Maury A. Courtland

(Formerly: Maury Lander-Portnoy)
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Education

University of Southern California - **Ph.D.** in Linguistics Aug. 2014 - Aug. 2019
  Dissertation - *The role of individual variability in tests of functional hearing*
M.A. in Linguistics May 2016

M.S. in Computer Science Aug. 2018

Relevant Coursework: Machine Learning, Applied NLP, Foundations of AI, Comp. Ling., Neural Learning And Computational Intelligence, Affective Computing, Statistics

Haverford College - **B.A.** in Linguistics and Languages Aug. 2009 - Dec. 2012
  Thesis - *A Preliminary Phonetics, Phonology, and Morphology of the Bugun Language*
Minor in Chinese (Mandarin)

Gilman School, Baltimore MD - High School Diploma Sep. 2005 - June 2009
  Cum Laude, AP Scholar with Distinction

Relevant Experience

Manager - Machine Learning Engineering, Doma : Sep. '22 - Present

Sr. Machine Learning Engineer, Doma Oct. 2021 - Sep. '22

Data Science (NLP) Manager, Capital One Feb. 2021 - Sep. 2021

Principal Data Scientist (NLP), Capital One Sep. 2019 - Feb. 2021

Graduate Student Researcher, Zevin Laboratory for
  Psycholinguistics and Cognitive Neuroscience, USC 2015 - 2019

Graduate Student Researcher, Signal Analysis
  and Interpretation Laboratory (SAIL), USC 2014 - 2017

Computational Linguistics Consultant, Oben - Pasadena, CA Sep. 2015 - Jan. 2016

Research Assistant, Prof. Khalil Iskarous, USC Summer 2014

Researcher, Laboratory for Endangered Languages Research and
  Documentation, Swarthmore College Summer 2012 - Spring 2013

Teaching Assistant, *Human Language and Technology*, USC AY '17-'18

Teaching Assistant, *Phonetics and Phonology*, Haverford College Spring 2012

Updated 12/08/2022

After-School Chinese Language Instructor, Swarthmore-Rutledge School   Fall 2011

Honors and Awards

Pre-doctoral Fellow, Hearing and Communication Neuroscience Program, USC
Mentoring Committee: Bob Shannon, Shri Narayanan, Louis Goldstein, Jason Zevin
July 2015 - July 2017

NSF Graduate Research Fellowship Program Honorable Mention   March 2016

Provost's Ph.D. Fellowship (USC's Highest), USC   Aug. 2014 - Aug. 2019

Phi Beta Kappa Honor Society, Haverford College   Spring 2013

Departmental High Honors for Independent Research and Senior Thesis
Haverford College   Spring 2013

NCAA Centennial Athletic Conference Academic Honor Roll, Haverford College
Winter 2010, 2011, 2012, Spring 2011, 2012

Conference Grant, 174th Meeting of the Acoustical Society of America   Dec. 2017

Illinois Distinguished Fellowship (UIUC's Highest, Declined), UIUC   Winter 2014

John Dickinson Merit Scholarship (Declined), Dickinson College   Winter 2009

John Marshall Merit Scholarship (Declined), F&M College   Winter 2009

Proceedings

Chen, D., Courtland, M., Faulkner, A., & Ezen-Can, A. (2021). Error-Sensitive Evaluation for Ordinal Target Variables. *Proceedings of the 2nd Workshop on Evaluation and Comparison of NLP Systems, 189-199.*   Paper

Courtland, M., Faulkner, A., & McElvain, G. (2020). Efficient Automatic Punctuation Restoration Using Bidirectional Transformers with Robust Inference. *Proceedings of the 17th International Conference on Spoken Language Translation, 272-279.*   Paper   Slides   Recorded Talk

Courtland, M., Davani, A., Reyes, M., Yeh, L., Leung, J., Kennedy, B., Dehghani, M., & Zevin, J.D. (2019). Modeling performance differences on cognitive tests using LSTMs and skip-thought vectors trained on reported media consumption. *In Proceedings of the Third Workshop on Natural Language Processing and Computational Social Science, 47-53.*   Paper   Poster

Courtland, M., Davani, A., Reyes, M., Yeh, L., Leung, J., Kennedy, B., Dehghani, M., & Zevin, J.D. (2019). Subtle differences in language experience moderate performance on language-based cognitive tests. *In A.K. Goel, C.M. Seifert, & C. Freksa (Eds.), Proceedings of the 41st Annual Conference of the Cognitive Science Society (pp. 1559-1565). Montreal, QB: Cognitive Science Society.*   Paper

Lander-Portnoy, M. (2016) Release from Energetic Masking Caused by Repeated Patterns of Glimpsing Windows. *Proc. Interspeech 2016, 1672-1676.* Paper   Slides

Patents

Courtland, Maury, Faulkner, Adam, & Mcelvain, Gayle. EFFICIENT AUTOMATIC PUNCTUATION WITH ROBUST INFERENCE. United States Patent Application 20210319176, 10/14/2021.   Patent

Peer-Reviewed Abstracts

Lander-Portnoy, M. & Zevin, J.D. (2017). Auditory object formation from background noise improves speech perception. *174th Meeting of the Acoustical Society of America. New Orleans, USA.*   Abstract   Slides

Lander-Portnoy, M., Goldstein, L., & Narayanan, S.S. (2017). Using real time magnetic resonance imaging to measure changes in articulatory behavior due to partial glossectomy. *174th Meeting of the Acoustical Society of America. New Orleans, USA.* Abstract   Poster

Lander-Portnoy, M. & Goldstein, L. (2017). The Use of Real Time MRI in the Assessment of Articulatory Outcomes of Partial Glossectomy. *2017 American Speech-Language-Hearing Association Convention. Los Angeles, USA.*   Abstract   Poster Handout

Lander-Portnoy, M. & Zevin, J.D. (2016). Patterns of glimpsing windows affect release from energetic masking. *2nd Workshop on Psycholinguistic Approaches to Speech Recognition in Adverse Conditions (PASRAC2). Nijmegen, The Netherlands.*   Slides

Preprints

Courtland, M., Goldstein, L. L., & Zevin, J. D. (2019, December 12). Speech perception with temporally patterned noise maskers. https://doi.org/10.31234/osf.io/f7gk6

Presentations

Lander-Portnoy, M. & Zevin, J.D. (2017). Affordance of Auditory Object Formation Improves Speech Perception in Noise. *California Meeting on Psycholinguistics. Los Angeles, USA.*   Abstract   Slides

Lander-Portnoy, M. & Zevin, J.D. (2016). Regular glimpsing windows provide release from energetic masking. *SoCal Hearing, Irvine, USA.*   Poster

Online Resources

Bugun Talking Dictionary
Kera Mundari Talking Dictionary
Kharia Talking Dictionary
Matukar Talking Dictionary (Expanded Existing Resource)

Invited Talks

The BERT family tree.   Slides   Source
  Triangle Computer Vision and Natural Language Processing Group   3/10/20
Richer contexts: Better NLP with pre-training and multiple layers of abstraction.

Triangle CV and NLP Group 11/12/19

Downtown Durham ML Lunch & Learn 12/13/19

Word Embeddings.   Slides   Source

Triangle Computer Vision and Natural Language Processing Group 9/10/19

NLP 101.   Slides   Source

Triangle Computer Vision and Machine Learning Group 6/11/19

Senior Thesis Presentation.

Bicollege (Haverford and Bryn Mawr) Linguistics Majors' Tea Spring 2013

Choosing the Linguistics Major.

Bicollege (Haverford and Bryn Mawr) Linguistics Majors' Tea Fall 2012

Choosing the Linguistics Major.

Bicollege (Haverford and Bryn Mawr) Linguistics Majors' Tea Spring 2012

Skills

Proficient in MATLAB, Python, and Linux; Intermediate in R, LaTeX, HTML/CSS, JavaScript, and Praat

Conversational fluency in Spanish; Advanced in Hebrew; Intermediate in Mandarin; Basic in Arabic

Academic Service Positions

President of Graduate Students in Linguistics 2016-2018

Director of Technology for Graduate Students in Linguistics 2016-2017

Event Coordinator for Graduate Students in Linguistics 2015-2016

Inaugural Organizer of the Phonetics Reading Group Fall 2015

Media Appearances

Heenetiineyoo3eihiiho': Language Healers 2014

Miscellaneous Leadership Positions

Music Director/President, The Haverford College Humtones (a cappella) 2012 - 2013

Resident Adviser & Honor Code Orienteer, Haverford Customs Program AY '10, '12

Graduate, Rufus M. Jones Institute for Leadership, Haverford College Spring 2013

Inaugural Senior Retreat Leader, Gilman School 2008 - 2009

Volunteer Elementary School Tutor, Inner City Baltimore Spring 2009

Teaching Assistant, Temple Oheb Shalom Religious School, Baltimore 2007 - 2009

Volunteer Assistant Shot Put Coach, Haverford College Winter - Spring 2013

Senior Staff Member, Overnight Counselor, and Tutor

| Camp Skylemar, Naples ME | Summers 2009 - 2011, 2013 |

Professional Memberships

Association for Computational Linguistics (ACL)	2019 - present
Linguistics Society of America	2014-2015
International Speech Communication Association (ISCA)	2016-2017