

## **Michael T. Ullman**

Department of Neuroscience  
3970 Reservoir Road, NW  
Georgetown University  
Washington, DC 20057  
Tel: 202-687-6064 Fax: 202-687-6914  
Email: [michael@georgetown.edu](mailto:michael@georgetown.edu)

### **PERSONAL**

Born July, 1962 in San Francisco, California. US Citizen  
Languages: Fluent French.

### **EDUCATION**

Massachusetts Institute of Technology. 1993-1996.  
McDonnell-Pew Postdoctoral Fellow in Cognitive Neuroscience.  
Sponsors: Steven Pinker and Suzanne Corkin.  
Primary research interest: The neural bases of language.

Massachusetts Institute of Technology. 1988-1993.  
Ph.D. from the Department of Brain and Cognitive Sciences.  
Dissertation (1993): The Computation of Inflectional Morphology.  
Advisor: Steven Pinker. Committee: Susan Carey, Michael Jordan, Alan Prince.  
Research interests: The acquisition, computation and neural bases of morphology.

Harvard University. 1986-1988.  
BA in Computer Science. Advisor: William Woods.  
Harvard College Scholarship. Graduated Cum Laude.  
Primary research interest: Natural language processing.

NOTE: From June 1982 to August 1986 I took leave from Harvard  
in order to help found Data Acquisition Systems, a start-up computer company  
(3 years), and then to travel in Africa and Asia (1 year).

Harvard University. 1980-1982.  
Concentration in Biochemistry. Primary research interest: Molecular genetics.

## **PROFESSIONAL**

Professor, Dept of Neuroscience, Georgetown University. 2008-present.

Associate Professor (tenured), Dept of Neuroscience, Georgetown University. 2002-2008.

Assistant Professor, Georgetown University. 1996-2002.

Dept of Neuroscience. 1999-2002.

Institute for Cognitive and Computational Sciences. 1996-1999.

Founding co-Director, Center for the Brain Basis of Cognition (cbbc.georgetown.edu), Georgetown University. 2003-present.

Founding Director, Georgetown Cognitive Neuroscience EEG/ERP Center (Georgetown University Core Facility for Human Neuro-Electrophysiology). 1998-present.

Founding Director, Brain and Language Laboratory (brainlang.georgetown.edu). 1996-present.

Secondary Appointment, Department of Psychology, Georgetown University. 2001-present.

Secondary Appointment, Department of Neurology, Georgetown University. 2000-present.

Secondary Appointment, Department of Linguistics, Georgetown University. 1998-present.

Faculty, Interdisciplinary Program in Neuroscience, Georgetown University. 1996-present.

Faculty, Program in Cognitive Neuroscience, Georgetown University. 1996-present.

Faculty, Georgetown University-NIH Partnership Program. 2006-present.

Faculty, Complementary and Alternative Medicine Program, Georgetown, 2007-present.

Faculty, Science of Effective Early Childhood Education Program, Georgetown, 2007-present

Faculty, Center for Aphasia Research and Rehabilitation, Georgetown University, 2007-present.

Faculty, Center for the Study of Sex Differences, Georgetown University. 2005-present.

Faculty, Center for Neural Injury and Recovery, Georgetown University. 1999-present.

Faculty, Center for Brain Plasticity and Recovery, Georgetown University. 2013-present.

Associate, Centre for Literacy and Multilingualism, University of Reading, UK. 2013-present.

Associate, Centre for Research in Language Education, University of Greenwich, UK. 2014-present.

## **FELLOWSHIPS AND AWARDS**

Golden Apple Award, 2011. Teacher of the Year, from the Class of 2013 Medical Students, Georgetown Medical School.

Presidential Columnist for American Psychological Society Observer. 2005

McDonnell-Pew Postdoctoral Fellowship in Cognitive Neuroscience. 1993-96

Poitras Predoctoral Fellowship. 1992-93

Office of Naval Research Graduate Fellowship. 1988-91

McDonnell Summer Institute in Cognitive Neuroscience, Dartmouth College. 1990

Japan Association for Mathematical Sciences (JAMS) Scientific Seminar, Nagano, Japan. 1989

Harvard College Scholarship. 1987-88

## **PROFESSIONAL SOCIETIES**

Associate, Behavioral and Brain Sciences. 1999-present.

American Association for the Advancement of Science. 1996-present.

American Psychological Society. 1995-present.

Cognitive Neuroscience Society. 1994-present.

Society for Neuroscience. 1993-present.

## **EDITORIAL AND ADVISORY BOARDS: JOURNALS**

*Jordanian Journ. of Computers & Information Technology*. 2015-pres.. (Internat'l Advisory Board)

*PLOS ONE*. 2014-present.

*Linguistic Approaches to Bilingualism*. 2010-present.

*Cognitive Sciences*. 2003-present.

*Journal of Cognitive Neuroscience* (Associate Editor). 2000-present

*Bilingualism: Language and Cognition*. 2003-2007

*Cognition*. 1999-2002

## **EDITORIAL AND ADVISORY BOARDS: OTHER**

de Gruyter – Versita joint book publishing program in linguistics. Editorial Advisory Board. 2010-present.

The Routledge Encyclopedia of Second Language Acquisition. Editor: P. Robinson. Editorial Advisory Board. 2010-2012.

## **SCIENTIFIC COMMITTEES**

Architectures and Mechanisms for Language Processing (AMLaP). 2006.

## **POLICY COMMITTEES**

Policy Work Group on Recent NIH Decision to Address Over-Reliance of Male Cells and Animals in Biomedical Research. 2014.

## **REVIEWS: PAPERS FOR SUBMISSION TO JOURNALS**

Archives of Medical Research

Acta Psychologica

Bilingualism: Language and Cognition  
Brain  
Brain and Cognition  
Brain and Language  
Brain Research  
The Canadian Modern Language Review / La Revue canadienne des langues vivantes  
Cerebral Cortex  
Child Development  
Cognition  
Cognitive, Affective, & Behavioral Neuroscience  
Cognitive Brain Research  
Cognitive Neuropsychology  
Cognitive Science  
Cortex  
Current Directions in Psychological Science  
Experimental Brain Research  
Folia Phoniatica et Logopaedica  
Genes, Brain and Behavior  
Hippocampus  
International Journal of Bilingualism  
International Psychogeriatrics  
Journal of Child Language  
Journal of Cognitive Neuroscience  
Journal of Comparative Neurology  
Journal of Experimental Psychology: Learning, Memory and Cognition  
Journal of Memory and Language  
Journal of Neurolinguistics  
Journal of Neuroscience  
Journal of Speech, Language, and Hearing Research (JSLHR)  
Journal of the International Neuropsychological Society (JINS)  
Journal of Young Investigators  
Language  
Language and Cognitive Processes  
Language and Cognition  
Language and Linguistic Compass  
Language Learning

Linguistic Variation  
Modern Language Journal  
Nature  
Nature Neuroscience  
NeuroImage  
Neuropsychologia  
Philosophical Transactions of the Royal Society B: Biological Sciences  
Psychological Bulletin  
Psychological Review  
Psychophysiology  
Second Language Research  
Trends in Cognitive Sciences (TICS)

### **REVIEWS: PAPERS FOR PRESENTATION AT CONFERENCES**

BUCLD (Boston University Conference on Language Development)  
CUNY (City University of New York) Conference on Human Sentence Processing  
EUROSLA (Conference of the European Second Language Association)  
ICFLA2005 (International Conference on First Language Attrition)  
NELS (Northeast Linguistics Society)  
WCCFL (West Coast Conference on Formal Linguistics)

### **REVIEWS: BOOKS AND BOOK CHAPTERS**

*The Cognitive and Biological Basis for Linguistic Structure: New Approaches and Enduring Themes.* Elsevier.

*Language Production.* Oxford.

*Handbook of Brain Theory and Neural Networks.* 2<sup>nd</sup> Edition. MIT Press.

*Handbook of Second Language Acquisition.* Part of the series *Handbooks in Linguistics.* Blackwell.

*Theories of Developmental Disorders.* Blackwell.

*Handbook of Language Processing.* Blackwell.

*Brain and Language.* Elsevier.

### **REVIEWS: COMPETITIONS**

Junior Science and Humanities Symposium  
Student Research Days, Georgetown University

## **REVIEWS AND REVIEW COMMITTEES: GRANT PROPOSALS**

NIH NICHD Biobehavioral and Behavioral Sciences Study Section

NIH Risk, Prevention & Health Behavior Study Section

NIH Minority/Disability Predoctoral Fellowships Study Section

NIH Fogarty International Brain Disorders Study Section

NIH NIDCD Study Section (Special Emphasis Panel)

NIH Pilot Grants for NIA 5K07AG019165

NIH Adult Psychopathology and Disorders of Aging Study Section (APDA)

NSF Behavioral Neuroscience Program

NSF Cognitive Neuroscience Program

NSF Human Cognition and Perception Program

NSF Linguistics Program

NSF Perception, Action and Cognition Program

Dutch Social Science Research Council of the Netherlands Organization for Scientific Research

Israel Science Foundation

Italian Ministry for Education University and Research (MIUR) Grant Review Committee

Wellcome Trust

Alzheimer's Association

Simons Foundation

Max Planck Partner Group

Dean for Research Toulmin Pilot Project Awards and 6th cycle of Partners in Research Awards,  
Georgetown University

## **REVIEWS: PROGRAMS AND INSTITUTIONS**

Panel Member, Independent Technical Review of TTR 3501 at the Center for the Advanced Study of Language (CASL), for the National Center for Language and Culture Research (NCLCR).

## **CONSULTANCIES**

NIH Bioengineering Consortium (BECON) Symposium

## **MODERATOR AT CONFERENCES, MEETINGS**

Brain Studies. Meeting organized by the Georgetown University Italian Research Institute, in collaboration with the Italian Embassy. Georgetown University, 2014.

## **MEDIA INTERVIEWS AND STORIES**

*Print:* New York Times; US News and World Report; USA Today; Daily Telegraph (UK); Georgetown Medicine; Dallas Morning News; Washington Post; New Scientist; Science News; Science Daily; Junior (UK); Science; United Press International (UPI); Wired.

*Radio:* National Public Radio (Richard Knox interview); Lillian Brown show (WAMU/NPR); Georgetown University Forum Radio Show; Diane Rehm Show

*Television:* Voice of America Indonesia; AARP (American Association of Retired Persons); Korean Broadcasting Service; Korean Education Broadcasting System; Fox5 Morning News; Science Central News / ABC; History Channel.

## **SYMPOSIA, WORKSHOPS, CONFERENCES: ORGANIZED AND CHAIRED**

*The Neurocognition of Language and Memory: Retention, Attrition, and Aging.* A CBBC [Center for the Brain Basis of Cognition] Workshop (2008). Georgetown University, Washington, DC. Organizers of Conference: C. Sanz and M.T. Ullman. Invited speakers: Peggy McCardle (NICHD); Russell Poldrack (UCLA), Monika Schmid (Rijksuniversiteit Groningen, Netherlands), Darlene Howard and James Howard (Georgetown University and Catholic University, Washington DC), Christophe Pallier (CNRS, Paris), Avi Karni (University of Haifa, Israel), Kara Morgan-Short, Cristina Sanz and Michael Ullman (University of Illinois, Chicago, and Georgetown University).

*The Neurocognition of Developmental Language Disorders.* A CBBC Workshop (2007). Georgetown University, Washington, DC. Organizers of Conference: C. Sanz and M.T. Ullman. Invited speakers: Angela Friederici (Max Planck, Leipzig), Marc Joanisse (Western Ontario), Mabel Rice (Kansas), Michael Ullman (Georgetown), Faraneh Vargha-Khadem (University College London), Susan Ellis Weismer (Madison-Wisconsin).

*The Neurocognition of Second Language.* A CBBC Workshop (2006). Georgetown University, Washington, DC. Organizers of Conference: C. Sanz and M.T. Ullman. Invited speakers: Angela Friederici (Max Planck, Leipzig), Judith Kroll (Penn State), Alison Mackey (Georgetown), Brian MacWhinney (Carnegie Mellon), Michel Paradis (McGill), Cristina Sanz (Georgetown), Michael Ullman (Georgetown).

*Perspectives on the Cognitive and Neural Bases of Lexicon, Semantics, and Grammar.* Annual Meeting of the McDonnell-Pew Program in Cognitive Neuroscience (2000). Durham, NC. Organizer and Chair: M.T. Ullman. Invited speakers: Peter Hagoort (Max Planck, Nijmegen), Maryellen MacDonald (U. of Southern California), Alec Marantz (MIT), Michael Ullman (Georgetown).

*The Functional Neuroanatomy of Second Language Acquisition and Processing*. American Association for Applied Linguistics (AAAL) Annual Convention (2000). Vancouver. Organizer and Chair: M.T. Ullman. Invited speakers: Helen Neville (U. of Oregon), Michel Paradis (McGill), Michael Ullman (Georgetown).

*Neuropsychology of Memory*. Theoretical and Experimental Neuropsychology / Neuropsychologie Experimentale et Theorique (TENNET VIII) (1997). Montreal. Organizer and Chair: M.T. Ullman. Invited speakers: Barbara Knowlton (UCLA), Randy Buckner (Harvard), Mortimer Mishkin (NIH), Michael Ullman (Georgetown).

## **INVITED TALKS: PROFESSIONAL MEETINGS**

Language, memory, and brain: Language, memory, and brain: A cognitive neuroscience perspective on first and second language. Keynote lecture at Daegu-Gyeonbuk Institute of Science and Technology (DGIST) Global Innovation Festival (DGIF). Daegu-Gyeonbuk Institute of Science and Technology, Daegu, Korea. 2016.

Language, memory, and brain: The role of learning and memory brain systems in first and second language. Keynote lecture at SOS Dislessia, Pisa, Italy. 2016.

Language, memory, and brain: The role of learning and memory brain systems in first and second language. Psycho- and Neurolinguistic Approaches to the Grammar-Lexicon Distinction. Workshop in Copenhagen, Denmark. 2015.

Language, memory, and brain: The role of learning and memory brain systems in first and second language. Fifth International Conference on Foreign Language Teaching and Applied Linguistics. Sarajevo, Bosnia and Herzegovina. 2015.

Language, memory, and brain: The role of long-term memory systems in first and second language. Second Language in the Brain: Instruction, Immersion, Interaction. Centre for Research in Language Education, University of Greenwich, Greenwich, UK. 2014.

Language, memory, and brain: Do we learn language in the same brain systems that rats use to learn a maze? EBRAMUS: Europe, BRAin and MUSic. University of Pavia, Pavia, Italy. 2013.

SLI, dyslexia, autism, and other neurodevelopmental disorders: Insights from procedural and declarative memory. Keynote address, Neurocognition of Developmental Disorders Affecting Language. Workshop organized by the British Academy and Newcastle University. Newcastle Upon Tyne, UK. 2013.

Do we learn language in the same brain systems that rats use to learn a maze? Invited lecture at the "Learning from Cells to Society" workshop. Interdisciplinary Program in Cognitive Science. Georgetown University. Washington DC. 2013.



A multidisciplinary investigation of the neurocognition of first and second language. Keynote lecture at the Cyprus Acquisition Team conference (Three factors and beyond: the socio-syntax of (a)typical language acquisition and development), University of Cyprus, Nicosia, Cyprus. 2012.

Learning and memory in the human brain. Invited lecture at annual meeting of the board of the American Dental Education Association (ADEA), Georgetown University. 2012.

A multidisciplinary investigation of the neurocognition of second language. Keynote lecture at Memory and Second Language Acquisition, International Seminar Roundtable, Hong Kong University of Science and Technology. Hong Kong. 2012.

Learning and memory in the human brain. Workshop at Memory and Second Language Acquisition, International Seminar Roundtable, Hong Kong University of Science and Technology. Hong Kong. 2012.

A multidisciplinary investigation of the neurocognition of first and second language. Keynote lecture at the International Workshop on Brain, Cognition and Learning, China National Convention Center, Beijing, China. 2012.

Brain commonalities across developmental disorders. Keynote lecture at Special Developmental Psychopathology Seminar, Neuroscience Research Institute's Developmental Psychopathology Group, University of Manchester, Manchester, United Kingdom. 2012.

Individual and group differences in declarative and procedural memory: The impact on normal and disordered language acquisition and processing. Invited lecture at the Conference on Sources of Individual Linguistic Differences, Ottawa, Canada. 2012.

A multidisciplinary investigation of the neurocognition of second language. Keynote lecture at the International Seminar on Language Acquisition (SIAL), Porto Alegre, Brazil. 2011.

A multidisciplinary investigation of the neurocognition of language. Plenary lecture at New Trends on Experimental Psycholinguistics, Madrid, Spain. 2011.

Brain, memory and second language. Keynote lecture at the UIC Bilingualism Forum. University of Illinois at Chicago, Chicago, IL. 2011.

What Rats can tell us about Language: Contributions of Declarative and Procedural Memory to Language. Keynote lecture University of North Carolina, Chapel Hill Annual Linguistics Colloquium. Chapel Hill, NC. 2011.

What rats can tell us about language. Plenary talk at the 5th Linguistics and Cognition Conference: Minds in Interaction. Federal University of Santa Catarina, Florianopolis, Brazil. 2010.

What rats can tell us about language. Invited talk at "Neurocognitive Contributions to Bilingualism", Science of Aphasia (SOA) XI. Potsdam, Germany. 2010.

What rats can tell us about language: Contributions of Declarative and Procedural Memory to Language. The Linguistic Association of Canada McMaster University, Hamilton, Ontario. 2010.

Memory, language, brain and sex. Keynote address at NELS (North East Linguistic Society). MIT, Cambridge, MA. 2009.

Declarative and procedural memory in first and second language. Keynote address at Fifth Rovereto Workshop on Bilingualism:Neurobilingualism: Bilingual functioning from infancy to adulthood. Bangor, Wales, UK. 2009.

Neurocognitive Bases of Language and Music. Learning and the Brain Conference. The Johns Hopkins University School of Education and the Dana Alliance for Brain Initiatives. Washington, DC. 2009.

Declarative and procedural memory in first and second language. Keynote address at Georgetown University Round Table on Languages and Linguistics (GURT) 2009, “The implicit/explicit dichotomy in SLA/Bilingualism: Conditions, processes and knowledge”, Georgetown University. 2009.

Contributions of Memory Brain Systems to Language: Implications for Autism. Invited talk at the Nancy Lurie Marks Family Foundation, Wellesley, MA. 2008.

Memory, Brain and Second Language. Invited talk CLIL Fusion: Multilingual Mindsets in a Multicultural World – Building quality learning communities. Tallinn, Estonia. 2008.

Plasticity, memory and language. Invited lecture at Second International Symposium on the Cognitive and Neuronal Bases of Language: Mechanisms of Learning, Brain Plasticity, and Critical Periods, McGill University, Montreal, Canada. 2008.

Language and the declarative and procedural memory systems. Invited lecture at the International Congress of Psychology, Berlin, Germany. 2008.

The dependence of language on long-term memory systems: What do we know and how do we know it? Invited talk at the International Collaborative Workshop on Language Attrition, Groningen, Netherlands. 2008.

Memory, brain and second language. Invited talk at the Annual Meeting of the American Association for Applied Linguistics (AAAL), Washington, DC. 2008.

Variability and redundancy in the neurocognition of language. Invited lecture at the 30<sup>th</sup> Anniversary of the Deutsche Gesellschaft für Sprachwissenschaft (DGfS), Bamberg, Germany. 2008.

The neurocognition of second language: new evidence from training and aptitude. Invited lecture at “Language Processing in First and Second Language Learners”, Max Planck Institute for Psycholinguistics, Nijmegen, Netherlands. 2007.

Language attrition and the contributions of memory brain systems to second language. Invited lecture at “Language attrition: a corroborating perspective for theory-forming in SLA”. Round table preceding the 17th Annual Conference of the European Second Language Association (EUROSLA). Newcastle, United Kingdom. 2007.

Contributions of memory brain systems to first and second language. Invited lecture at the Ninth Nordic Meeting in Neuropsychology, Gothenburg (Göteborg), Sweden, 2007.

Contributions of memory brain systems to first and second language. Plenary lecture at the XIXth International Conference on Foreign / Second Language Acquisition: Neurolinguistic Perspectives on Language Acquisition and Learning, Szczyrk, Poland, 2007.

Procedural memory in developmental language impairment. Talk at The Neurocognition of Developmental Language Disorders. A Center for the Brain Basis of Cognition (CBBC) Workshop. Georgetown University, Washington DC. 2007.

Sex differences in brain and language. Learning and Brain Conference. Mind, Brain & Education Program, Harvard University; Neuroscience Institute, UC Santa Barbara; and the Dana Alliance for Brain Initiatives. Harvard University, Cambridge, MA. 2007.

The role of memory brain circuits in first and second language acquisition and processing. Keynote speaker at The Architecture of Language: From Cognitive Modeling to Brain Mapping and Back. Satellite conference of the 12<sup>th</sup> annual Human Brain Mapping meeting. Pisa, Italy. 2006.

Contributions of memory brain systems to first and second language. Talk at The Neurocognition of Second Language. A Center for the Brain Basis of Cognition (CBBC) Workshop. Georgetown University, Washington DC. 2006.

The role of memory circuits in learning, processing and forgetting in first and second language. Keynote speaker at Graduate Workshop on Theoretical Models in Language Attrition Research, UV Amsterdam; Amsterdam, Netherlands. 2006.

The contribution of brain memory circuits to first and second language acquisition and processing. Invited lecture at “Language Processing in First and Second Language Learners” Workshop, funded by the European Science Foundation, at Wivenhoe House, Colchester, UK. 2004.

The contribution of memory circuits to language: The declarative/procedural model. Keynote speaker at “Linguistics and the study of the mind”. Symposium at the Utrecht institute of Linguistics OTS, in honor of the change of directorship of the institute. Utrecht, Netherlands. 2004.

Is Broca’s area part of a frontal/basal-ganglia procedural memory circuit? Talk at “Perception, action, syntax and the brain: Broca’s area and ventral premotor cortex in sensorimotor mapping and language.” Workshop at the Max Planck Institute of Cognitive Neuroscience. Leipzig, Germany. 2003.

A neurocognitive perspective on second language acquisition and processing: The declarative/procedural model. Invited lecture at “The cognitive neuroscience of second language acquisition: new insights on the bilingual brain”. Round table preceding the 13th Annual Conference of the European Second Language Association (EUROSLA). Edinburgh, Scotland. 2003.

The declarative/procedural model: A neurocognitive perspective on first and second language acquisition and processing. Invited Lecture in Symposium “Cognitive Control and Bilingualism”. Colloquium organizers: Jan Hulstijn (University of Amsterdam) & Norman Segalowitz (Concordia University Montreal). Fourth International Symposium on Bilingualism. Tempe, Arizona. 2002.

Language, memory and the brain. Invited Lecture at the 25th Annual Symposium: "The Brain and Behavior". Carnegie Institution of Washington, Department of Embryology. Baltimore, MD. 2002.

Neural circuits of second language acquisition and processing. Invited Lecture at the American Association of Applied Linguistics 2002 Annual Convention. Salt Lake City, Utah. 2002.

The declarative/procedural model of language: Evidence from regular and irregular morphology. Talk in Symposium and debate “Brain Systems Underlying Language Processing: The Continuing Past Tense Debate”. Other speakers: Steven Pinker (MIT), Jay McClelland (Carnegie Mellon), Karalyn Patterson (MRC Cognition and Brain Sciences Unit. UK). Ninth Annual Meeting of the Cognitive Neuroscience Society Meeting. San Francisco, CA. 2002.

The dependence of lexicon and grammar upon declarative and procedural memory. Talk at the Annual Meeting of the McDonnell-Pew Program in Cognitive Neuroscience. Durham, NC. 2000.

The declarative/procedural model of language: evidence from morphology. Invited Lecture at the Annual Meeting of the Northeastern Linguistics Society (NELS). Georgetown University, Washington DC. 2000.

The declarative/procedural model of lexicon and grammar. Invited Lecture at the Language and Mind Forum. University of Southern California. 2000.

The brain bases of lexicon and grammar in L1 and L2. Invited Lecture at the American Association of Applied Linguistics 2000 Annual Convention. Vancouver, Canada. 2000.

Psychological and neural bases of morphology. Invited Lecture at the Mayfest on Morphology. University of Maryland. College Park, MD. 1999.

The functional neuroanatomy of end-state first and second language. Invited Lecture at the Annual Meeting of the American Association of Applied Linguistics. Stamford, CT. 1999.

Lexical memory is part of declarative memory, grammatical rules are processed by procedural memory. Invited Lecture at the Workshop on Cognitive Neuroscience: How can cognitive neuroscience impact the design of cognitive architectures? Woods Hole, MA. Hosted by the Cognitive and Neural Science and Technology Division of the Office of Naval Research. 1997.

Neural bases of language: Evidence from inflectional morphology. Invited Lecture at the McDonnell-Pew Program in Cognitive Neuroscience Annual Meeting, Tucson, AZ. 1995.

## **INVITED TALKS AT INSTITUTIONS**

Sex differences in memory and language. Gender Justice Initiative Colloquium. Georgetown University, Washington DC. 2016.

Language, memory, and brain: Learning and memory brain systems in first and second language. Potsdam Research Institute for Multilingualism, University of Potsdam, Potsdam, Germany. 2016.

Language, memory, and brain: The role of learning and memory brain systems in first and second language. CUNY Graduate Center, New York, New York. 2016.

Language, memory, and brain: The role of learning and memory brain systems in first and second language. University of Padova, Padova, Italy. 2016.

Sex differences in language, brain and mind. Junior Science & Humanities Symposium, Greater Washington Metropolitan Area. Washington DC. 2016.

Language, memory, and brain: The role of learning and memory brain systems in first and second language. Lund University, Lund, Sweden. 2015.

Language, Memory and Brain: The role of learning and memory brain systems in first and second language. University of Geneva, Geneva, Switzerland. 2015.

Brain commonalities across neurodevelopmental disorders. Linguistics Lecture Series. Stony Brook University, New York. 2014.

Do we learn language in the same brain systems that rats use to learn a maze? Linguistics Lecture Series. Stony Brook University, New York. 2014.

Language, Memory and Brain: Do we learn language in the same brain systems that rats use to learn a maze? Rutgers University, New Brunswick, NJ. 2014.

Do we learn language in the same brain systems that rats use to learn a maze? Evidence from a multidisciplinary investigation of first and second language. Center for Language Acquisition, Penn State, University Park, PA. 2013.

Do we learn language in the same brain systems that rats use to learn a maze? Evidence from a multidisciplinary investigation of first and second language. l'Institut des sciences cognitives, L'Université du Québec à Montréal (UQAM). 2013.

Do we learn language in the same brain systems that rats use to learn a maze? Evidence from a multidisciplinary investigation of first and second language. National University of Singapore. Singapore. 2013.

Brain commonalities across neurodevelopmental disorders. Saint Peter's University Hospital, Drexel University. New Brunswick, NJ. 2013.

An overview of the research in the Brain and Language Lab. Neurobreakfast, Department of Neuroscience, Georgetown University. 2013.

A multidisciplinary investigation of the neurocognition of first and second language. Northern Illinois University PI Academy for Research and Engagement, and the NIU Center for the Interdisciplinary Study of Language and Literacy. Northern Illinois University, DeKalb, Illinois. 2013.

Do we learn language in the same brain systems that rats use to learn a maze? The Roxelyn & Richard Pepper Department of Communication Sciences and Disorders Northwestern University. Chicago, Illinois. 2013.

A multidisciplinary investigation of the neurocognition of first and second language. Carnegie Mellon University/Pittsburgh Science of Learning Center. Pittsburgh, Pennsylvania. 2013.

A multidisciplinary investigation of the neurocognition of first and second language. Inaugural Lecture for the Neuroscience Network of East Tennessee Spring Speak Series, University of Tennessee, Knoxville. 2013.

Questions and methods in cognitive neuroscience. Boğaziçi University (Bosphorus University), Istanbul, Turkey. 2012.

A multidisciplinary investigation of the neurocognition of first and second language. Boğaziçi University (Bosphorus University), Istanbul, Turkey. 2012.

A multidisciplinary investigation of the neurocognition of first and second language. University of Zurich, Zurich, Switzerland. 2012.

Sex differences in language, brain and mind. Junior Science & Humanities Symposium, Greater Washington Metropolitan Area. Washington DC. 2012.

A cognitive neuroscience perspective on developmental disorders. Universidade Federal do Rio Grande do Sul (UFRGS), Porto Alegre, Brazil. 2011.

Contributions of declarative and procedural memory to language. Centro de Memória, Instituto do Cérebro, Pontifícia Universidade Católica do Rio Grande do Sul (PUCRS), Porto Alegre, Brazil. 2011.

Brain, memory and second language. Invited Lecture, Department of Technology, The University of Pompeu Fabra, Barcelona, Spain. 2011.

Contributions of declarative and procedural memory to language: Implications for sex differences, development disorders, and second language acquisition. Invited Lecture, Bellvitge Health Science Campus at the University of Barcelona, Bellvitge Hospital in Hospitalet de Llobregat, Barcelona, Spain. 2011.

Contributions of declarative and procedural memory to language. Invited lecture, State Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University, Beijing, China. 2011.

The dependence of language on long-term memory brain systems: Implications for developmental disorders. Invited Lecture, University of Maryland, College Park, MD. 2011.

Sex differences in language, brain and mind. Junior Science & Humanities Symposium, Greater Washington Metropolitan Area. Washington DC. 2011.

Contributions of declarative and procedural memory to language. Invited lecture, Cognitive Science Colloquium, Tufts University, Washington DC. 2010.

What rats can tell us about language: Contributions of declarative and procedural memory to language. Invited Lecture, Language & the Neurosciences Seminar, Universidade Católica de Pelotas, Pelotas, Brazil. 2010.

What rats can tell us about language: Contributions of declarative and procedural memory to language. Invited Lecture, Pontifícia Universidade do Rio Grande do Sul (PUCRS), Porto Alegre, Brazil. 2010.

Brain, Memory and Second Language. Invited lecture, Round-Table: Developments in the neuroscience of language, Federal University of Santa Catarina, Florianopolis, Brazil. 2010.

A role for declarative and procedural memory in normal and disordered language. Invited lecture, Division of Child and Adolescent Psychiatry and the Center for Child and Human Development, Georgetown University, Washington DC. 2010.

What rats can tell us about language: A role for declarative and procedural memory in normal and disordered language. Invited lecture, Department of Psychiatry Grand Rounds, Georgetown University, Washington DC. 2010.

A role for declarative and procedural memory in normal and disordered language. Invited lecture, Indiana University School of Medicine, Indianapolis, Indiana. 2010.

The Bilingual Brain. Invited lecture, German Center for Research and Innovation, New York, NY. 2010.

A role for declarative and procedural memory in normal and disordered language. Invited lecture, Hearing and Speech Sciences Seminar Series. University of Maryland, College Park, MD. 2010.

The role of memory brain circuits in language. Invited lecture, Shaare Zedek Medical Center, Jerusalem, Israel. 2010.

The Contribution of Declarative and Procedural Memory to First and Second Language. Invited lecture, Haifa Language Forum, Brain Research Center and Learning Disabilities, University of Haifa, Haifa, Israel. 2010.

The role of memory brain circuits in language. Invited lecture, Laboratoire Dynamique Du Langage, Institut des Sciences de l'Homme, Lyon, France. 2010.

The Contribution of Declarative and Procedural Memory to First and Second Language. Invited lecture, CUNY Linguistics Colloquium Series, Department of Linguistics, CUNY Graduate Center, New York. 2010.

Declarative and procedural memory in developmental and adult onset disorders: Evidence from language. Invited lecture, Cognitive Neuroscience Lecture Series, National Institute of Neurological Disorders and Stroke. Bethesda, MD. 2010.

Sex differences in language, brain and mind. Junior Science & Humanities Symposium, Greater Washington Metropolitan Area. Washington DC. 2010.

Language and memory in disorders. Invited lecture, Hearing and Speech Sciences. University of Maryland, College Park. 2009.

Sex differences in language, brain and mind. Junior Science & Humanities Symposium, Greater Washington Metropolitan Area. Washington DC. 2009.

Sex differences in the neurocognition of language. Invited lecture at the Department of Language and Linguistics, University of Essex, Colchester, United Kingdom. 2008.

Contributions of memory circuits to first and second language. Invited lecture at the Ecole Normale Supérieure, Paris, France. 2008.

Contributions of memory circuits to first and second language. Invited lecture at the Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany. 2008.

Brain, memory and language. Invited lecture at the University of Delaware Linguistics Colloquium Series, University of Delaware, Newark, Delaware. 2008.

Sex differences in language, brain and mind. Junior Science & Humanities Symposium, Greater Washington Metropolitan Area. Washington DC. 2008.



Contributions of Memory Systems to Language. Invited lecture at the National Institute of Mental Health, Bethesda, MD. 2007.

Autism and language: some recent theoretical and empirical developments. Invited lecture at the Autism Research Network Meeting, Kennedy Krieger Institute, Baltimore, MD. 2007.

Contributions of memory brain systems to first and second language. Speech and Hearing Sciences, CUNY Graduate School, New York, New York. 2007.

Contributions of memory brain systems to first and second language. Gorski Lecture. Penn State, University Park, PA. 2007.

Sex differences in language, brain and mind. Junior Science & Humanities Symposium, Greater Washington Metropolitan Area. Washington DC. 2007.

Contributions of memory brain systems to first and second language. Ospedale Pediatrico Bambino Gesù. Rome, Italy. 2006.

Contributions of memory brain systems to first and second language. Vita-Salute San Raffaele University, Milan, Italy. 2006.

Contributions of memory brain systems to first and second language. University of Haifa, Haifa, Israel. 2006.

What the brain can tell us about language: Contributions of memory systems to first and second language. Plenary Presentation at the Interagency Language Roundtable (ILR), Foreign Service Institute, Arlington, VA. 2006.

The contribution of declarative and procedural memory to first and second language. Department of Psychology, University of Richmond, Richmond, VA. 2006.

The contribution of declarative and procedural memory to first and second language. Department of Neuroscience, University of Uppsala, Uppsala, Sweden. 2006.

Specific Language Impairment is not specific to language: A neurocognitive perspective. Department of Neuroscience, University of Uppsala, Uppsala, Sweden. 2006.

The contribution of brain memory circuits to first and second language. Cognitive Neurology group, The Johns Hopkins University, Baltimore, MD. 2006.

The role of declarative and procedural memory in first and second language. Max Planck Institute for Psycholinguistics. Nijmegen, Netherlands. 2006.

Sex differences in language, brain and mind. Junior Science & Humanities Symposium, Greater Washington Metropolitan Area. Washington DC. 2006.

A biocognitive approach to improve adult language learning. MITRE. Reston, VA. 2005.

Specific Language Impairment is not specific to language: A neurocognitive perspective. Kinesiology Department, University of Maryland, College Park, MD. 2005.

Neural circuits of language. Neurology Grand Rounds, Veteran's Administration Hospital. Washington DC. 2005.

Sex differences in language, brain and mind. Junior Science & Humanities Symposium, Greater Washington Metropolitan Area. Washington DC. 2005.

The contribution of brain memory circuits to first and second language. Psychology Department Colloquia Series. Department of Psychology, Georgetown University, Washington DC. 2004.

The contribution of brain memory circuits to first and second language. Psychology Department and the Center for Advanced Study of Language, University of Maryland, College Park MD. 2004.

A new perspective on developmental language disorders. Department of Neuroscience, Georgetown University, Washington DC. 2004.

The contribution of memory circuits to language: the declarative/procedural model. Psychology Department, NYU, New York, New York. 2004.

The neurocognition of second language acquisition and processing. Developmental Brown-Bag Colloquium. Psychology Department, George Mason University, Fairfax, Virginia. 2004.

Specific Language Impairment is not specific to language: A neurocognitive perspective. Keynote lecture in "Progress in the Neuropsychology of Cognitive Function" lecture series. Psychology Department, Catholic University, Washington DC. 2004.

Sex differences in language, brain and mind. Junior Science & Humanities Symposium, Greater Washington Metropolitan Area. Washington DC. 2004.

Sex differences in the neurocognition of language. Department of Experimental Psychology, Oxford University, Oxford, England. 2003.

Sex differences in the neurocognition of language. Centre for Developmental Language Disorders & Cognitive Neuroscience, Department of Human Communication Science, University College London, London, England. 2003.

Sex differences in the neurocognition of language. Language Symposium. Hosted by the Plasticity of Language Research Group, in the Children's Research Institute's Center for Neuroscience, Children's National Medical Center. Washington DC. 2003.

Sex differences in language, brain and mind. Junior Science & Humanities Symposium, Greater Washington Metropolitan Area. Washington DC. 2003.

Sex differences in language, brain and mind. Provost's Seminar. Georgetown University, Washington DC. 2002.

A neurocognitive model of language. Mental Retardation and Developmental Disability Research Center (MRDDRC) seminar. Children's National Medical Center, Washington DC. 2002.

Memory or rule? Sex differences in the neurocognition of language. Brain and Language Lecture Series. University of Pennsylvania, Philadelphia. 2002.

The declarative/procedural model of language: Extensions to sex differences and second language. IRCS, University of Pennsylvania, Philadelphia. 2001.

The declarative/procedural model of language: Extensions to sex differences and second language. University of Montreal, Montreal, Canada. 2001.

The declarative/procedural model of lexicon and grammar: Extensions to sex differences and second language. Cognitive Science Distinguished Lecture Series, Cognitive Science Program, Carleton University, Ottawa, Canada. 2001.

The declarative/procedural model of language: Extensions to sex differences and second language. SLATE series lecture, University of Illinois, Urbana-Champaign. 2001.

The declarative/procedural model of lexicon and grammar. Department of Linguistics, University of Maryland. College Park, MD. 2000.

The dependence of lexicon and grammar on declarative and procedural memory. Department of Linguistics, CUNY. New York, NY. 2000.

The declarative/procedural model of lexicon and grammar. Brain and Language Lecture Series. University of Pennsylvania. Philadelphia, PA. 1999.

The role of memory circuits in the recovery of language after neural injury. Center for Neural Injury and Recovery, Georgetown University Medical Center. Washington, DC. 1999.

The dependence of lexicon and grammar upon declarative and procedural memory. Moss Rehabilitation Center and Temple University. Philadelphia, PA. 1999.

The contribution of two memory systems to language. Brain and Language Discussion Group. Institute for Research in Cognitive Science. University of Pennsylvania. Philadelphia, PA. 1999.

The neural correlates of lexicon and grammar. GICCS Faculty Retreat. Evans Farm Inn, VA. (Note: Voted as best presentation.) 1999.

The neural, psychological, and computational bases of lexicon and grammar. National Institute of Mental Health. NIH, Bethesda, MD. 1999.

The neural bases of lexicon and grammar. Neuroscience Focus Team. MITRE. Reston, VA. 1999.

Do neural memory circuits play a role in human language?. Center For Developmental Cognitive Neuroscience. Eunice Kennedy Shriver Center. Waltham, MA. 1998.

The contribution of two memory systems to language. University of Maryland, College Park, MD. 1998.

A role for declarative and procedural memory in language. West Virginia University, Morgantown, WV. 1998.

A role for declarative and procedural memory in language. Interdisciplinary Program in Neuroscience. Georgetown Medical Center, Georgetown University, Washington, DC. 1997.

A role for declarative and procedural memory in language. Psychology Department, University of Oregon, Eugene, OR. 1997.

Distinct brain systems underlie language: Evidence from Alzheimer's, Parkinson's and Huntington's diseases. Research Imaging Center, University Of Texas Health Science Center, San Antonio, TX. 1997.

How the brain processes language: Evidence from Alzheimer's and Parkinson's diseases. Physiology Dept., Georgetown University, Washington DC. 1997.

A neural dissociation within language: Lexical memory is a part of declarative memory, grammatical rules are processed by the procedural system. The Massachusetts General Hospital Nuclear Magnetic Resonance Imaging Center, Charlestown, MA. 1996.

A neural dissociation within language: Lexical memory is a part of declarative memory, grammatical rules are processed by procedural system. Keck Center, UC San Francisco. 1996.

The neural bases of language. UC Davis, Davis, CA. 1996.

A neural dissociation within language: Lexical memory is a part of declarative memory, grammatical rules are processed by the procedural system. Institute for Cognitive and Computational Sciences, Georgetown University, Washington DC. 1996.

Evidence for a neural dissociation within language: Lexical memory is a part of temporal lobe declarative memory; grammatical rules processed by frontal/basal-ganglia procedural system. Max Planck Institute for Psycholinguistics, Nijmegen, Netherlands. 1996.

Evidence for a neural dissociation within language: Lexical memory is a part of temporal lobe declarative memory; grammatical rules processed by frontal/basal-ganglia procedural system. Brain and Language Group, MIT, Cambridge, MA. 1996.

A neural dissociation within language: Lexicon a part of declarative memory, grammar processed by procedural system. Laboratory in Cognitive Neuropsychology, Psychology Department, Harvard University, Cambridge, MA. 1995.

The neural bases of language: Evidence from stroke-lesioned aphasics and patients with neurodegenerative diseases. The Cognitive Sciences Colloquium: The Department of Philosophy and the Cognitive Sciences program, McGill University, Montreal, Quebec. 1995.

Inflectional morphology in hereditary specific language impairment. The Department of Linguistics, McGill University, Montreal, Quebec. 1995.

Localization of linguistic function: Evidence from focal lesions and neuro-degenerative diseases. PET Imaging Laboratory, Department of Neurology, Washington University Medical School, St. Louis, Missouri. 1994.

A hereditary case of Specific Language Impairment: Results from inflectional morphology. The Laboratory of Behavioral Neurosciences, MIT, Cambridge, MA. 1994.

The neural bases of language: Evidence from inflectional morphology. Department of Cognitive Science, The Johns Hopkins University, Baltimore, MD. 1994.

The neural bases of language: Evidence from inflectional morphology. Department of Psychology, Cornell University, Ithaca, NY. 1994.

Review and critique of PET language studies, and a proposed MRI language study. The MIT Brain and Cognitive Sciences PET Seminar Series, MIT, Cambridge, MA. 1992.

An in-depth study of a linguistic subsystem: inflection. The Nuclear Magnetic Resonance Center at Massachusetts General Hospital, Charlestown, MA. 1992.

Connectionism and language. The Brown University Neural Network Modeling Colloquium. Brown University, Providence, RI. 1991.

## **UNIVERSITY SERVICE AT GEORGETOWN UNIVERSITY**

### Department of Neuroscience

Planning Group for the MS Neuroscience Core Course. 2016-present.

Brain Food Organizer (monthly science talks given by faculty). 2014.

Recruitment Committee. 2013.

Medical/Graduate Education Committee. 2005-2011.

Strategic Initiatives Committee. 2005-2009.

Executive Advisory Committee. 1999-2000, 2001-2003.

Faculty Search Committee. 2001-2003.

Information Technology Committee. 2000-2009.

Environment Committee. 2000-2002.  
Education Committee. 2000-2001.  
fMRI Steering Committee. 1999-2000.  
Library Committee. 1999-2000.

Georgetown Institute for Cognitive and Computational Sciences (GICCS)

Chair, Equipment Loan Allocation Committee. 1999.  
Magnetic Resonance Technology Committee / fMRI Steering Committee. 1996-1999.  
Information Technology Committee. 1996-1999.  
Library Committee. 1996-1999.  
Coordinator and liaison for design and construction of Human Cognitive Neuroscience laboratories. 1997.

Interdisciplinary Program in Neuroscience (IPN)

Minigrant advising. 2006-present.  
Student Advisory Committee. 2003-2011.  
Admissions Committee. 2001-2007, 2012-present.  
Curriculum Committee. 2001-2004.  
Interviewer of applicants to the IPN graduate program. 1997-present.

Center for Neural Injury and Recovery (CNIR)

Information Technology Committee. 1999-2000.

School of Medicine.

Committee on Appointments and Promotions. 2011-present.  
Research Committee. 2002-2004.  
Joint Oversight Council for Clinical Research. 2002-2004.  
Faculty senate representative to the search committee for the chair of Otolaryngology. 2001.  
Ad-hoc interviewer for the search committee for the chair of Neurology. 2001-2002.  
Library Committee. 1998-2000.  
Interviewer of applicants to the MD/PhD graduate program. 2000-present.

Campus-wide.

Founding committee for Georgetown Institute for Multilingual Studies (GIMS). 2012-2013.  
Founding committee for Georgetown program in cognitive neuroscience. 2012-2013.  
Main Campus Research Steering Committee. 2006-2010.  
Faculty Senate representative on the Search Committee for Dean of the Graduate School of Arts and Sciences. 2006.  
Center for Functional and Molecular Imaging (CFMI) Oversight Committee. 2006-present.  
Initiator and Head, Cross-campus initiative in neuroscience and cognition. 2005-present.  
Founding co-director (one of two), Center for the Brain Basis of Cognition (CBBC). 2003-present.  
Cognition and the Neurosciences Task Force. 2002.  
fMRI Steering Committee. 2001-2002.

Co-Chair, Committee for the evaluation and funding of an interdisciplinary educational and research program in second language acquisition and processing. 2001.

Founder and Director, Georgetown Cognitive Neuroscience EEG/ERP Laboratory

(Georgetown University Core Facility for Human Electrophysiology). 1998-present.

*1998-2005.* Set up and directed lab containing 96-channel EEG (Electroencephalography) system for the acquisition of ERPs (Event-Related Potentials), for electrophysiological research of cognition, perception, and action.

*2005-present.* Initiated and led funding effort (from multiple sources), and installation and testing, for a new state-of-the-art EEG/ERP system that can be used either for stand-alone EEG/ERP acquisition, or, in principle, for concurrent EEG/ERP and fMRI acquisition.

## **UNIVERSITY SERVICE AT MIT**

Co-organizer of McDonnell-Pew Cognitive Neuroscience Colloquium Series, Department of Brain and Cognitive Sciences, MIT. 1995-1996.

Developed an interactive database containing inflectional, orthographic, phonological, and relative frequency information on 5350 English verbs, for psycholinguistic research. Department of Brain and Cognitive Sciences, MIT. 1991-1992.

## TEACHING EXPERIENCE

### MEDICAL SCHOOL COURSES, GEORGETOWN UNIVERSITY MEDICAL CENTER

*Medical Neuroscience.* 1998-present.

Director of course. 2008-2011.

Co-Director of course. 2007-2008.

Lecture: Overview of Higher Cortical Functions. 1998-2003; 2006-present

Lecture: Learning and Memory. 2000-present.

Lecture: The neural basis of emotion: fear and reward 2016-present.

Lecture: Limbic Systems I. 2001-2003

Lecture: Limbic Systems II. 2001-2003

Lecture: The Limbic System. 2004-present.

Lecture: Introduction to the Forebrain. 2002-2012.

Lecture: The Cerebrum and its Cortex. 2003-2012.

Lecture: Integration and Review: Higher cortical function and dysfunction. 2004-present.

Laboratory small group demonstrations: ~2006-present

Brain overview; Ventricles; Cortex; Limbic system; Basal ganglia; Cerebellum

Laboratory Lecture: Segmental Organization of the Brainstem, Cranial Nerves and Somatosensory Systems. 2001

Laboratory Lecture: Thalamus, Cerebral Cortex, MRI & Coronal Sections. 2001-2002

Laboratory Lecture: Horizontal Sections, Motor System & Limbic Systems. 2001-2003

Laboratory Lecture: Patient Problems. 2003-2006.

Laboratory Lecture: MRI & Limbic System. 2004

Laboratory Lecture: Cerebral Cortex and the Limbic System. 2005

Laboratory Lecture: Cranial Nerves and Trigeminal System. 2005.

Laboratory Lecture: Cerebellum, Diencephalon and Basal Ganglia. 2005-present.

Laboratory Demonstrations. 2000-present.

Director of Laboratory: Horizontal Sections, Motor System & Limbic Systems. 2003

Director of Laboratory: Basal Ganglia & Limbic System. 2004

Director of Laboratory: Cerebral Cortex and the Limbic System. 2005-present

*Mind-Body Medicine Skills.* (First and second year medical students) Spring 2008, Fall 2008, Spring 2012, Fall 2012. Instructor/Facilitator/Leader.

### GRADUATE COURSES, GEORGETOWN UNIVERSITY MEDICAL CENTER

*Introduction to Neuroscience.* NSCI 575. 2011-present.

Lecture: Introduction to the Forebrain (2011)

Lecture: The Cerebrum and its Cortex (2011, 2012, 2013)

Lecture: Cortical Functions (2011, 2012, 2013)

Lecture: The Limbic System (2011)

Lecture: Learning and Memory (2012, 213)

Lab: Human Neuranatomy Laboratory

*Introduction to Neuroscience.* PBIO 569. 2009, 2010.



Co-Directors (2009, 2010): Susan Mulrone/Jenny Rogers, Nabil Azzam, Michael Ullman.  
Lecture: Introduction to the Forebrain.  
Lecture: The Cerebrum and its Cortex.  
Lecture: Cortical Functions

*Brain and Language*. 1998, 2000, 2003, 2005, 2007, 2009, 2012, 2014.

Neuroscience 523. Cross-listed in Psychology and Linguistics.

Course founders, directors and instructors: Michael Ullman and Rhonda Friedman. Peter Turkeltaub joined the course as a co-director in 2012.

*Interdisciplinary Research Survey*. MICB 505. 1997-1999, 2001-present.

Lecture: Developmental Language Impairment: 2004-present.

Lecture: Sex differences in the neurocognition of language: 2001-2003.

Lecture: The neural basis of language. 1999.

Lecture: Functional neuroanatomy of language. 1998.

Lecture: The neural bases of language. 1997.

*Interdisciplinary Program in Neuroscience Core Course*. 2008-present.

Lecture: Learning and memory: 2008-present.

Lecture: Brain bases of Language. 2009.

Lecture: Cognitive Neuroscience: Issues and Methods. 2010-present.

*Interdisciplinary Program in Neuroscience Survey Course*. 1999, 2002, 2004, 2008.

Lecture: Contributions of memory circuits to first and second language. 2008.

Lecture: Contributions of memory circuits to language. 2004.

Lecture: The declarative/procedural model of language. 2002.

Lecture: The neural bases of language. 1999.

*Mind-Body Medicine Skills*. P BIO 520. Fall 2007, 2008, 2009, 2013.

(Master's students in Complementary and Alternative Medicine – CAM – Program)  
Instructor/Facilitator/Leader.

*Language and memory in developmental disorders*. 2007.

Neuroscience 905. Graduate tutorial.

Course Director and Instructor: Michael Ullman

*Advanced Systems and Cognitive Neuroscience*. NSCI-504. 2007.

Lecture: The declarative/procedural model of language. 2007.

*Sex Differences in Physiology and Pathophysiology*. 2005, 2006.

P BIO 537. Georgetown University Medical Center.

Lecture (2005, 2006): Sex differences in brain and cognition.

Lecture (2006). Sex differences in the neurocognition of language.

*Neurocognitive bases of music and language*. 2004.

Neuroscience 905-21. Graduate tutorial.

Course Director and Instructor: Michael Ullman

*The neurocognition of Specific Language Impairment.* 2004, 2005.

Neuroscience 905-21. Graduate tutorial.

Course Director and Instructor: Michael Ullman

*Summer Neurofest.* 2001, 2003, 2005, 2009, 2014, 2015.

Interdisciplinary Program in Neuroscience. Graduate seminar.

Lecture: Language and memory. 2014.

Lecture: Brain, memory, language and sex. 2009.

Lecture: Contribution of memory circuits to first and second language. 2005.

Lecture: Sex differences in the neurocognition of language. 2003.

Lecture: Language in the brain. 2001.

*The Neurocognition of First and Second Language Acquisition and Processing.* 2001.

Neuroscience 905-21. Graduate tutorial.

Course Director and Instructor: Michael Ullman

*Hormones, Sex and Cognition.* 2001.

Neuroscience 905-23. Graduate tutorial.

Course Director and Instructor: Michael Ullman

*Sex Differences in the Neurocognition of Language.* 2001.

Neuroscience 905-23. Graduate tutorial.

Course Director and Instructor: Michael Ullman

*Music, Meditation and Mind.* 1998.

Lecture: Neural basis of language and music.

*Critical Readings in Neuroscience.* 1997.

Lecture: Language and the brain.

*Neuropathophysiology.* 1997.

Lecture: Language in Alzheimer's, Parkinson's, and Huntington's disease.

## GRADUATE COURSES, MAIN CAMPUS, GEORGETOWN UNIVERSITY

*Cognitive Science Research Seminar.* 2016-present.

ICOS 710

Instructor

*Language and Memory in Dyslexia and ADHD.* 2010.

Linguistics 902-21. Graduate tutorial.

Course Director and Instructor: Michael Ullman

*Neurocognitive aspects of child language acquisition.* 2007.

Linguistics 902-23. Graduate tutorial.  
Course Director and Instructor: Michael Ullman

*Brain and Language*. 1998, 2000, 2003, 2005, 2007, 2009, 2012. (see above)

*The Development of Cross-Linguistic Assessment Tools*. Linguistics 902-23. Graduate tutorial.  
2003.  
Course Director and Instructor: Michael Ullman

*Instructed Second Language Acquisition*. 2001, 2003, 2005, 2006, 2008, 2010, 2011.  
Spanish /Linguistics 509. Graduate course.

Lecture: The biocognition of second language acquisition and processing. 2005, 2006, 2008,  
2010, 2011.

Lecture: The declarative/procedural model: Extensions to second language acquisition and  
processing. 2001, 2003.

*Linguistics and Cognitive Science*. 2002.

Linguistics 563. Graduate course. Course director: Paul Portner.

Director of one of the three sections in the course (Neurolinguistics): Michael Ullman.

Instructor of two lectures in this section: Michael Ullman.

*Topics in Brain and Language Research: Language, Laterality and Handedness*. 2001.  
Linguistics 901-21. Graduate tutorial.

Course Director and Instructor: Michael Ullman

*Topics in Brain and Language Research*. Linguistics 902-23. Graduate tutorial. 2001.  
Course Director and Instructor: Michael Ullman

*Topics in psycholinguistics and neurolinguistics*. 1999.

Tutorial, Department of Linguistics.

Course Director and Instructor: Michael Ullman

#### UNDERGRADUATE COURSES, MAIN CAMPUS, GEORGETOWN UNIVERSITY

*The neurocognition of second language training and retention*. 2007.

Linguistics 301. Tutorial.

Course Director and Instructor: Michael Ullman

*Proseminar in Cognitive Science I*. 2000-present.

ICOS-320/201. Cognitive Science Program.

Lecture: An introduction to cognitive neuroscience. 2009-present.

Lecture: Brain and Language. 2004-2008.

Lecture: Language Acquisition. 2000-2003.

*Research Proseminar in Cognitive Science II*. 1998, 2000, 2001, 2002, 2004, 2005.

ICOS-321/202. Cognitive Science Program.

Three Week Research Module: Seeing Language in the Brain. 2004, 2005.  
Directors and Instructors of Module: Michael Ullman and Matthew Walenski  
Three Week Research Module: Seeing Language in the Brain. 2002.  
Directors and Instructors of Module: Michael Ullman and Karsten Steinhauer  
Three Week Research Module: Seeing Language in the Brain. 2001.  
Director and Instructor of Module: Michael Ullman. Additional instructor: Karsten Steinhauer  
Three Week Research Module: Language in the Brain. 2000.  
Director and Instructor of Module: Michael Ullman.  
Three Week Research Module: Language in the Brain. 1998.  
Director and Instructor of Module: Michael Ullman.

*Research Frontiers in Biophysics*. 1999, 2001, 2005.  
Lecture: How the brain works. 1999.  
Lecture: Processing signals in the brain. 2001.  
Lecture: Methods in Cognitive Neuroscience. 2005.

*The neural and functional basis of Specific Language Impairment*. 2002.  
Linguistics 302-21. Tutorial.  
Course Director and Instructor: Michael Ullman

*Left-handers, language, and the brain*. 2002.  
Linguistics 302-21. Tutorial.  
Course Director and Instructor: Michael Ullman

*Topics in Psycholinguistics and Neurolinguistics*. 2001.  
ICOS-301-02. Research Tutorial: Cognitive Science.  
Course Director and Instructor: Michael Ullman

*The representation and computation of complex and simple linguistic forms*. 2001.  
Linguistics 302. Research Tutorial.  
Course Director and Instructor: Michael Ullman

*Topics in psycholinguistics and neurolinguistics: Sex, hormones, and language*. 2001.  
Linguistics 302-01. Tutorial.  
Course Director and Instructor: Michael Ullman

*Pharmacological and Epidemiological Neurolinguistics*. 2001.  
Linguistics 302-21. Tutorial.  
Course Director and Instructor: Michael Ullman

#### OTHER TEACHING, GEORGETOWN UNIVERSITY

*Mini-Medical School*.  
Lecture: An introduction to Neuroscience. 2014.

*Fundamentals of Neuroscience.*

Summer course for high school students.

Lecture: Learning and Memory. 2014.

Lecture: Issues and Methods in Cognitive Neuroscience. 2014.

## GRADUATE AND UNDERGRADUATE COURSES, MIT

*Developmental Cognitive Neuroscience.* 1996.

Winter session course, MIT.

Course Directors and Instructors: Michael Ullman and Adele Diamond.

*Cognitive Neuroscience.* 1995.

Undergraduate seminar, Department of Brain and Cognitive Sciences.

Lecture: The neural bases of language

*Cognitive Neuroscience.* 1993.

Graduate and undergraduate course, Department of Brain and Cognitive Sciences. 1

Lecture: Functional brain imaging: An overview.

*Functional brain imaging: Taking pictures of the brain at work.* 1993.

Lecture in Winter Session course at MIT.

*The biology of language.* 1991.

Graduate course, Department of Brain and Cognitive Sciences.

Lecture: Functional brain imaging techniques.

*Laboratory in Cognitive Science.* 1991.

Undergraduate course, Department of Brain and Cognitive Sciences.

Teaching Assistant.

*Introduction to Psychology.* 1989.

Undergraduate course, Department of Brain and Cognitive Sciences.

Section Leader.

## OTHER TEACHING

*Neuro and psycholinguistic approaches to language processing.* Summer school, University of Minho, Braga, Portugal. 2011. Four lectures on “A brief introduction to neuro and psycholinguistic approaches to language processing” and “An overview of contributions of declarative and procedural memory to language”.

*Brain, Language and Bilingualism.* 2010. Two-day class. National Capital Language Resource Center, Washington DC.

*Brain, Language and Memory.* 2009. Four-day course. Ealing 2009 (Ecole D’Automne de Linguistique), Department of Cognitive Studies of the École Normale Supérieure, Paris, France.

*Brain, Language and Bilingualism*. 2009. Two-day class. National Capital Language Resource Center, Washington DC.

*Second Language Acquisition: The Declarative/Procedural Model*. 2008. Invited lecture in “Speech and Language Pathology (Logopedics) and Bilingualism”, Department of Neuroscience, Unit for Speech and Language Pathology, Uppsala University, Uppsala, Sweden. (Lecture given remotely)

*Brain, Language and Bilingualism*. 2008. Two-day class. National Capital Language Resource Center, Washington DC.

*Memory, Brain and Second Language*. 2008. Invited lecture at two-day class on “Brain, Language and Bilingualism”. National Capital Language Resource Center, Washington DC.

*Handedness, language and the brain: Independent ERP research project*. 2007.

COGS1970 - Independent Study

Independent study for undergraduate at Brown, co-taught with Professor Sheila Blumstein at Brown  
Role: Course Co-Director/Instructor, together with Prof. Blumstein

*Neuroimaging of Language*. 2003.

Three week course given at the Linguistics Society of America (LSA) Summer Institute (co-taught with Karsten Steinhauer). Michigan State University, East Lansing, MI.

*Sex Differences in Language, Mind and Brain*. 2006.

Lecture given at Churchill High School, Potomac, MD.

## **STUDENT TRAINING**

### **PHD STUDENTS AS MENTOR**

Mentor of Scott Miles, PhD student, Interdisciplinary Program in Neuroscience (IPN), Georgetown University. 2013-2016.

Awarded NSF Graduate Research Fellowship (2013-2016).

Awarded Cosmos Club Scholarship for dissertation project, 2015. \$1500.

Awarded J.K. McLaughlin Award in Biomedical Science from the Cosmos Club. 2015.

Mentor of Kaitlyn Tagarelli, PhD student, Department of Linguistics, Georgetown University. 2008-2014.

Awarded Georgetown University graduate school conference travel grant, 2012.

Awarded Cosmos Club Scholarship for dissertation project, 2013. \$1500.

Awarded Language Learning grant for dissertation project, 2013. \$2000.

Awarded William Orr Dingwall Neurolinguistics Fellowship, 2013. \$30,000.

Awarded the Modern Language Journal Dissertation Support Grant, 2013. \$2500

Currently Postdoctoral Fellow, Neurocognitive Imaging Lab, Dalhousie University, Canada.

Mentor of Sarah Grey (co-mentor, with Cristina Sanz), PhD student, Department of Spanish and Portuguese, Georgetown University. 2009-2013.

Awarded Language Learning dissertation research grant. 2011.

Awarded NSF Research Grant for Improving Doctoral Dissertation Research, 2011.

Currently Postdoctoral Fellow, Center for Language Science, Penn State.

Starting 2016 as Assistant Professor of Linguistics and Spanish in the Department of Modern Languages and Literatures, Fordham University, Bronx, NY.

Co-Mentor of Martina Hedenius, PhD student, Department of Neuroscience, University of Uppsala, Sweden. 2006-2013.

Awarded Hwasser prize (Hwasserska priset) for the best thesis of the Medical faculty 2013/2014

Mentor of Robbin Miranda, PhD student, Interdisciplinary Program in Neuroscience (IPN), Georgetown University. 2003-2007.

Awarded NSF Graduate Research Fellowship (2003-2006).

Currently Senior Research Scientist at Infinimetrics Corporation.

Mentor of Ivy Estabrooke, PhD student, Interdisciplinary Program in Neuroscience (IPN), Georgetown University. 2001-2005.

Awarded NIH Predoctoral Fellowship; Neural Injury and Plasticity Training Grant (2002-2003)

Currently Executive Director at the Utah Science Technology and Research Initiative

Mentor of Helen Carpenter, PhD student, Department of Linguistics, Georgetown University. 2001-2008.

Mentor of Harriet Wood Bowden (co-mentor, with Cristina Sanz), PhD student, Department of Spanish and Portuguese, Georgetown University. 2001-2007.

Awarded NIH National Research Service Award (NRSA) for Individual Pre-doctoral Fellows (Score 139, Percentile 3.2), 2003.

Awarded NSF Research Grant for Improving Doctoral Dissertation Research.

Currently Assistant Professor (Tenure Track), Department of Modern Foreign Languages and Literatures, University of Tennessee, Knoxville, Tennessee

Mentor of Kara Morgan-Short (co-mentor, with Cristina Sanz), PhD student, Department of Spanish and Portuguese, Georgetown University. 2001-2007.

Awarded NIH National Research Service Award (NRSA) for Individual Pre-doctoral Fellows (Score 144, Percentile 6.7), 2003.

Awarded NSF Research Grant for Improving Doctoral Dissertation Research.

Awarded the Harold N. Glassman Dissertation Award in the Social Sciences.

Currently Associate Professor (Tenured), Department of Spanish, French, Italian and Portuguese, and Department of Psychology, University of Illinois, Chicago, Illinois

Co-Mentor (Dissertation co-Director) of Madhavi Gayathri Raman, Ph.D student, School of English Language Education, Central Institute of English and Foreign Languages, Hyderabad, India, 1999-2006. (Official advisor: Professor R. Amritavalli)

Co-Mentor (unofficial) of Aaron Newman, PhD student, Department of Psychology, University of Oregon. 1998-2002. (Official mentor: Helen Neville)

Currently Assistant Professor (Tenure Track), Canada Research Chair in Cognitive Neuroscience, Departments of Psychology & Psychiatry, Dalhousie University, Halifax, Nova Scotia, Canada

Mentor of Claudia Brovetto, PhD student, Department of Linguistics, Georgetown University. 1999-2002. PhD received in 2002.

Awarded NSF Research Grant for Improving Doctoral Dissertation Research.

Currently Assistant Professor, Universidad Catolica del Uruguay, Montevideo, Uruguay

## PHD COMMITTEES

PhD dissertation committee of Kathryn Schuler, PhD student, Interdisciplinary Program in Neuroscience, Georgetown University, 2015-present.

PhD dissertation committee of Kate Brill-Schuetz, PhD student, Department of Cognitive Psychology, University of Illinois, Chicago. 2014-2016.

PhD dissertation committee of William Hayward, PhD student, Interdisciplinary Program in Neuroscience, Georgetown University, 2014-present.

PhD dissertation committee of Patrick Cox, PhD student, Interdisciplinary Program in Neuroscience, Georgetown University, 2013-present.

PhD dissertation committee (Chair) of Brannon Green, PhD student, Interdisciplinary Program in Neuroscience, Georgetown University, 2013-2016.

PhD dissertation committee of Kyle Shattuck, PhD student, Interdisciplinary Program in Neuroscience, Georgetown University, 2012-present.

PhD dissertation committee of Frank Fishburn, PhD student, Interdisciplinary Program in Neuroscience, Georgetown University, 2012-present.

PhD dissertation committee of Oya Özemir, PhD student, Department of Speech Language Sciences, Boğaziçi University, Istanbul, Turkey. 2012-2013.

PhD dissertation committee of Kuppuraj Sengottuvel, PhD student, Department of Speech Language Sciences, All India Institute of Speech and Hearing, Mysore, India. 2012-2014. External examiner: Ullman.

PhD dissertation committee of Michael Nevat, PhD student, Haifa University, Haifa, Israel. 2010-2013.

PhD dissertation committee of Monika Mellem, PhD student, Interdisciplinary Program in Neuroscience, Georgetown University, 2009-2013.



PhD dissertation committee of Lauren Ullrich, PhD student, Interdisciplinary Program in Neuroscience, Georgetown University, 2009-present.

PhD dissertation committee of Mark Chevillet, PhD student, Interdisciplinary Program in Neuroscience, Georgetown University, 2008-2011.

PhD dissertation committee (Discussant and Reviewer) for Anne-Dominique Devauchelle, PhD student, School of Psychology, NeuroSpin Center, Paris, France. 2008.

PhD dissertation committee (Discussant and Reviewer) for Maurits van den Noort, PhD student, School of Psychology, University of Bergen, Bergen, Norway. 2007.

PhD dissertation committee (External Examiner) of Renita Silva, PhD student, Department of Language and Linguistics, University of Essex, Colchester, United Kingdom. 2007-present.

PhD dissertation committee of Dominik Rus, PhD student, Department of Linguistics, Georgetown University. 2006-2008.

PhD dissertation committee of Heather Bonikowski, PhD student, Department of French and Italian, University of Texas, Austin. 2002-present.

PhD dissertation committee (External Examiner) of Madhavi Gayathri Raman, Ph.D student, School of English Language Education, Central Institute of English and Foreign Languages, Hyderabad, India, 2006.

PhD dissertation committee of Sean Rogers, PhD student, Interdisciplinary Program in Neuroscience, Georgetown University, 2003-present.

PhD dissertation committee of Bernard Kripkee, PhD student, Department of Linguistics, Georgetown University. 1999-2005.

PhD dissertation committee of Marco Campos, PhD student, Department of Linguistics, Georgetown University. 2000-2003.

PhD dissertation committee of Kyrana Tsapkini, PhD student, Department of Linguistics, University of Montreal. 2000-2001.

#### PHD ORALS COMMITTEES

Shady El Damaty, Ph.D candidate (MD/PhD student). Qualifying Orals Exam. Interdisciplinary Program in Neuroscience (IPN), Georgetown Medical Center, Georgetown University. 2013.

William Hayward, Ph.D candidate (MD/PhD student). Qualifying Orals Exam. Interdisciplinary Program in Neuroscience (IPN), Georgetown Medical Center, Georgetown University. 2013.

Patrick Cox, Ph.D candidate. Qualifying Orals Exam. Interdisciplinary Program in Neuroscience (IPN), Georgetown Medical Center, Georgetown University. 2012.

Frank Fishburn, Ph.D candidate. Qualifying Orals Exam. Interdisciplinary Program in Neuroscience (IPN), Georgetown Medical Center, Georgetown University. 2012.

Kyle Shattuck, Ph.D candidate. Qualifying Orals Exam. Interdisciplinary Program in Neuroscience (IPN), Georgetown Medical Center, Georgetown University. 2012.

Brannon Green, Ph.D candidate. Qualifying Orals Exam. Interdisciplinary Program in Neuroscience (IPN), Georgetown Medical Center, Georgetown University. 2011.

Clara Scholl, Ph.D candidate. Qualifying Orals Exam. Interdisciplinary Program in Neuroscience (IPN), Georgetown Medical Center, Georgetown University. 2009.

Monika Mellem, Ph.D candidate. Qualifying Orals Exam. Interdisciplinary Program in Neuroscience (IPN), Georgetown Medical Center, Georgetown University. 2009.

Lauren Ullrich, Ph.D candidate. Qualifying Orals Exam. Interdisciplinary Program in Neuroscience (IPN), Georgetown Medical Center, Georgetown University. 2008.

Mark Chevillet, Ph.D candidate. Qualifying Orals Exam. Interdisciplinary Program in Neuroscience (IPN), Georgetown Medical Center, Georgetown University. 2007.

Jeremy Purcell, Ph.D candidate. Qualifying Orals Exam. Interdisciplinary Program in Neuroscience (IPN), Georgetown Medical Center, Georgetown University. 2007.

Helen Carpenter. Ph.D. Oral Comprehensive Examination. Department of Linguistics, Georgetown University. 2004.

Harriet Bowden-Wood. Ph.D. Comprehensive Examination. Department of Spanish and Portuguese, Georgetown University. 2003.

Kara Morgan-Short. Ph.D. Comprehensive Examination. Department of Spanish and Portuguese, Georgetown University. 2003.

Robbin Wood, Ph.D candidate. Qualifying Orals Exam. Interdisciplinary Program in Neuroscience (IPN), Georgetown Medical Center, Georgetown University. 2004.

Ivy Estabrooke, Ph.D candidate. Qualifying Orals Exam. Interdisciplinary Program in Neuroscience (IPN), Georgetown Medical Center, Georgetown University. 2003.

Sean Rogers, Ph.D candidate. Qualifying Orals Exam. Interdisciplinary Program in Neuroscience (IPN), Georgetown Medical Center, Georgetown University. 2002.

Kathleen Durkin, Ph.D candidate. Qualifying Orals Exam. Interdisciplinary Program in Neuroscience (IPN), Georgetown Medical Center, Georgetown University. 2001.

Bernard Kripkee. Ph.D. Qualifying Orals Examination. Department of Linguistics, Georgetown University. 1999.

Cherie Marvel, Ph.D candidate. Qualifying Orals Exam. Interdisciplinary Program in Neuroscience (IPN), Georgetown Medical Center, Georgetown University. 1998.

#### PHD STUDENT ROTATIONS (INTERDISCIPLINARY PROGRAM IN NEUROSCIENCE)

Adam Caccavano. Summer 2015.

Shady El Damaty. Spring 2013.

Scott Miles. Summer 2012.

Sheeva Azma. Spring 2008.

Evan Gordon. Spring 2008.

Pavel Ortinski. Fall 2002.

Jill Weisberg. Fall 2002.

Robbin Wood. Summer 2002.

Ivy Estabrooke. Summer 2000.

#### MD/PHD STUDENT ROTATIONS

Stephanie Davis. Summer 2013.

#### PHD STUDENTS AS FACULTY ADVISOR (general advisory role, not mentor)

Jill Weisberg. Interdisciplinary Program in Neuroscience. 2002-2006.

#### MASTERS STUDENTS AS MENTOR

Mentor of Kaley Alberty, Masters student, Linguistics Dept, Georgetown University. 2011-2012

Mentor of Laura Babcock, Masters student, Linguistics Dept, Georgetown University. 2007-2008

Mentor of Elizabeth Prado, Masters student, Linguistics Dept, Georgetown University. 2002-2004.

Fulbright Fellow. Research Project: Examining cognitive changes resulting from micronutrient supplementation of 126,000 women in Lombok, Indonesia. Mentors: Michael Ullman, Anu Shankar.

NSF Graduate Research Fellow. 2005-2008.

PhD, Department of Psychology, Lancaster University, Lancaster, United Kingdom. 2010.

Currently Postdoctoral Fellow, University of California, Davis.

#### MEDICAL STUDENTS AS RESEARCH MENTOR

Rachel Usala. Medical Student, Georgetown University. 2012-present.

Research project: Factors that improve learning and memory, and their application to language learning and recovery.

Courtney Cutler. Medical Student, Georgetown University. 2006-2007.

Research project: Language and reading dysfunction in cerebellar patients.

Sanjay Yadla. Medical Student, New York University. 2002.

Research project: Language impairments in Alzheimer's and Parkinson's diseases.

#### MEDICAL STUDENTS AS OFFICIAL ADVISOR

Millie Pevzner, 1st year medical student, Georgetown Medical Center, Georgetown University. 2000-2001.

Michael Spinelli, 1st year medical student, Georgetown Medical Center, Georgetown University. 1996-1998.

#### MENTOR OF VISITING FACULTY

Christos Pliatsakis 2015.

Lecturer in Cognitive Psychology.

University of Kent

Dr. Pliatsakis was awarded a Franklin Research Grant from the American Philosophical Society to visit the Brain and Language Lab.

Ingrid Finger. 2010-2011.

Associate Professor, Federal University of Rio Grande do Sul, Department of Modern Languages, Porto Alegre, Brazil

Mailce Mota. 2008-2009.

Associate Professor, Universidade Federal de Santa Catarina, Department of Foreign Languages and Literature, Florianópolis, Brazil

Dezso Nemeth. 2007-2008.

Assistant Professor, University of Szeged, Department of Psychology, Szeged, Hungary.

#### MENTOR OF VISITING GRADUATE STUDENTS

Signe Schneider. 2012.

Neurocognitive Psychology, Masters of Science). Carl von Ossietzky University Oldenburg.

#### MENTOR OF POST-DOCTORAL FELLOWS AND RESEARCH ASSISTANT PROFESSORS

Oya Özemir. 2013-2015.

Ph.D., Department of Speech Language Sciences, Boğaziçi University, Istanbul, Turkey. 2013.

Awarded 2219-Abroad Post Doc Research Scholarship Program, by the the Scientific and Technological Research Council of Turkey to work in the Brain and Language Lab. 2013-214

Joao Verissimo. 2010-2014.

Ph.D., Linguistics, University of Essex, Wivenhoe Park, UK. (Mentor: Harald Clahsen)

Awarded fellowship from Fundação para a Ciência *ea* Tecnologia, Portugal.

Currently postdoctoral research fellow, Potsdam Research Institute for Multilingualism, University of Potsdam, Germany.

Antoine Tremblay. 2009-2010.

Ph.D., Linguistics, University of Albert, Edmonton, Alberta. (Mentor: Harald Baayen)

Currently postdoctoral fellow, Dalhousie University.

Cristina Dye. 2006-2010.

Ph.D., Linguistics and Cognitive Science, Cornell University, Ithaca, New York.

Currently Assistant Professor (Tenure Track) of Language Development, Centre for Research in Linguistics and Language Sciences, Newcastle University, Newcastle upon Tyne, UK.

Robbin Miranda. 2007-2008.

PhD, Interdisciplinary Program in Neuroscience, Georgetown University.

Neuroscientist, Schafer Corporation.

Currently Senior Research Scientist, Infinimetrics

Matthew Walenski. 2000-2006.

Ph.D., Departments of Psychology and Linguistics, University of California, San Diego.

Co-PI, National Alliance for Autism Research. Research Grant. 2003-2005.

Co-PI, Mabel Flory Trust. Research Grant. 2003-2004

Currently Research Associate at the University of California, San Diego.

John Drury. 2000-2006.

Ph.D., Department of Linguistics, University of Maryland, College Park, Maryland. 2000-2005.

Post-doctoral fellow, School of Communication Sciences and Disorders, McGill University, Montreal. 2006-2010.

Assistant Professor (Tenure Track), Department of Linguistics, Stony Brook University, New York.

Currently Research Associate, Northwestern University.

Karsten Steinhauer.

Research Assistant Professor. 2003-2006.

Postdoctoral Fellow. 2000-2002.

Ph.D., Max Planck Institute for Cognitive Neuroscience, Leipzig, and Free University of Berlin, Germany.

Currently Associate Professor (Tenured), Canada Research Chair in Neurocognition of Language, School of Communication Sciences and Disorders, McGill University, Montreal.

Roumyana Izvorski-Pancheva. 1998-2000.

Ph.D., Department of Linguistics, University of Pennsylvania, Philadelphia. 1998-2000.

Currently Associate Professor (Tenured) in Linguistics at the University of Southern California.

#### MENTOR OF TENURE TRACK JUNIOR FACULTY

Peter Turkeltaub. 2012-present

Assistant Professor, Department of Neurology, Georgetown University Medical Center, Washington DC.

Adam Green. 2012-present.

Assistant Professor, Department of Psychology, Georgetown University, Washington DC.

Robert Reichle. 2013-present

Assistant Professor, Center for the Interdisciplinary Study of Language and Literacy, Northern Illinois University, DeKalb, Illinois.

#### UNDERGRADUATE RESEARCH TRAINING

Natasha Janfaza. 2014-

Linguistics/music major. Georgetown University. BA expected 2018.

Awarded Kalorama Fellowship, 2015.

Alaina Wrencher. 2012-2013.

University of Pittsburgh. External member of thesis committee.

BA spring 2013.

Matt Huzsagh. 2012-2013.

Georgetown University. BA expected Spring 2015.

Neil Menon. 2012.

Linguistics major. Georgetown University. BA expected Winter 2013.

Mentor of Rachael Campbell. 2011-2013.

Linguistics and Psychology major. Georgetown University. BA Spring 2013

Honors Thesis: The Neuroanatomy of Regular and Irregular Morphology as a Model of Language: An ALE Meta-Analysis

Stephen Serene. 2009.

Physics major. MIT. BA expected Spring 2013.

Steven Cohen. 2009.

Cognitive Science major. Tufts University. BA expected Spring 2013.

Mentor of Annie Brown. 2009-present.

Cognitive neurolinguistics major. Connecticut. BA expected Spring 2010.

Mentor of Mariel Pullman. 2008-2010.

Linguistics and French major. Georgetown University. BA Spring 2010.

Honors Thesis topic: Language and procedural memory in ADHD.

Chris Reid. 2008-2009.

Linguistics major. Georgetown University. BA expected Spring 2010.

Mentor of Roland Dimaya. 2008-2009.

Human Science in the School of Nursing and Health Studies Major. Georgetown University.

BA Spring 2009.

Brittany Sonnichsen. 2007-2008.

Psychology major, Music and Cognitive Science minors, Georgetown University. BA, Spring 2008.

Stephanie Lukas. 2006-2008.

Linguistics and Spanish & Portuguese major, Georgetown University. BA, Spring 2008.

Selim Gulgoz. 2007-2008.

Koc University, Istanbul, Turkey. Bachelor's expected Spring 2009.

Matthew Gelfand. 2005-2008.

Cognitive neuroscience major, Brown University. B.A., Spring 2008.

Michelle Travers. 2005-2007.

Linguistics major, Georgetown University. BA, Spring 2008.

Mentor of Jocelyn Curchak. 2001-2003.

Cognitive Science major, Vassar College. Bachelor's expected Spring 2004.

Thesis topic: The neurocognitive bases of language deficits in ADHD.

Currently doctoral candidate in Clinical Neuropsychology, CUNY, New York

Mentor of Sarah Lee. 2001-2003.

Cognitive Science major, Georgetown University. Bachelor's awarded Spring 2003.

Thesis title: The relationship between handedness and language.

Note: She was the first Cognitive Science major at Georgetown University.

Elizabeth Pierpont. 2001-2002.

Linguistics major, Georgetown University. Bachelor's awarded Spring 2004.

Joshua Hartshone. 2000-2002.  
Biological Psychology and Mathematics double major, Oberlin College, Oberlin, Ohio.  
Bachelor's received Spring 2002.

Elizabeth Prado. 2000-2002.  
Linguistics major, Georgetown University. Bachelor's received Spring 2002.

Kirk McMurray. 1998-1999.  
Cognitive Science and Psychology major, Georgetown University. BA, Spring 1999.

#### POST-UNDERGRADUATE / POST-MASTERS RESEARCH TRAINING

Jarrett Lovelett. 2011-present.  
BA, Cognitive Science, Yale University. 2011.  
Research Assistant/Lab Manager. Carried out research on various projects, with a focus on concurrent ERP/fMRI studies and the effect of handedness on language and cognition.

Mariel Pullman. 2010-present.  
BA, Linguistics and French, Georgetown University. 2010.  
Research Assistant/Lab Manager. Carried out research on various projects, with a focus on Specific Language Impairment, sex differences, handedness, and concurrent ERP/fMRI.

Kaitlyn Litcofsky. 2009-present.  
BS, Biopsychology, Tufts University. 2009.  
Research Assistant/Lab Manager. Carried out research on various projects, with a focus on second language acquisition.

Laura Babcock. 2008-2010.  
MA, Linguistics, Georgetown University. 2004.  
BA, Physics, MIT, 2004.  
Research Assistant/Lab Manager. Carried out research on various projects, with a focus on second language acquisition.

Matthew Gelfand. 2008-2009.  
B.A., Cognitive Neuroscience, Brown University, 2008.  
Research Assistant/Lab Manager. Carried out research on various projects, included examining the neurocognition of language in left vs. right handers, in second language learners, and in variations of genes known to affect memory.

John Stowe. 2006-2007.  
B.A., Cognitive Science, Johns Hopkins University, 2006.  
Research Assistant/Lab Manager. Carried out research on various projects, with a focus on statistical analysis.



Marco Piñeyro II. 2005-2007.

B.A., Linguistics, Northwestern University, 2005.

Research Assistant/Lab Manager. Carried out research on various projects, with a focus on subject testing.

Christopher Maloof. 2004-2005.

B.A., Computer Science, Amherst College, 2002.

M.S.E., Computer and Information Science, University of Pennsylvania. Spring 2004.

Focus on computational linguistics.

Research Assistant/Lab Manager. Carrying out research on various projects, with a focus on statistical analysis.

Jocelyn Curchak. 2004-2005.

B.A., Cognitive Science, Vassar College. 2004.

Research Assistant/Lab Manager. Research Assistant/Lab Manager. Carrying out research on various projects, with a focus on developmental disorders, especially ADHD.

Elizabeth Prado. 2004-2005.

B.A., Linguistics, Georgetown University, 2002.

Masters, Linguistics, Georgetown University, 2004.

Research Assistant. Research Assistant/Lab Manager. Carried out research on various projects, with a focus on the effects of imageability on linguistic processing, and on a large project in Indonesia examining the effects of multiple micronutrient supplementation on pregnant women and their children.

Shira Fischer. 2003-2004.

B.A. degree with honors in Biochemistry, 2001, Harvard University.

Research on various projects, with a focus on second language acquisition.

Sarah Lee. 2003-2005.

Cognitive Science major, Georgetown University. Bachelor's awarded Spring 2004. (see above)

Research on various projects, with a focus on the neurocognitive bases of handedness and language laterality.

Claudia Bonin. 2003-2005.

B.A. , Duke University, 1982.

Research on dyslexia and language.

Joshua Hartshorne. 2000 - 2003

Mathematics major, Oberlin College, Oberlin, Ohio. Bachelor's received Spring 2002.

Currently PhD candidate, Department of Psychology, Harvard University. 2007-present.

Recipient of NDSEG and NSF fellowships, 2008.

Carried research on various projects, including psycholinguistic studies of storage and composition, and the examination of the neurocognition of language in dyslexia.

Matthew Moffa. 2002-2005.

Physics and Religion double major, University of Rochester, NY. BA and BS, Spring 2002.

Lab Manager of the Brain and Language Lab. Also Research Assistant, carrying out independent research in the lab, focusing on ERP studies and the neurocognitive bases of handedness.

Kaori Ozawa. 1998-2002.

Cognitive Science Major, Johns Hopkins University, Baltimore, MD. BA, Spring 1999.

PhD candidate in the Department of Linguistics at the University of Maryland, College Park (Advisor: Colin Phillips).

Courtney Horwitz. 1997-1998.

Speech and Hearing Major, George Washington University, Washington, DC. BA, December 1997.

Currently a doctoral candidate in the Brain, Behavioral and Cognitive Program at Boston University (Advisor: Catherine Harris).

Eiling Yee 1996-1998.

Cognitive Science Major, University of Rochester, Rochester, NY. BA, Spring 1996.

PhD, Cognitive Science Program at Brown University (Advisor: Sheila Blumstein).

Postdoctoral Fellow, University of Pennsylvania, (sponsor: Sharon Thompson-Schill)

## HIGH SCHOOL RESEARCH TRAINING

Olivia Gilliatt. 2002-2003.

Graduated from Sleepy Hollow High School, New York, Spring 2004.

Carrying out independent research in Ullman's lab on second language acquisition and processing in native speakers of Spanish. For this research, she has been awarded Finalist in the Intel International Science and Engineering Fair, and First Place in Behavioral Science *and* overall at the Regional Intel Science and Engineering Fair.

## TRAINING GRANTS

### AWARDED - CURRENT

NSF BCS 1124144. Research Grant for Improving Doctoral Dissertation Research. 2011-

2014 "Doctoral Dissertation Research: A neurolinguistic investigation on

bilingual advantages at learning an additional language" Funding the doctoral dissertation of Sarah Grey, PhD candidate in the Department of Spanish and Portuguese, Georgetown University.

Total costs: \$12,000.

## AWARDED - PREVIOUS

NSF BCS 0519133. Research Grant for Improving Doctoral Dissertation Research. 2006-2007.

PI: Michael Ullman.

“Doctoral Dissertation Research: The role of experience in second language neurocognition.” For funding the doctoral dissertation of Harriet Wood Bowden, PhD candidate in the Department of Spanish and Portuguese, Georgetown University.

Total costs: \$12,000.

NSF BCS 0446836. Research Grant for Improving Doctoral Dissertation Research. 2005-2007.

PI: Michael Ullman.

“Doctoral Dissertation Research: A neurolinguistic investigation of second language acquisition: Effects of explicit and implicit learning environments.” Funding the doctoral dissertation of Kara Morgan-Short, PhD candidate in the Department of Spanish and Portuguese, Georgetown University.

Total costs: \$12,000.

NSF Graduate Research Fellowship. 2004-2006.

Predocutorial Applicant: Robbin Wood. Mentor: Michael Ullman.

Research Project: The declarative/procedural model and the neurocognition of music.

Note: one of only 24 awarded nationwide in Neuroscience in 2003, and the only one at Georgetown University.

NIH National Research Service Awards (NRSA), Individual Pre-doctoral Fellows (F31). 2003-07.

Predocutorial Applicant: Kara Morgan-Short. Sponsor: Michael Ullman.

“Second language learning: An artificial language study”

Score: 144. Percentile: 6.7

Total costs: \$84,000.

NIH National Research Service Awards (NRSA), Individual Pre-doctoral Fellows (F31). 2003-08.

Predocutorial Applicant: Harriet W. Bowden. Sponsor: Michael Ullman.

“Experience in late-acquired language neurocognition”

Score: 139. Percentile: 3.2

Total costs: \$84,000.

NIH Predocutorial Fellowship: Neural Injury and Plasticity Training Grant. 2002-2003

“Neuropharmacological Approaches to the Recovery of Language after Neural Insult.”

Predocutorial student: Ivy Estabrooke. Sponsors: Michael Ullman, Paul Aisen (both at Georgetown).

Fulbright Fellowship. 2002-2003.

Research Project: Micronutrient supplementation of 126,000 women in Lombok, Indonesia: Effects on Neurocognition.

Awarded to Elizabeth Prado. Mentors: Michael Ullman (Georgetown) and Anuraj Shankar (Helen Keller International).

NSF BCS 0001961. Research Grant for Improving Doctoral Dissertation Research. 2000-2002.

PI: Michael Ullman.

“The representation and processing of verbal morphology in first and second language.” For funding the doctoral dissertation of Claudia Brovetto, PhD candidate in the Department of Linguistics, Georgetown University.

Total costs: \$12,000.

Note: This is the first NSF Doctoral Dissertation Grant in Linguistics awarded to a faculty member at Georgetown University.

NSF REU (Research Experience for Undergraduates) Supplement. 2000-2001.

PI: Michael Ullman.

“An interference study investigating the declarative/procedural model of language.”

Total costs: \$4282.

Member, Core Training Faculty. NIH Training Grant: Interdisciplinary Program in Neuroscience. 2001-2006. PI: Karen Gale.

Member, Core Training Faculty. NIH Training Grant: Neural Injury and Plasticity. (T32 NS41218-01) 2001-2006. PI: Jean Wrathall.

Member, Core Training Faculty. NIH Training Grant: Recovery of Function after CNS Injury. PI: Barbara Bregman.

## **RESEARCH GRANTS**

### **AWARDED - CURRENT**

NIH R21 HD 087088. 2016-2018

PI: Laurie.

“The neuro Cutting cognition of procedural and declarative memory in dyslexia and S-RCD.”

Total costs: \$433,632.

Subcontractual PI: Michael Ullman

Subcontract: Total costs: \$116,625. Ullman Percent Effort: 10%

NSF BCS 1439290. 2014-2017.

PI: Michael Ullman.

“Second language acquisition and long-term retention in a mini-language.”

Total costs: \$586,933. Ullman Percent Effort: 10%.

### **AWARDED - PREVIOUS**

Grand Challenges Canada. 2012-2014.

PI: Husni Muadz.

“An investigation of the impact of maternal multiple micronutrient supplementation on the health, cognitive, motor, and socio-emotional function of school-age children in Indonesia”

Ullman: Co-Investigator  
Total costs: C\$1,232,830. Ullman Percent Effort: 5%

NIH R01 AG016790. 2009-2014  
PI: Noreen Goldman.  
“Biodemography of Health, Social Factors and Life Challenge.”  
Subcontractual PI: Michael Ullman  
Subcontract: Total costs: \$32,526 Ullman Percent Effort: 0%

Mabel H. Flory Charitable Trust. Research Grant. 2012-2013.  
PIs: Michael Ullman, Peter Turkeltaub.  
“Pilot study examining frontal/basal-ganglia circuits in specific language impairment.”  
Total costs: \$10,000. Ullman Percent Effort: 0%.

Deakin University, Central Research Grant's Scheme. 2013.  
Closing in on the cause of language problems in specific language impairment: A test of the procedural deficit hypothesis  
Chief Investigators: Jarrad Lum, Alan Pearce, Linda Byrne. External Investigator: Michael Ullman  
Total Cost: A\$20,000. Ullman Percent Effort: 0%

Center for Collaborative Neuroscience and Neuropsychiatry, Deakin University, Australia. 2011-2013.  
Research Grant.  
“An fMRI study of procedural memory in children with specific language impairment: Looking at the language problem from a new perspective.”  
Chief Investigators: Jarrad Lum, Linda Byrne. Partner Investigator: Ullman  
Total costs: A\$20,363. Ullman Percent Effort: 0%

Simons Foundation. Supplement. 2010-2013.  
PI: Michael Ullman.  
“Language learning in autism.”  
Supplement for testing children with autism at Simons Simplex Collection sites.  
Total costs: \$110,925. Ullman Percent Effort: 0%.

Simons Foundation. Pilot Award. 2008-2013.  
PI: Michael Ullman.  
“Language learning in autism.”  
Total costs: \$300,000. Ullman Percent Effort: 15%.

NIH 3R01AG016661-12S2 (administrative supplement). 2010-2011.  
PI: Maxine Weinstein. Senior Investigator: Ullman  
“Biodemography of Health, Social Factors & Life Challenge.”  
Total costs: \$51,000. Ullman Percent Effort: 0%.

NIH R01 HD049347. 1999-2009. (no-cost extension to 2011)  
PI: Michael Ullman. (10.1 percentile)

“Contribution of neural memory circuits to language.” (Competitive Renewal of MH58189)  
Total costs: \$1,820,940. Ullman Percent Effort: 50%.

ARRA NIH supplement. 2010.

PI: Michael Ullman.

Summer student supplement for NIH R01 HD049347

Total costs: \$15,167. Ullman Percent Effort: 0%.

ARRA NIH supplement (3R01HD049347-09S3). 2010-2011.

PI: Michael Ullman.

For NIH R01 HD049347, to fund fMRI-compatible ERP system and the first language studies using that system.

Total costs: \$184,693. Ullman Percent Effort: 0%.

Mabel H. Flory Charitable Trust. Research Grant. 2010-2011.

PI: Michael Ullman.

“The role of memory systems in language deficits and compensation.”

Total costs: \$7,000. Ullman Percent Effort: 0%.

United States-Israel Binational Science Foundation. Research grant. 2008-2011.

PIs: Michael Ullman, Tali Bitan (Haifa University).

“The role of procedural and declarative memory systems in learning morphological inflections in a novel language: an effective connectivity fMRI study”

Total costs: \$60,000. Percent Effort: 0%

NIH. R03 HD050671. 2005-2008.

PI: Jennifer Ganger (University of Pittsburgh).

Sucontractual PI: Michael Ullman

“Effects of genetic variation in dopamine on language.” (1.2 percentile)

Total costs: \$100,000. Total costs of subcontract: \$45,101. Ullman Percent Effort: 5%.

ARRA NIH supplement. 2009.

PI: Michael Ullman.

Summer student supplement for NIH R01 HD049347

Total costs: \$15,167. Ullman Percent Effort: 0%.

Stiftelsen Sunnerdahls Handikappfond. Research Grant. 2008-2010.

PIs: Margareta Jennische, Martina Hedenius

Subcontractual PI: Michael Ullman

“Minnesfunktioner hos barn med "specifik språkstörning” (Memory functions in children with Specific Language Impairment)

Total costs: 180,000 Swedish Kroner. 50,000 to Brain and Language Lab. Ullman % Effort: 0%

NIH R01 MH58189. 1999-2003.

PI: Michael Ullman.

“Contribution of neural memory circuits to language.”

Total costs: \$518,160. Ullman Percent Effort: 40%

Mabel H. Flory Charitable Trust. Research Grant. 2008-2009.

PI: Michael Ullman.

“Language Learning in Autism and Focal-Lesion Aphasia.”

Total costs: \$16,750. Ullman Percent Effort: 3%.

Allen Foundation. Research Grant. 2007-2008.

Co-I: Michael Ullman. (PI: Katie Alcock, University of Lancaster, UK.)

“Developmental outcomes of maternal micronutrient supplementation at three years of age.”

Total costs: \$56,221. Ullman Percent Effort: 0%.

Mabel H. Flory Charitable Trust. Research Grant. 2007-2008.

PI: Michael Ullman.

Compositional semantics in aphasia.

Total costs: \$13,250. Ullman Percent Effort: 0%.

Mabel Flory Trust. Research Grant. 2006-2007.

PI: Michael Ullman.

A neurocognitive mechanism for language recovery in aphasia.

Total costs: \$13,250. Ullman Percent Effort: 0%.

National Alliance for Autism Research. Research Grant. 2003-2005.

Neurocognitive correlates of language in autism.

PI: Michael Ullman.

Total costs: \$118,574

Ullman Percent Effort: 5%.

Mabel H. Flory Charitable Trust. Research Grant. 2003-2004.

PI: Michael Ullman.

The neurocognition of language and memory deficits in autism.

Total costs: \$7,450. Ullman Percent Effort: 0%.

NIH Mental Retardation and Developmental Disabilities Center (MRDDRC). 2001-2006.

NICHD Center Grant. PI: Mark Batshaw, Children’s National Medical Center.

Total costs: \$4,296,389. Ullman Percent Effort: 0%

National Alliance for Autism Research. Research Grant. 2001-2003.

Examination of a Deficit in Procedural Learning in Autism.

Co-Investigator: Michael Ullman. PI : Stewart Mostofsky.

Total costs: \$80,880. Ullman Percent Effort: 0%.

NIH R21. 2001-2004.

Co-Investigator: Michael Ullman. PI: Rhonda Friedman.

“Learning, Memory, and the Rehabilitation of Anomia.” Total costs: \$698,400.

Direct costs for Ullman: \$20,000. Ullman Percent Effort: 10%.

Pfizer, Inc. 2001-2003.

PIs: Michael Ullman and Paul Aisen, Georgetown University.

“Effects of Donepezil Therapy on Electrophysiological and Neuroimaging Measures of Brain Activity.”

Total costs: \$201,783. Ullman Percent Effort: 20%.

NSF SBR-9905273. 1999-2006.

PI: Michael Ullman.

“A role for declarative and procedural memory in language.”

Total costs: \$281,078. Ullman Percent Effort: 20% (1999-2003).

Supplements: \$500,000

McDonnell-Pew Program in Cognitive Neuroscience: Investigator-Initiated Grant. 1998-2002.

PI: Michael Ullman.

“Contribution of neural memory circuits to language.”

Total costs: \$150,000. Ullman Percent Effort: 15%.

Department of Defense Cooperative Agreement. Army DAMD-17-93-V-3018/3019/3020, DAMD-17-99-2-9007. 1996-2001.

PI: Alan Faden, Georgetown University.

“Institute for Cognitive and Computational Sciences: Multidisciplinary Research Studies Relating to CNS Injury, Plasticity, and Treatment.”

Direct costs for Ullman: \$630,000. Ullman Percent Effort: 15%.

Georgetown University, Office of the Dean of Research. 2000-2001.

PI: Michael Ullman.

“Proposal for EEG/ERP core facility.”

Total costs: \$12,120. Ullman Percent Effort: 0%.

**PUBLICATIONS** (as of August 2016: 97 publications; over 9600 citations, from Google scholar)

PEER REVIEWED JOURNAL PUBLICATIONS (61)

Nevat, M., **Ullman, M.T.**, Eviatar, Z., & Bitan, T. (In Press). The neural bases of the learning and generalization of morphological inflection. *Neuropsychologia*.

Evans, T.M. & **Ullman, M.T.** (2016). An extension of the procedural deficit hypothesis from developmental language disorders to mathematical disability. *Frontiers in Psychology*. 7, 1318.

C.D. Dye, M. Walenski, S.H. Mostofsky, & **M.T. Ullman** (2016). A verbal strength in children with Tourette syndrome? Evidence from a non-word repetition task. *Brain and Language*. 160, 61-70.

Miles, S., Miranda, R.A., & **M.T. Ullman, M.T.** (2016). Sex differences in music: A female advantage at recognizing familiar melodies. *Frontiers in Psychology*. 7, 278.



G. Conti-Ramsden, **M.T. Ullman**, & J.A.G. Lum. (2015) The relation between receptive grammar and procedural, declarative, and working memory in specific language impairment. *Frontiers in Psychology*, 6, article 1090, 2015.

Sandberg, K., Umans, J. G., & The Georgetown Consensus Conference Work Group\*. (2015) Recommendations concerning the new U.S. National Institutes of Health initiative to balance the sex of cells and animals in preclinical research. *The FASEB Journal*. 29, 1646-1652. \* \*Work Group Member: M.T. Ullman

D. Németh, K. Janacsek, Z. Turi, A. Lukacs, D. Peckham, S. Szanka, D. Gazso, N. Lovassy and **M. T. Ullman**. (2015) The production of nominal and verbal inflection in an agglutinative language: Evidence from Hungarian. *Plos ONE*. 10(3), e0119003. doi:10.1371/journal.pone.0119003

**M.T. Ullman** and M.Y. Pullman (2015). A compensatory role for declarative memory in neurodevelopmental disorders. *Neuroscience and Biobehavioral Reviews*, 51, 205-222. PMCID: PMC4359651

J.A.G. Lum, **M.T. Ullman**, & G. Conti-Ramsden. (2015) Verbal declarative memory impairments in specific language impairment are related to working memory deficits. *Brain and Language*, 142, 76-85.

Clark, G.M., Lum, J. A. G., & **Ullman, M. T.** (2014). A Meta-Analysis and Meta-Regression of Serial Reaction Time Task Performance in Parkinson's Disease. *Neuropsychology*. 28(6). 945–958

Walenski, M., Mostofsky, S. H. & **Ullman, M. T.** (2014). Inflectional morphology in high-functioning autism: Evidence for speeded grammatical processing. *Research in Autism Spectrum Disorders*. 8, 1607–1621

Lum, J. A. G., Conti-Ramsden, G.M., Morgan, A. T., & **Ullman, M. T.** (2014). Procedural learning deficits in Specific Language Impairment (SLI): A meta-analysis of serial reaction time task performance. *Cortex*. 51, pp 1-10.

**M.T. Ullman**. (2013). The role of declarative and procedural memory in disorders of language. *Linguistic Variation*, 13(2), 133-154 (In Three Factors and Beyond: Language development and impairment. Special issue edited by K. Grohmann). This paper is an updated version of a chapter published of in the *Handbook of the Neuroscience of Language* in 2008; see below.

H.W. Bowden, K. Steinhauer, C. Sanz, **M.T. Ullman** (2013). Native-like brain processing of syntax can be attained by university foreign language learners. *Neuropsychologia*. 51(13), pp 2492-2511.

C.D. Dye, M. Walenski, S.H. Mostofsky, and **M.T. Ullman** (2013). Children's computation of complex linguistic forms: A study of frequency and imageability effects. *PLoS ONE*. 8(9), e74683.

Hedenius, M., Persson, J., Alm, P. A., **Ullman, M. T.**, Howard, J. H., Howard, D. V., and Jennische, Margareta (2013). Impaired Implicit Sequence Learning in Children with Developmental Dyslexia. *Research in Developmental Disabilities*. 34, 3924–3935.

J.A.G. Lum, M.T. Ullman, and G. Conti-Ramsden (2013). Procedural learning is impaired in dyslexia: Evidence from a meta-analysis of serial reaction time studies. *Research in Developmental Disabilities*, 34(10), 3460–3476.

M. Hedenius, **M.T. Ullman\***, P. Alm, M. Jennische\*, and J.Persson\* (2013). Enhanced Recognition Memory after Incidental Encoding in Children with Developmental Dyslexia. *PLoS ONE*. 8(5): e63998. (\*co-senior authors)

J.A.G. Lum, G. Conti-Ramsden, and **M.T. Ullman**. (2013). The role of verbal and nonverbal memory in the Family Pictures Subtest: Data from children with specific language impairment. *Child Neuropsychology*. 19(6), 648–661.

Prado, E.L., Alcock, K.J., Muadz, H., **Ullman, M.T.**, and Shankar, A.H. for the SUMMIT Study Group. (2012). Multiple Micronutrient Supplementation in Pregnancy and Child Cognition: A Randomized Trial in Indonesia. *Pediatrics*. 130(3). e536-e546.

L. Babcock, J.C. Stowe, C.J. Maloof, C. Broveto, and **M.T. Ullman** (2012). The storage and composition of inflected forms in adult-learned second language: A study of the influence of length of residence, age of arrival, sex, and other factors. *Bilingualism: Language and Cognition*. 15(4). 820-840.

L Phillips, K.A. Litcofsky, M. Pelster, M. Gelfand, **M.T. Ullman\***, & P.D. Charles\* (2012). Subthalamic nucleus deep brain stimulation impacts language in early Parkinson's disease. *PLoS ONE*, 7(8). e42829. (\*co-senior authors)

D. Németh, C.D. Dye, T. Sefcsik, K. Janacsek, Z. Turi, Z. Londe, P. Klivenyi, T. Kincses, S. Nikoletta, L. Vecsei and **M. T. Ullman**. (2012) Language deficits in Pre-Symptomatic Huntington's Disease: Evidence from Hungarian. *Brain and Language*. 121(3), 248-253. PMID: PMC3350800. NIHMSID: NIHMS372851.

J.A.G. Lum, G. Conti-Ramsden, D. Page and **M.T. Ullman**. (2012). Working, Declarative and Procedural Memory in Specific Language Impairment. *Cortex*, 48, 1138-54.

Fourth most downloaded article in 2013 from all Elsevier behavioural and cognitive neuroscience journals.

A.J. Newman, A. Tremblay, E.S. Nichols, H.J. Neville and **M.T. Ullman**. (2012). The Influence of Language Proficiency on Lexical-Semantic Processing in Native and Late Learners of English: ERP evidence. *Journal of Cognitive Neuroscience*. 24(5). 1205-1223.

K. Morgan-Short, I. Finger, S. Grey, and **M.T. Ullman** (2012). Second Language Processing Shows Increased Native-Like Neural Responses after Months of No Exposure. *PLoS ONE*, 7(3). e32974.

Prado, E.L., **Ullman, M.T.**, Muadz, H., Alcock, K.J., Shankar, A.H., and the SUMMIT Study Group. (2012). The Effect of Maternal Multiple Micronutrient Supplementation on Cognition and Mood During Pregnancy and Postpartum in Indonesia: A Randomized Trial. *PLoS ONE*. 7(3). e32519.

K. Morgan-Short, K. Steinhauer, C. Sanz, and **M.T. Ullman** (2012). Explicit and implicit second language training differentially affect the achievement of native-like brain activation patterns. *Journal of Cognitive Neuroscience*, 24(4), 933-947.

Finger, I., K. Morgan-Short, S. Grey, and **M.T. Ullman** (2011). SQUIB: Processamento em L2 apresenta ativação neural semelhante à da L1 após meses de ausência de exposição à lingual. *Revista Linguística*, 7(2). 7-17.

M. Hedenius, J.Persson, A.Tremblay, E. Adi-Japha, J. Veríssimo, C.D. Dye, P. Alm, M. Jennische, J.B. Tomblin, and **M.T. Ullman** (2011). Grammar Predicts Procedural Learning and Consolidation Deficits in Children with Specific Language Impairment. *Research in Developmental Disabilities*, 32. 2362–2375. NIHMSID: NIHMS318634. PMCID: PMC3191257. PMID: 21840165

K. Steinhauer, J. Drury, P.Portner, M. Walenski, & **M.T. Ullman** (2010). Syntax, concepts and logic in the the temporal dynamics of language comprehension: Evidence from event-related potentials. *Neuropsychologia*, 48. 1525-1542. NIHMSID: 177473. PMCID: 2862874. PMID: 20138065.

H.W. Bowden, M.P. Gelfand, C. Sanz, **M.T. Ullman** (2010). Verbal Inflectional Morphology in L1 and L2 Spanish: A Frequency Effects Study Examining Storage versus Composition. *Language Learning*, 60(1). 44-87. NIHMSID: 160640. PMCID: 2857739. PMID: 20419083.

K. Morgan-Short, C. Sanz, K. Steinhauer, **M.T. Ullman** (2010). Second Language Acquisition of Gender Agreement in Explicit and Implicit Training Conditions: An Event-Related Potential Study. *Language Learning*, 60(1). 154-193. NIHMSID: 269511. PMCID: 3044320. PMID: 21359123.  
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M. Walenski, T.W. Weickert, C.J. Maloof, **M.T. Ullman** (2010). Grammatical processing in schizophrenia: Evidence from morphology. *Neuropsychologia*, 48. 262-269. NIHMSID: 146536. PMCID: 2794971. PMID: 19766129.

E.L. Prado, S. Hartini, A. Rahmawati; E. Ismayani, A. Hidayati, N.I Hikmah, H.Muadz, PhD, M.S Apriatni; **M.T Ullman**, A.H Shankar, K.J Alcock (2010). Test selection, adaptation, and evaluation: three critical steps to assess nutritional influences on child development in developing countries. *British Journal of Educational Psychology*. 80. 31-53. PMID: 19772714.

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E.L. Prado, **M.T. Ullman**. (2009). Can imageability help us draw the line between storage and composition? *Journal of Experimental Psychology: Learning, Memory and Cognition*. 35 (4). 849-866. PMID: 19586257.

S.L. Skelley, R.A. Miranda, **M.T. Ullman**, J.A. Apud, D.R. Weinberger and B. Elvevåg. (2009) Where words fail, music speaks: Isolated memory processes in a musical patient with schizophrenia. *Schizophrenia Research*. 110 (1). 197-199. NIHMSID: 121460. PMCID: 2731798. PMID: 19304456.

M. Walenski, K. Sosta, S. Cappa, and **M.T. Ullman**. (2009). Deficits on irregular verbal morphology in Italian-speaking Alzheimer's disease patients: Evidence from present tense and past participle production. *Neuropsychologia*. 47. 1245–1255. NIHMSID: 178640. PMCID: 2866427. PMID: 19428387.

Walenski, M., Mostofsky, S. H., Larson, J. C. G., and **M.T. Ullman** (2008). Enhanced picture naming in autism. *Journal of Autism and Developmental Disorders*. 38. 1395-99. NIHMSID: 108210. PMCID: 2693347. PMID: 18163206.

Miranda, R.A and **M.T. Ullman** (2007). Double dissociation between rules and memory in music: an event-related potential study. *NeuroImage*. 38 (2). 331-345. NIHMSID: 33924. PMCID: 2186212. PMID: 17855126.

Walenski, M., Mostofsky, S. H., and **M.T. Ullman** (2007). Speeded processing of grammar and tool knowledge in Tourette's syndrome. *Neuropsychologia*. 45. 2447–2460. NIHMSID: 25751. PMCID: 1955429. PMID: 17493643.

A.J. Newman, **M.T. Ullman**, R. Pancheva, D.L. Waligura, and H.J. Neville. (2007). An ERP study of regular and irregular English past tense inflection. *Neuroimage*. 34. 435-445. NIHMSID: 14588. PMCID: 1988695. PMID: 17070703.

**M.T. Ullman**. (2006) Is Broca's area part of a basal ganglia thalamocortical circuit? *Cortex*. 42, 480-485 (Special issue on "Integrative models of Broca's and the ventral premotor cortex", edited by R. Schubotz and C. Fiebach). PMID: 16881254.

J.K. Hartshorne and **M.T. Ullman**. (2006). Why girls say "holded" more than boys. *Developmental Science*. 9 (1). 21-32. PMID: 16445392.

M. Walenski and **M.T. Ullman**. (2005). The science of language. *The Linguistic Review*. (Special issue on the role of Linguistics in Cognitive Science). 22 (2-4). 327-346.

**M.T. Ullman** and E. Pierpont. (2005). Specific Language Impairment is not Specific to Language: The Procedural Deficit Hypothesis. *Cortex*. 41. 399-433. (Special Issue: "The Neurobiology of Developmental Disorders", edited by D. Bishop, M. Eckert, and C. Leonard.). PMID: 15871604.

Accompanying commentary requested by the editors: M.S.C. Thomas. (2005). Characterising Compensation. *Cortex*. 41. 434-442.

**M.T. Ullman**, R. Pancheva, T. Love, E. Yee, D. Swinney, and G. Hickok. (2005). Neural correlates of lexicon and grammar: Evidence from the production, reading and judgment of inflection in aphasia. *Brain and Language*. 93(2). 185-238. PMID: 15781306.

Accompanying commentaries requested by the editor:

B. MacWhinney. (2005). Commentary on Ullman et al. *Brain and Language*. 93(2). 239-242.

D. Embick and A. Marantz. (2005). Cognitive neuroscience and the English past tense: Comments on the paper by Ullman et al.. *Brain and Language*. 93(2). 243-247.

Response to these commentaries (also see below): **M.T. Ullman** and M. Walenski. (2005). Moving past the past tense. *Brain and Language*. 93(2). 248-252.

**M.T. Ullman**. Contributions of memory circuits to language: the declarative/procedural model. (2004). *Cognition*. 92. 231-270. (Special issue of *Cognition*, "Towards a New Functional Anatomy of Language", edited by G. Hickok and D. Poeppel.) PMID: 15037131.

Also published in *Linguistics and the Study of the Mind (Taalwetenschap en de Wetenschap van de Geest)* (Ed. M. Everaert), Urecht Institute of Linguistics OTS, Utrecht University, Utrecht, The Netherlands.

Steven Pinker and **M.T. Ullman**. The past and future of the past tense, (2002). *Trends in Cognitive Sciences*. 6(11). 456-463. PMID: 12457895.

This target article was accompanied by three other articles in the same issue. Together the four articles constituted a debate on the computation, representation and neural bases of inflectional morphology, as a case study of the neurocognition of language. The three other articles were:

A target article presenting an opposing perspective: J.L. McClelland, and K. Patterson, (2002). Rules or connections in past-tense inflections: what does the evidence rule out? *Trends in Cognitive Sciences*, 6(11), 465-472.

A response to this article: Steven Pinker and **M.T. Ullman**. Combination and structure, not gradedness, is the issue. (2002). *Trends in Cognitive Sciences*. 6(11). 472-474.

A response by McClelland and Patterson to the Pinker and Ullman target article: J.L. McClelland and K. Patterson. (2002). Words or Rules cannot exploit the regularity in exceptions: Reply to Pinker and Ullman. *Trends in Cognitive Sciences*, 6(11), 464-465.

**M.T. Ullman**. (2001). A neurocognitive perspective on language: the declarative/procedural model. *Nature Reviews Neuroscience*. 2. 717-726. PMID: 11584309.

E.A. Kensinger, **M.T. Ullman**, and S. Corkin. (2001). Bilateral medial temporal lobe damage does not affect lexical or grammatical processing: Evidence from the amnesic patient H.M. *Hippocampus*. 11. 347-360. PMID: 11530839.

**M.T. Ullman**. (2001). The neural basis of lexicon and grammar in first and second language: The declarative/procedural model. *Bilingualism: Language and Cognition*. 4(1). 105-122.

A.J. Newman, R. Izvorski-Pancheva, K. Ozawa, H. Neville, **M.T. Ullman**. (2001). An event-related study fMRI study of syntactic and semantic violations. *Journal of Psycholinguistic Research*. 30(2). 339-364. PMID: 11523278.

H.K.J. van der Lely and **M.T. Ullman**. (2001). Past Tense Morphology in Specifically Language Impaired and Normally Developing Children. *Language and Cognitive Processes*. 16(2). 177-217.

K. Steinhauer, R. Pancheva, A.J. Newman, S. Gennari, and **M.T. Ullman**. (2001). How the mass counts: An electrophysiological approach to the processing of lexical features. *Neuroreport*. 12(5). 999-1005. PMID: 11303776.

**M.T. Ullman**. (2001). The Declarative/Procedural Model of Lexicon and Grammar. *Journal of Psycholinguistic Research*. 30(1). 37-69. PMID: 11291183.

**M.T. Ullman** and M. Gopnik. (1999). Inflectional morphology in a family with inherited specific language impairment. *Applied Psycholinguistics*, 20(1) 51-117.

**M.T. Ullman**. (1999). Acceptability ratings of regular and irregular past tense forms: Evidence for a dual-system model of language from word frequency and phonological similarity effects. *Language and Cognitive Processes*, 14(1) 47-67.

**M.T. Ullman**, S. Corkin, M. Coppola, M. Hickok, J.H. Growdon, W.J. Koroshetz, and S. Pinker. (1997) A neural dissociation within language: Lexicon a part of declarative memory, grammar processed by procedural system. *Journal of Cognitive Neuroscience*, 9(2) 266-276.

Paper selected for press release by the *Society for Neuroscience*.

Paper translated into Hungarian: Neurológiai szétválás a nyelven belül: Bizonyítékok arra, hogy a mentális szótár a deklaratív memória része, a nyelvtani szabályokat pedig a procedurális rendszer működteti, pp 443-467, in *Nyelvi Struktúrák és az Agy: Neurolingvisztikai Tanulmányok* (Reader on Neurolinguistics), Zoltán Bánréti (Ed.), 1998.

G.F. Marcus, S. Pinker, **M.T. Ullman**, M. Hollander, J.T. Rosen, and F. Xu. (1992) Overregularization in language acquisition. *Monographs of the Society for Research in Child Development*, 228.

Also appeared as: MIT Center for Cognitive Science Occasional Paper #41.

#### PEER-REVIEWED PUBLICATIONS IN CONFERENCE PROCEEDINGS (10)

D. Németh, Dye, C., Gardian, G., Klivényi, P., Sefcsik, T., Ambrus, G., Lukas, A., Vécsei, L. & **Ullman M.T.** (2008) Functional morphology in pre-symptomatic Huntington's Disease: Evidence from Hungarian. Proceedings of the Thirty-Eighth Western Conference on Linguistics. pp. 241-251.

C. Brovetto and **M.T. Ullman**. (2005). The mental representation and processing of Spanish verbal morphology. *Proceedings of the Seventh Hispanic Linguistics Symposium*. Cascadilla Press. Somerville, MA. pp 98-105.

**M.T. Ullman**, I.V. Estabrooke, K. Steinhauer, C. Brovetto, R. Pancheva, K. Ozawa, K. Mordecai, P. Maki. (2002). Sex differences in the neurocognition of language. *Brain and Language*. 83. 141-143.

J.E. Drury and **M.T. Ullman**. (2002). The Memorization of Complex Forms in Aphasia: Implications for Recovery. *Brain and Language*. 83. 139-141.

K. Steinhauer and **M.T. Ullman**. (2002). Consecutive ERP effects of morpho-phonology and morpho-syntax. *Brain and Language*. 83. 62-65.

I.V. Estabrooke, K. Mordecai, P. Maki, and **M.T. Ullman**. (2002). The effect of sex hormones on language processing. *Brain and Language*. 83. 143-146.

**M.T. Ullman**. (1999). Naming tools and using rules: Evidence that a frontal/basal-ganglia system underlies both motor skill knowledge and grammatical rule use. *Brain and Language*. 69(3) 316-318.

R. Izvorski and **M.T. Ullman**. (1999). Verb inflection and the hierarchy of functional categories in agrammatic anterior aphasia. *Brain and Language*. 69(3) 288-291.

H. van der Lely and **M.T. Ullman**. (1996). The computation and representation of past-tense morphology in specifically language impaired and normally developing children. *Proceedings of the 20th Annual Boston University Conference on Language Development*. Volume 2. pp 804-815. Cascadilla Press. Somerville, MA.

**M.T. Ullman** and M. Gopnik. (1994). The Production of Inflectional Morphology in Hereditary Specific Language Impairment. *The McGill Working Papers in Linguistics, Volume 10: Special issue on familial language impairment*. 81-118. Montreal.

#### PEER-REVIEWED BOOK CHAPTERS (14)

**M.T. Ullman**. (2016). The declarative/procedural model: A neurobiological model of language learning, knowledge and use. In G.S. Hickok & S.L. Small (Ed.), *The Neurobiology of Language*. Elsevier. pp.953-68.

**M.T. Ullman**. (2015). The Declarative/Procedural Model: A Neurobiologically-Motivated Theory of First and Second Language. In B. VanPatten and J. Williams (Ed.), *Theories in Second Language Acquisition*, 2<sup>nd</sup> edition. Routledge. pp. 135-158

**M.T. Ullman**. (2014). Language and the brain. In J. Connor-Linton & R.W. Fasold (Eds.), *An Introduction to Language and Linguistics, 2<sup>nd</sup> Edition*. Cambridge University Press, Cambridge, UK. pp. 249-86.

**Ullman, M. T.**, Lum, J. A. G., & Conti-Ramsden, G. & (2014). Domain specificity in language development. In P. Brooks, V. Kempe, & J.G. Golson (Ed.), pp. 163-166. *Encyclopedia of Language Development*. SAGE Publications, Los Angeles.

**M.T. Ullman**. (2013). The declarative/procedural model of language. In H. Pashler (Ed.), *Encyclopedia of the Mind*. Sage Publications, Los Angeles. pp. 224-226

**M.T. Ullman.** (2013). The declarative/procedural model. In P. Robinson (Ed.), *Routledge Encyclopedia of Second Language Acquisition*. Routledge. 160-164.

K. Morgan-Short and **M.T. Ullman.** (2011). The Neurocognition of Second Language. In A. Mackey & S. Gass (Eds.), *Handbook of Second Language Acquisition*. Routledge. 282-299. This book was awarded the annual Kenneth W. Mildener Prize from the Modern Language Association.

**M.T. Ullman.** (2008). The role of memory systems in disorders of language. In B. Stemmer and H.A. Whitaker (Eds.), *Handbook of the Neuroscience of Language*. Elsevier Ltd, Oxford, UK. 189-198.

**M.T. Ullman,** R.A. Miranda and M. Travers. (2008). Sex Differences in the Neurocognition of Language. In J.B. Becker, K.J. Berkley, N. Geary, E. Hampson, J. Herman and E. Young (Eds.), *Sex on the Brain: From Genes to Behavior*. Oxford University Press, NY NY. 291-309.

**M.T. Ullman.** (2007). The biocognition of the mental lexicon. In G. Gaskell (Ed.), *The Oxford Handbook of Psycholinguistics*. Oxford University Press, Oxford, UK. 267-286.

M. Walenski, H. Tager-Flusberg, and **M.T. Ullman.** (2006). Language in Autism. In S.O. Moldin and J.L.R. Rubenstein (Ed.), *Understanding Autism: From Basic Neuroscience to Treatment*. Taylor and Francis Books, Boca Raton FL.

**M.T. Ullman.** (2006). Language and the brain. In J. Connor-Linton and R.W. Fasold (Ed.), *An Introduction to Language and Linguistics*. Cambridge University Press, Cambridge, UK. 235-274.

**M.T. Ullman.** (2005) A Cognitive Neuroscience Perspective on Second Language Acquisition: The Declarative/Procedural Model. In C. Sanz (Ed.), *Mind and Context in Adult Second Language Acquisition: Methods, Theory, and Practice*. Georgetown University Press, Washington DC. 141-178. This book was awarded the annual Kenneth W. Mildener Prize from the Modern Language Association.

**M.T. Ullman.** (2000). A Mental Model of Morphology: The Psychological and Neural Bases of the Computation of Complex Words. In K.K. Grohmann & C. Struijke (Eds.), *University of Maryland Working Papers in Linguistics, Volume 10. Special Issue: Proceedings of the Maryland Mayfest on Morphology 1999*. 127-156.

#### COMMENTARIES, REPLIES, COLUMNS, BOOK REVIEWS AND INTERVIEWS (12)

P. Hamrick and **M.T. Ullman.** (In Press). A neurocognitive perspective on retrieval interference in L2 sentence processing. *Bilingualism: Language and Cognition*.



**M.T. Ullman** and M.Y. Pullman. (2015). Adapt and Overcome: Can a single brain system compensate for autism, dyslexia and OCD? *Scientific American Mind*. July/August, 2015. pp. 24-25.

**M. Ullman** and M.Y. Pullman. (2015). Powerful memory system may compensate for autism's deficits. SFARI (Simons Foundation Autism Research Initiative) Newsletter. March 17, 2015.

**M.T. Ullman** (2011). EntreviSta: Michael Ullman. *Revista Lingüística*, 7(2). 1-6.

**M.T. Ullman**. (2006). The Declarative/Procedural Model and the Shallow-Structure Hypothesis. (Commentary on target article by H. Clahsen and C. Felser) *Applied Psycholinguistics*. 27(1). 97-105.

**M.T. Ullman**. (2005). More is sometimes more: Redundant mechanisms in the mind and brain. (Invited Presidential Column) *APS (American Psychology Association) Observer*. December 2005. 18(12). 4 continued on 46.

**M.T. Ullman**. (2005). Sex Differences in the Mind and Brain. (Research Focus column) *Center for the Study of Sex Differences Quarterly*. Fall 2005. 4.

**M.T. Ullman** and M. Walenski. (2005). Moving past the past tense. (Reply) *Brain and Language*. 93(2). 248-252.

Steven Pinker and **M.T. Ullman**. (2003). Beyond one model per phenomenon. (Reply) *Trends in Cognitive Sciences*. 7(3), 108-109

**M.T. Ullman** and R. Izvorski. (2000). What is special about Broca's area? (Commentary on target article by Y. Grodzinsky) *Behavioral and Brain Sciences*. 23(1) 52-54.

**M.T. Ullman**. (2000). How the brain made language. (Book review) *Science*. 289(5477) 251-252.

**M.T. Ullman**. (1999). The functional neuroanatomy of inflectional morphology. (Commentary of target article by C. Clahsen) *Behavioral and Brain Sciences*. 22(6). 1041-1042.

## **ABSTRACTS (POSTERS AND PRESENTATIONS)**

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R. Bergida, K. O'Craven, R. Savoy, and **M.T. Ullman**. Distinct fMRI activation patterns for regular and irregular forms in frontal and temporal lobe regions. Proceedings of the 5th Annual Meeting of the Cognitive Neuroscience Society. 1998.

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**M.T. Ullman** and S. Pinker. Connectionism versus symbolic rules in language: The English past tense as a case study. Spring Symposium of the American Association for Artificial Intelligence, Stanford University, California. 1991.

## **PROFESSIONAL EXPERIENCE IN COMPUTER SCIENCE AND MANAGEMENT**

Data Acquisition Systems, Inc. 1982-1985.

Vice-President of Product Development. 1984-1985. Responsible for product definition, design, implementation and testing. Managed departments of Applications Software, Systems Software, Hardware, Quality Assurance and Publications. Headed development of the ICON/1000 distributed control system (a multi-station networked computerized control system for the automated control of continuous processes such as the manufacture of pharmaceutical and biotechnological products). Designed the Computer Aided Process Engineering (CAPE) software (an icon-based diagrammatic control language and operator interface which became an industry standard over the following years).

Director of Software Development. 1982-1983. Responsible for product definition, design, implementation and testing. Managed department of Software Development; responsibilities included hiring, project scheduling and budgeting. Designed Soft500, a multitasking data acquisition version of BASIC (used by researchers in academia and industry in the US and Europe).

## **PUBLICATIONS AND PRESENTATIONS IN RELATED FIELDS**

**M.T. Ullman.** Whither Machine Translation? 3rd Annual Japan Association for Mathematical Sciences Japan-US Seminar, Nagano Prefecture, Japan. 1989.

**M.T. Ullman.** Computer Aided Process Engineering. Control Exposition, Rosemont Exposition Center, Chicago. 1985.

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