

# 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

Machine Learning Engineering Manager, Kensho Apr. 2023 - Present

Manager - Machine Learning Engineering, Doma Sep. 2022 - Apr. 2023

Sr. Machine Learning Engineer, Doma Oct. 2021 - Sep. 2022

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 2017-2018

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

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

## Honors and Awards

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Updated 09/13/2023

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.

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

Choosing the Linguistics Major.

<i>Bicollege (Haverford and Bryn Mawr) Linguistics Majors' Tea</i>	Fall 2012
Choosing the Linguistics Major.	
<i>Bicollege (Haverford and Bryn Mawr) Linguistics Majors' Tea</i>	Spring 2012

## **Skills**

Proficient in MATLAB, Python, and Linux; Intermediate in R, L<sup>A</sup>T<sub>E</sub>X, 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**

<i>Heenetiineyoo3eiihiho': Language Healers</i>	2014
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## **Professional Memberships**

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