

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

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)

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

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

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.

Slides **Source**

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.

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

Choosing the Linguistics Major.

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

Choosing the Linguistics Major.

Skills

Proficient in MATLAB, Python, and Linux; Intermediate in R, L^AT_EX, 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

Professional Memberships

Association for Computational Linguistics (ACL) 2019 - present

Linguistics Society of America 2014-2015

International Speech Communication Association (ISCA) 2016-2017