JOSHUA MEYER

1103 E. University Bvld ⋄ Tucson, Arizona 85721

(520) · 621 · 6897 ⋄ joshua.richard.meyer@gmail.com

jrmeyer.github.io

![github]

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

EDUCATION

University of Arizona	Expected 2018
Ph.D. in Linguistics (focus: *computational linguistics*)	*Tucson, AZ*
University of Arizona	May 2015
M.A. in Linguistics	*Tucson, AZ*
Seton Hall University	May 2012
B.A. in Liberal Studies	*South Orange, NJ*

WORK EXPERIENCE

Mozilla Machine Learning	October 2018 - April 2019
DeepSpeech Internship	
Various Companies	2016 - 2018
Kaldi & ASR Consultant	

OPEN SOURCE WORK

eSpeak NG: *Added Kyrgyz language support to existing open source speech synthesizer.*
https://github.com/rhdunn/espeak/

NVDA: *Added Kyrgyz language support to screen reading program for people with vision impairments.*
https://github.com/JRMeyer/nvda

Autotrace: *Added tongue contour vizualization tools and ported scripts to PyQt4.*
https://github.com/JRMeyer/Autotrace

Tutorials on Open Source Softwares: TensorFlow, Kaldi, CMU-Sphinx, Merlin, eSpeak NG, Praat.
http://jrmeyer.github.io

GRANTS & AWARDS

Chateaubriand STEM Fellowship 2016
€5.000 *French Embassy to the United States of America*

GROW Travel Award 2016
$5,000 *National Science Foundation*

Graduate Research Fellowship 2015-2018
Approx. $102,000 + $36,000 (tuition) *National Science Foundation*

Visiting Research Fellowship August 2013 - March 2014
$5,000 *Central Asian Studies Institute, American University of Central Asia*

Regents Scholarship August 2008 - May 2012
$111,140 (tuition) *Seton Hall University*

RESEARCH

CNRS-LIMSI July 2016 - July 2017
Visiting Researcher *Orsay, France*

  DNN acoustic model adaptation and RNN text augmentation techniques

American University of Central Asia June 2015 - August 2015
Visiting Research Scholar *Bishkek, Kyrgyzstan*

  Created a spoken corpus of the Kyrgyz language

Arizona Phonological Imaging Lab Spring 2015
Research Assistant *Tucson, AZ*

  Developed software to process ultrasonic images

American University of Central Asia August 2013 - March 2014
Visiting Research Fellow *Bishkek, Kyrgyzstan*

  Conducted acoustic-phonetic and phonological research

Language Acquisition Research Center at Hunter CUNY November 2011 - August 2012
Research Assistant *New York, NY*

  Transcribed spontaneous speech; Aided in website construction

KIT/NYU MEG Lab at NYU May 2012 - August 2012
Research Assistant *New York, NY*

  Aided in data analysis and processing

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) 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.*

PRESENTATIONS

Unsupervised Task Discovery for Multi-Task Acoustic Modeling. Machine Learning in Speech and Language Processing Workshop. [Poster] [Paper] 												*2018, Hyderabad*

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 Platttform at Werkstatttraum. 											*2013, Berlin*

TECHNICAL STRENGTHS

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