Sung-Joo Lim, PhD

Department of Psychology
Harpur College of Arts and Science
Binghamton University
State University of New York
Binghamton, NY

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RESEARCH INTERESTS

Auditory and speech processing, auditory selective attention and short-term memory processes, role of experience in shaping perceptual representations, foreign speech learning, auditory learning and categorization, implicit vs. explicit learning, neuro-cognitive mechanisms of auditory and speech processing revealed through fMRI and EEG

ACADEMIC EMPLOYMENT

2021 – Present **Assistant Professor**
Department of Psychology
Binghamton University, Binghamton, NY

2019 – 2020 **Research Assistant Professor**
Department of Speech, Language & Hearing Sciences
Boston University, Boston, MA

2017 – 2018 **Postdoctoral Fellow**
Department of Speech, Language & Hearing Sciences
Boston University, Boston, MA

2014 – 2016 **Postdoctoral Fellow**
Max Planck Research Group "Auditory Cognition"
Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany
Department of Psychology, University of Lübeck, Lübeck, Germany

EDUCATION

2013 **Ph.D., Psychology**
Carnegie Mellon University, Pittsburgh, PA
Center for the Neural Basis of Cognition, Pittsburgh, PA
Thesis: *Investigating the Neural Basis of Sound Category Learning within a Naturalistic Incidental Task*

2005 **B.Sc., Computer Science**
Carnegie Mellon University, Pittsburgh, PA

AWARDS & HONORS

2022 Individual Development Awards (IDA), New York State / United University Professions
2020 New Century Scholars Research Grant, American Speech-Language-Hearing Association
2018 Conference Fellowship, "Lessons for Success" Workshop, ASHA/NIDCD
2017 – 2018 Advanced Research Training in Communication Sciences and Disorders (T32), NIH
2013 Graduate Student Abstract Merit Award, Society for the Neurobiology of Language
2011 – 2013 The Richard King Mellon, the Presidential Fellow Award, CMU
2011 – 2013 Multimodal Neuroimaging Training Program Training Grant, NIH

2011	NIH National Graduate Student Research Conference Presenter and Travel Award
2009 – 2011	Integrative Graduate Education and Research Traineeship (IGERT), NSF
2007 – 2009	Behavioral Brain (B^2) Research Training Grant, NIH
2009	Travel Award, CMU Graduate Student Association
2004	School of Computer Science Dean's List, CMU

RESEARCH FUNDING

2020 – 2022 New Century Scholars Research Grant PI: Sung-Joo Lim
American Speech-Language-Hearing Foundation
Neural Systems for Attentional Control in Speech Processing
Role: Principal Investigator
Total Costs: $25,000

2018 – 2020 NSF BCS 1840674 PI: Andrew Oxenham
National Science Foundation
NeuroDataRR. Collaborative Research: Testing the relationship between musical training and enhanced neural coding and perception in noise
Role: Co-Investigator
Total Costs: $600,000

Submitted & Pending Awards

NIH R01 DC019344 PI: Tyler Perrachione
National Institute of Health Deafness and Communication Disorders
The role of talker cues in speech processing in normal and impaired hearing
Role: Co-Investigator
Requested: $2,062,500

NIH R21 DC019194 PI: Sung-Joo Lim
National Institute of Health Deafness and Communication Disorders
Neural systems for attentional control in speech processing
Role: Principal Investigator
Requested: $300,000

INVITED TALKS & PRESENTATIONS

Invited and Extramural Talks

2021	Symposium for Cognitive Auditory Neuroscience
2020	University of Texas at Austin, Department of Linguistics
2020	Columbia University, Barnard College
2020	University of Texas, Dallas, Speech, Language, and Hearing Sciences
2020	Florida State University, Department of Psychology
2019	Binghamton University, Department of Psychology
2019	Ohio State University, Center for Cognitive and Brain Sciences
2019	Daegu Technopolis Grand Innovation Festival (DGIF) 2019 (Daegu, Korea)
2019	International Congress on Acoustics (ICA) 2019 (Aachen, Germany)
2019	University of Florida, Department of Speech, Language, and Hearing Sciences
2019	University College London, Speech Hearing and Phonetic Sciences
2019	University of California San Diego, Department of Cognitive Science
2016	Basque Center on Cognition, Brain and Language (Donostia-San Sebastian, Spain)

2015 Korea University, Department of Psychology, (Seoul, Korea)
2015 Yonsei University, Department of Psychology (Seoul, Korea)
2014 Max Planck Institute for Human Cognitive and Brain Sciences (Leipzig, Germany)
2012 Eastern Psychological Association (Pittsburgh, PA)
2009 Acoustical Society of America, Cross-language Speech Workshop (Portland, OR).

Intramural Talks

2019 Boston University, SLHS Research Colloquium Series
2017 Boston University, CRESCENT Auditory Working Memory Workshop
2016 University of Lübeck, CBBM Colloquium
2011 Carnegie Mellon University, Department of Modern Languages (Pittsburgh, PA).

PUBLICATIONS

Lim, S.-J., Thiel, C., Sehm, B., Deserno, L., Lepsien, J., & Obleser, J. (2022). Distributed networks for auditory memory differentially contribute to recall precision. *NeuroImage*. *256,* 119227.

Beach, S.D., **Lim, S.-J.,** Cardenas-Iniguez, C., Eddy, M.D., Gabrieli, J.D.E., & Perrachione, T.K. (2022). Electrophysiological correlates of perceptual prediction error are attenuated in dyslexia. *Neuropsychologia*. *165*(28), 108091.

Lim, S.-J., Carter, Y.D., Njoroge, J.M., Shinn-Cunningham, B.G., & Perrachione, T.K. (2021). Talker discontinuity disrupts attention to speech: Evidence from EEG and pupillometry. *Brain & Language*. *221*, 104996.

Lim, S.-J., Fiez, J. A., & Holt, L. L. (2019). The role of the striatum in incidental learning of sound categories. *Proceedings of the National Academy of Sciences of the United States of America. 116*(10), 4671–4680.

Lim, S.-J., Shinn-Cunningham, B. G., & Perrachione, T. K. (2019). Effects of talker continuity and stimulus rate on auditory working memory. *Attention Perception and Psychophysics*. *81*(4), 1167–1177.

Lim, S.-J., Wöstmann, M., Geweke, F. & Obleser, J. (2018). The benefit of attention-to-memory depends on the interplay of memory capacity and memory load. *Frontiers in Psychology*. 9, 184.

Alavash, M.*, **Lim, S.-J**.*, Thiel, C., Sehm, B., Deserno, L., & Obleser, J. (2018). Dopaminergic modulation of signal variability and functional connectome during cognitive performance. *NeuroImage*. 172, 341–356. (*equal contribution)

Wöstmann, M., **Lim., S.-J.**, & Obleser, J. (2017). The human neural alpha response to speech is a proxy of attentional control. *Cerebral Cortex*. 27(6), 3307-3317.

Lim, S.-J., Wöstmann, M., & Obleser, J. (2015). Selective attention to auditory memory neurally enhances perceptual precision. *Journal of Neuroscience*. *35*(49), 16904–16104.

Lim, S.-J., Lacerda, F., & Holt, L. L. (2015). Discovering functional units in continuous speech. *Journal of Experimental Psychology: Human Perception and Performance*. *41*(4), 1139-1152.

Guediche, S., Holt, L. L., Laurent, P., **Lim, S.-J.**, & Fiez, J. A. (2015). Evidence for cerebellar contributions to adaptive plasticity in speech perception. *Cerebral Cortex. 25*(7): 1867-1877.

Lim, S.-J., Fiez, J. A., & Holt, L. L. (2014). How may the basal ganglia contribute to auditory categorization and speech perception?. *Frontiers in Neuroscience*. *8:*240.

Lim, S.-J. & Holt, L. L. (2011). Learning foreign sounds in an alien world: Videogame training improves non-native speech categorization. *Cognitive Science. 35*, 1390-1405.

PEER-REVIEWED CONFERENCE PROCEEDINGS

Lim, S.-J., Tin, J. A. A., Qu, A., & Perrachione, T. K. (2019). Attentional reorientation explains processing costs associated with talker variability. *19th International Congress of Phonetic Sciences (ICPhS)*, Melbourne, August 2019.

Carter, Y. D., **Lim, S.-J.**, & Perrachione, T. K. (2019). Talker continuity facilitates speech processing independent of listeners' expectations. *19th International Congress of Phonetic Sciences (ICPhS)*, Melbourne, August 2019.

Kimball, G., Cano, R., Feng, J., Feng, L., Hampson, E., Li, E., Christel, M. G., Holt, L. L., **Lim, S.-J.**, Liu, R., Lehet, M. (2013). Supporting research into sound and speech learning through a configurable computer game. *Proceedings of the IEEE Games Innovation Conference (IGIC)*, Vancouver, 2013.

McLaren, B.M., **Lim, S.-J.**, & Koedinger, K.R. (2008). When and how often should worked examples be given to students? New results and a summary of the current state of research. *Cognitive Science Society*.

McLaren, B. M., **Lim, S.-J.**, & Koedinger, K. R. (2008), When is Assistant Helpful to Learning? Results in Combining Worked Examples and Intelligent Tutoring. *Intelligent Tutoring Systems (ITS)*.

McLaren, B. M., **Lim, S.-J.**, Yaron, D., Koedinger, K. R. (2007). Can a Polite Intelligent Tutoring System Lead to Improved Learning Outside of the Lab?. *Artificial Intelligence in Education (AIED)*.

McLaren, B. M., **Lim, S.-J.**, Gagnon, F., Yaron, D., Koedinger, K. R. (2006). Studying the Effects of Personalized Language and Worked Examples in the Context of a Web-Based Intelligent Tutor. *Intelligent Tutoring Systems (ITS), (Finalist for the Best Paper Award)*.

MANUSCRIPTS

Under review

Villard, S., Perrachione, T.K., **Lim, S.-J.**, Alam, A., Kidd Jr, G. (under review). The effect of masker type on listening effort, as measured by electroencephalography and pupillometry.

Wu, Y.C., Liu, R., **Lim, S.-J.**, & Holt, L.L. (under review). Incidental versus passive statistical learning across continuous speech input in an active task

In preparation

Lim, S.-J., Babcock, S., Han, M., Salvatore, J. Minas, J.E., Finn, A.S., Gabrieli, J.D.E., Qi, Z., & Perrachione, T.K. (in prep). Neural responses during procedural memory tasks are related to foreign language learning outcomes.

Lim, S.-J., Shinn-Cunningham, B.G., & Perrachione, T.K. (in prep). Auditory stream discontinuity interferes with speech processing efficiency.

Lim, S.-J., Tin, J. A. A., Qu, A., & Perrachione, T.K. (in prep). Talker adaptation as allocation of attention.

Ozernov-Palchik, O., Lim, S.-J., Brown, M., Beach, S. D., Centanni, T., Gaab, N., Kuperberg, G., Gabrieli, J. D. E., & Perrachione, T.K. (in prep). Contextual adaptation in dyslexia across development.

Cater, Y.D., Lim, S.-J., & Perrachione, T.K. (in prep). Facilitation of speech processing by both expected and unexpected talker continuity.

Saupe, M., Choi, J.Y., Lim, S.-J., & Best, V. & Perrachione, T.K. (in prep). Speech perception in noise reveals dual mechanisms for talker adaptation.

TEACHING EXPERIENCE

Teaching interests

I am enthusiastic about teaching courses at a variety of levels, from introductory classes to specialized graduate- and advanced-level seminars, such as Cognitive Psychology (85-211), Perception (85-370), Biological Foundations of Behavior (85-219), and Research Methods courses in Cognitive Psychology and Cognitive Neuroscience Research (85-310/314). I am also excited to develop new seminars, such as auditory cognitive neuroscience, and neurobiology of speech, language, and hearing.

Courses taught

2022, Fall — Experimental Psychology: Cognition – PSYC 358 (Binghamton University)
Instructor (129 students, undergraduate)
Lecture course for psychology and integrative neuroscience majors

2022, Spring — Psycholinguistics – PSYC 510 (Binghamton University)
Instructor (graduate)
Graduate module course for doctoral students in Psychology covering psycholinguistics research from various perspectives – cognitive science, computational modeling, brain and behavior, cognitive neuroscience, and function and dysfunctions

2021, Fall — Experimental Psychology: Cognition – PSYC 358 (Binghamton University)
Instructor (188 students, undergraduate)
Lecture course for psychology and integrative neuroscience majors

2021, Spring — Neural Basis of Audition – PSYC 607A (Binghamton University)
Instructor (graduate)
Doctoral seminar course covering broad topics in auditory cognitive neuroscience

2019, Fall — Models of Language – SAR SH 708 (Boston University)
Instructor (41 students, graduate)
Lecture-based core course for master's students in the Speech-Language-Pathology program

Teaching assistantships

2010 — Research Methods in Cognitive Psychology – 85-310 (Carnegie Mellon University)
TA (~20 students, undergraduate)

2009 — Biological Foundations of Behavior – 85-219 (Carnegie Mellon University)
TA (~75 students, undergraduate)

2008 — Social Psychology – 85-219 (Carnegie Mellon University)
TA (~100 students, undergraduate)

MENTORING EXPERIENCE

Ph.D. Students

2022 – Present — David Peita
Doctoral Trainee, Binghamton University

2021 – Present — Lingyu Zi
Doctoral Trainee, Binghamton University

2022 – Present Travis Talcott
Doctoral Dissertation Proposal Committee, Binghamton University

2021 – Present Rachel Poirier
Doctoral Preliminary Committee, Binghamton University

Masters Students

2019 – 2020 Lue (Stella) Shen
Master's Thesis Committee, Boston University

2019 – 2020 Maya Saupe
Master's Thesis Committee, Boston University

2018 – 2019 Rita Sio Nga Kou
Master's Thesis Committee, Boston University

2018 – 2019 Alex Kapadia
Master's Thesis Committee, Boston University

2018 – 2019 Isabelle Nastaskin
Master's Thesis Committee, Boston University

2017 – 2018 Andrea Chang
Master's Thesis Committee, Boston University

Undergraduate Students

2022 – Present Theodore Mangini
Undergraduate Research Assistant, Binghamton University

2022 – Present Arianna Cole
Undergraduate Honor's Thesis Committee, Binghamton University

2022 – Present Sophia Panos
Undergraduate Research Assistant, Binghamton University

2022 – Present Alexandra Medvedeva
Undergraduate Research Assistant, Binghamton University

2021 – Present Min-Young Lee
Undergraduate Research Assistant, Binghamton University

2021 – Present Catherine Castañeda-LaMar
Undergraduate Research Assistant, Binghamton University

2021 – Present Catherine Marin
Undergraduate Research Assistant, Binghamton University

2021 – 2022 Issac Savelson
Undergraduate Honor's Thesis Committee, Binghamton University

2021 – 2022 Silma Subah
Undergraduate Honor's Thesis Committee, Binghamton University

2021 – 2022 Paul DiStefano
Undergraduate Research Assistant, Binghamton University

2021 – 2022 Annatje Clark
Undergraduate Research Assistant, Binghamton University

2021 – 2022 Tuojin Yin
Research Volunteer, Binghamton University

2021 Amanda Owens
Undergraduate Research Assistant, Binghamton University

2019 Chinazo Otiono
Undergraduate Research Opportunities Program, Boston University

2018 – 2019 Nichole Chen
Undergraduate Research Opportunities Program, Boston University

2017 – 2019 Joan (Michelle) Njoroge
Undergraduate Research Opportunities Program, Boston University

2017 – 2019 Allen Qu
Undergraduate Research Assistant, Boston University

2015 Frederik Geweke
Undergraduate Internship, Max Planck Institute, Leipzig, Germany

2014 Mirja Kuhlencord
Bachelor's Thesis, University of Leipzig, Leipzig, Germany

CONFERENCE PRESENTATIONS

Villard, S., Perrachione, T. K., Alam, A., **Lim, S.-J.**, Kidd, G. (2022). Modulation of pupil dilation and alpha power during masked speech perception reveal distinct neural mechanisms contributing to listening effort. *Society for the Neurobiology of Language* (Philadelphia, PA).

Villard, S., Perrachione, T. K., **Lim, S.-J.**, Alam, A., Kidd, G. (2021). Listening effort elicited by energetic versus informational masking. 181st Meeting of the Acoustical Society of America (Seattle, WA).

Whiteford, K.L., Baltzell, L.S., Cooper, J.K., Hagedorn, A., Irsik, V.C., Irvine, A., Mesik, J., Nolan, T., Oakes, B., Reed, A., Faucher, S., Schrlau, A.E., Van Hedger, S.C., Bharawadj, H.M., Johnsrude, I.S., Kidd, Jr., G., **Lim, S.-J.**, Luebke, A.E., Maddox, R.K., Marvin, E.W., Perrachione, T.K., Shinn-Cunningham, B.G., Oxenham, A.J. (2021). Association of musical training with auditory and speech neural coding and perception. 50th Annual Meeting of the Society for Neuroscience (Chicago, IL).

Lim, S.-J., Shinn-Cunningham, B.G., & Perrachione, T.K. (2020). Auditory stream discontinuities interfere with speech processing efficiency. 179th Meeting of the Acoustical Society of America (Online).

Lim, S.-J., Tin, J.A.A., Qu, A. & Perrachione, T.K. (2019). Processing talker variability as attentional reorientation. *Acoustical Society of America* (Louisville, KY).

Carter, Y. D., Kapadia, A. M., **Lim, S.-J.**, & Perrachione, T.K. (2019). Facilitation of speech processing by both expected and unexpected talker continuity. *Acoustical Society of America* (Louisville, KY).

Wu, Y.C., Liu, R., **Lim, S.-J.**, & Holt, L.L. (2019). Behavioral and electrophysiological evidence of incidental learning across continuous speech. *Association for Research in Otolaryngology* (Baltimore, MD).

Lim, S.-J., Tin, J.A.A., Shinn-Cunningham, B.G., & Perrachione, T.K. (2018). Impact of talker adaptation on speech processing and working memory. *Acoustical Society of America* (Minneapolis, MN).

Wu, Y.C., Liu, R., **Lim, S.-J.**, & Holt, L.L. (2018). Behavioral and electrophysiological evidence of incidental learning, generalization, and retention of speech categories from continuous speech. *Acoustical Society of America* (Minneapolis, MN).

Lim, S.-J., Tin, J.A.A., Shinn-Cunningham, B.G., & Perrachione, T.K. (2018). Impact of talker adaptation on speech processing and working memory. *Cognitive Neuroscience Society* (Boston, MA).

Lim, S.-J., Shinn-Cunningham, B., & Perrachione, T.K. (2017). Effects of voice continuity and stimulus rate on auditory working memory. *Advances and Perspectives in Auditory Neuroscience XV* (Washington, DC).

Alavash, M., **Lim, S.-J.**, Thiel, C., Sehm, B., Deserno, L., & Obleser, J. (2017). L-dopa modulates brain networks and signal variability in the listening brain. *Organization for Human Brain Mapping*. (Vancouver, Canada).

Lim, S.-J., Thiel, C., Sehm, B., Deserno, L., Lepsien, J., & Obleser, J. (2016). Effects of L-dopa on the benefit from attention to memory. *Society for Neuroscience*. (San Diego, CA).

Lim, S.-J., Wöstmann, M., Geweke, F. & Obleser, J. (2016). Does attention to objects in auditory working memory enhance perceptual precision?. *Cognitive Neuroscience Society* (New York, NY).

Wöstmann, M., Fiedler, L., **Lim, S.-J.**, & Obleser, J. (2016). The behavioural and neural fate of ignored speech. *Cognitive Neuroscience Society*. (New York, NY).

Lim, S.-J., Wöstmann, M., & Obleser, J. (2015). Evoked responses and alpha oscillations reflect the top-down modulation of working memory representations. *Society for Neuroscience*. (Chicago, IL).

Lim, S.-J., Lepsien, J., Wöstmann, M., & Obleser, J. (2015). Selective attention to memory representations of auditory objects. *Cognitive Neuroscience Society*. (San Francisco, CA)

Lim, S.-J., Fiez, J. A., & Holt, L. L. (2015). The Neural Basis of Sound Category Learning through an Incidental Task. *Korean Society for Cognitive and Biological Psychology*. (Jeju, S. Korea).

Lim, S.-J., Lotto, A.J., Obleser, J., & Holt, L. L. (2014). The development of internal representations of sound categories. *Society for the Neurobiology of Language* (Amsterdam, Netherlands).

Lim, S.-J., Holt, L. L., & Fiez, J. A. (2013). Context-dependent modulation of striatal systems during incidental auditory category learning. *Society for Neuroscience* (San Diego, CA).

Lim, S.-J., Fiez, J. A., & Holt, L. L. (2013). Investigating the role of speech-selective regions during videogame-based non-speech sound category acquisition. *Society for the Neurobiology of Language* (San Diego, CA).

Lim, S.-J., Fiez, J. A., Wheeler, M. E., & Holt, L. L. (2013). Investigating the Neural Basis of Video-game-based Category Learning. *Cognitive Neuroscience Society* (San Francisco, CA).

Holt, L. L., **Lim, S.-J.**, & Liu, R. (2012). Learning Foreign Sounds in an Alien World. Invited Presentation in the *Second Language Research Forum: Building* Bridges Between Disciplines, Second Language Acquisition in Many Contexts. (Pittsburgh, PA).

Lim, S-J., Fiez, J. A., & Holt, L. L. (2011). Investigating the Learning Mechanism of a Video Game Task. National Institute of Health (NIH) National Graduate Student Research Conference. (Bethesda, MD).

Lim, S.-J., Lacerda, F., Holt, L. L. (2011). Learning acoustically complex word-like units within a video-game training paradigm. *Acoustical Society of America* (Seattle, WA).

Lim, S.-J., Holt, L. L. (2009). Sensitivity to input distributions and decision boundaries in auditory category learning. *Acoustical Society of America* (San Antonio, TX).

Lim, S.-J., Holt, L. L. (2009). Effect of Video-game-based Training on Non-native Speech Contrasts. *Eastern Psychology Association* (Pittsburgh, PA).

Lim, S.-J., Holt, L. L. (2008). Learning non-native speech categories with a video game. *Psychonomics Society* (Chicago, IL).

INTRAMURAL SERVICE

2022 – Present	Empire Innovation Program (EIP) in Human Neuroscience Brain Imaging, Assistant and Associate Faculty Search Committee
2021 – 2022	Department of Psychology, Binghamton University, Colloquium Committee
2021	Department of Psychology, Binghamton University, Awards Committee

PROFESSIONAL AFFILIATIONS

Society for Neuroscience (SfN)
Society for the Neurobiology of Language (SNL)
Association for Psychological Science (APS)
Cognitive Neuroscience Society (CNS)
Acoustical Society of America (ASA)
International Phonetics Association (IPA)

ACADEMIC SERVICES

Extramural Service

2022 Raymond H. Stetson Scholarship in Phonetic and Speech Science Committee

2021 – Present Member, Speech Communication Technical Committee, Acoustical Society of America

Ad-hoc Reviewer

Cerebral Cortex
NeuroImage
Psychological Science
Cognition
Brain Research
Journal of Experimental Psychology: Learning, Memory, and Cognition
Frontiers in Human Neuroscience
PlosOne
Journal of Neuroscience
Neurobiology of Aging
Journal of the Acoustical Society of America
Brain and Language
Attention, Perception & Psychophysics
Psychological Research
Biological Psychology
Language Learning

REFERENCES

Lori L. Holt
Professor
Department of Psychology
Carnegie Mellon University
loriholt@cmu.edu

Jonas Obleser
Professor
Department of Psychology
University of Lübeck
jonas.obleser@uni-luebeck.de

Barbara G. Shinn-Cunningham
Professor
Director, Neuroscience Institute
Carnegie Mellon University
bgsc@andrew.cmu.edu

Julie A. Fiez
Professor
Chair, Department of Psychology
Department of Neuroscience
University of Pittsburgh
fiez@pitt.edu

Tyler K. Perrachione
Associate Professor
Department of Speech, Language, and Hearing Sciences
Boston University
tkp@bu.edu

PREVIOUS RESEARCH / WORK EXPERIENCE

2006 – 2007 **Full-Time Research Assistant**
Speech Perception & Learning Lab
Psychology, Carnegie Mellon University

2005 – 2007 **Full-Time Research Staff**
Pittsburgh Science of Learning Center
Human Computer Interaction Institute, Carnegie Mellon University

2005 **Research Intern/Programmer**
RADAR – Time & Space Project
Language Technologies Institute, Carnegie Mellon University

2004 – 2005 **Research Programmer**
ASDMCon Project – Graphical Tool Development
Robotics Institute, Carnegie Mellon University

OTHER INFORMATION

Languages: English, Korean
Platforms: Unix, Linux, Solaris, Windows, Mac OSX
Computer Language: MATLAB, Python, Java, C, C++, C#, SML, Assembly (IA 32), SQL, Lisp,
Software: R, SPSS, AFNI, Eclipse, Klatt (1988), Praat, Cool Edit, GDB, Intel Compiler, GCC, Visual .NET, MS Office