

# JOSH MEYER

1103 E. University Blvd ◊ Tucson, Arizona 85721  
(520) · 621 · 6897 ◊ [joshua.richard.meyer@gmail.com](mailto:joshua.richard.meyer@gmail.com)  
[jrmeyer.github.io](https://jrmeyer.github.io)



*I'm a PhD candidate passionate about machine learning and  
open-source technologies for low-resource languages.*

## EDUCATION

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<b>University of Arizona</b> Ph.D. in Linguistics (focus: <i>computational linguistics</i> )	Expected 2019 <i>Tucson, AZ</i>
<b>University of Arizona</b> M.A. in Linguistics	May 2015 <i>Tucson, AZ</i>
<b>Seton Hall University</b> B.A. in Liberal Studies	May 2012 <i>South Orange, NJ</i>

## WORK EXPERIENCE

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<b>Mozilla Machine Learning</b> DeepSpeech Internship	October 2018 — Present
<b>Various Companies</b> Kaldi & ASR Consultant	2016 — 2018

## OPEN SOURCE WORK

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<b>Mozilla DeepSpeech</b>	<i>Added Transfer Learning branch</i>	[Code]
<b>NVDA</b>	<i>Added Kyrgyz language to screen reader</i>	[Code]
<b>eSpeak NG</b>	<i>Added Kyrgyz language to speech synthesizer</i>	[Code]
<b>Autotrace</b>	<i>Created tools for tongue contour visualization</i>	[Code]

## TUTORIALS

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[TensorFlow]   [Kaldi]   [CMU-Sphinx]   [Merlin]   [eSpeak NG]   [Praat]

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**GRANTS & AWARDS**

<b>NSF INTERN Grant</b> <i>Approx. \$50,000</i>	2018 <i>National Science Foundation</i>
<b>Chateaubriand STEM Fellowship</b> €5,000	2016 <i>French Embassy to the United States of America</i>
<b>GROW Travel Award</b> \$5,000	2016 <i>National Science Foundation</i>
<b>Graduate Research Fellowship</b> <i>Approx. \$102,000 + \$36,000 (tuition)</i>	2015-2018 <i>National Science Foundation</i>
<b>Visiting Research Fellowship</b> \$5,000	August 2013 — March 2014 <i>Central Asian Studies Institute, American University of Central Asia</i>
<b>Regents Scholarship</b> \$111,140 ( <i>tuition</i> )	August 2008 — May 2012 <i>Seton Hall University</i>

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**LAB EXPERIENCE**

<b>CNRS-LIMSI</b> <i>Visiting Researcher</i> DNN acoustic model adaptation and RNN text augmentation techniques	July 2016 — July 2017 <i>Orsay, France</i>
<b>American University of Central Asia</b> <i>Visiting Research Scholar</i> Created a spoken corpus of the Kyrgyz language	June 2015 — August 2015 <i>Bishkek, Kyrgyzstan</i>
<b>Arizona Phonological Imaging Lab</b> <i>Research Assistant</i> Developed software to process ultrasonic images	Spring 2015 <i>Tucson, AZ</i>
<b>American University of Central Asia</b> <i>Visiting Research Fellow</i> Conducted acoustic-phonetic and phonological research	August 2013 — March 2014 <i>Bishkek, Kyrgyzstan</i>
<b>Language Acquisition Research Center at Hunter CUNY</b> <i>Research Assistant</i> Transcribed spontaneous speech; Aided in website construction	November 2011 — August 2012 <i>New York, NY</i>
<b>KIT/NYU MEG Lab at NYU</b> <i>Research Assistant</i> Aided in data analysis and processing	May 2012 — August 2012 <i>New York, NY</i>

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## PUBLICATIONS

(Forthcoming) Meyer, Joshua, and Kloehn, Nick, and Carnie, Andrew. **The Field is not the Lab, and the Lab is not the Field.** *Perspectives on Language and Linguistics: Community-Based Research*. Edited by Shannon Bischoff and Carmen Jany. *Mouton De Gruyter*

(2018) Meyer, Joshua. **Unsupervised Task Discovery for Multi-Task Acoustic Modeling.** Proceedings of the Machine Learning in Speech and Language Processing Workshop. [Poster] [Paper]

(2018) Bekmurzaev, Nurbek, and Lottholz, Philipp, and Meyer, Joshua. **Navigating the safety implications of doing research and being researched in Kyrgyzstan: cooperation, networks and framing.** *Central Asian Survey*, 37:1, 100-118, DOI: 10.1080/02634937.2017.1419165

(2017) Meyer, Joshua. **Development of a Kyrgyz Speech Synthesizer: A Demonstration of the Ossian Frontend and Merlin Neural Network Speech Synthesis Toolkit.** *Proceedings of The 5th International Conference on Computer Processing of Turkic Languages, Vol. 1*, 130-136.

(2016) Lottholz, Philipp, and Meyer, Joshua. **Friend or Foreign Agent? On the Limits of Field Research in Post-Soviet Kyrgyzstan.** *Exeter Central Asian Studies Network*.

(2016) Meyer, Joshua. **Conducting Linguistic Fieldwork in Kyrgyzstan.** *Arizona Anthropologist*, Vol. 27.

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## PRESENTATIONS

**Language Technologies in Central Asia: A Survey.** Joint ESCAS-CESS Conference at the American University of Central Asia. 2017, Bishkek

w/ Quam, Carolyn, and Bever, Thomas **Phonological processing in Kyrgyz-Russian bilinguals.** The Miniconference on Metrical Structure: Acquisition and processing. 2014, Utrecht

**The Kyrgyzstan corpus project: Building a language resource unique to Kyrgyzstan and available to all.** CASI Public Seminar at the American University of Central Asia. 2014, Bishkek

**Now you hear it, now you dont: Phonological processing in Kyrgyz-Russian bilinguals.** CASI Public Seminar at the American University of Central Asia. 2013, Bishkek

**Psycholinguistics: Thinking about language differently.** Lecture conducted at The Plattform at Werkstatttraum. 2013, Berlin

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## TECHNICAL STRENGTHS

<b>Computer Languages</b>	Python, Bash, MATLAB, Perl, R
<b>Other</b>	Kaldi, TensorFlow, Linux, Amazon Web Services, git & GitHub