

REED BLAYLOCK

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PERSONAL WEBSITE: <http://reedblaylock.com>

GITHUB: <https://github.com/reedblaylock/rtMRI-vocal-tract-analysis>

ACADEMIC HISTORY

University of Southern California (USC)

August 2013-present

- M. A. in Linguistics from the Dornsife College of Letters, Arts, and Sciences (May 2015)
- PhD student Linguistics in the Dornsife College of Letters, Arts, and Sciences
- Expected graduation date: May 2018

University of Michigan (U of M)

September 2007-April 2011

- B. A. in Linguistics from the College of Literature, Science, and Arts; Residential College; Honors Program

RESEARCH EXPERIENCE

Research Assistant

May 2016-present

- Worked under the supervision of Prof. Shrikanth Narayanan
- Categorized productions of beatboxing from real-time magnetic resonance videos
- Evaluated the typological relationship between vocal percussion and speech production

May 2015-August 2015

- Worked under the supervision of Prof. Jason Zevin
- Used neural network models to make computers dyslexic
- Used Python, C, SQL

Programmer

January 2014-present

- Work under the supervision of Prof. Louis Goldstein
- Create scripts in MATLAB to facilitate real-time MRI video speech analysis

PUBLICATIONS

Talks and Proceedings

- Blaylock, Reed. 2015. "Unifying Morphologically-Derived Environment Effects and Blocking". Proceedings of NELS 45.

Posters

- Blaylock, Reed. 2016. "Driving derived environment effects with alignment constraints." Annual Meeting in Phonology.
- Blaylock, Reed, et al. 2016. "Velum control in oral sounds." Interspeech.
- Blaylock, Reed, et al. 2014. "Gestural coordination of the velum in singing can be different from coordination in speech." The Journal of the Acoustical Society of America 135.4: 2199-2199.

PROGRAMMING EXPERIENCE

Linguistic Tools

- Worked with computer scientists and electrical engineers
- Created a MATLAB tool for region-of-interest analysis of real-time magnetic resonance videos
- Successfully adopted and expanded on code written by others
- Implemented a dynamic programming algorithm for finding the vocal tract midline using pixel intensity information and minimal user input
- <https://github.com/reedblaylock/rtMRI-vocal-tract-analysis>

Web Development

May 2011-present

- Amateur web developer, focusing on back end production, database management, and security
- PHP5, HTML, CSS, Javascript, JQuery, SQL

Other Programming Experience

August 2012-May 2013

- Courses in C++ and Java

TEACHING EXPERIENCE

Provost's Mentored Teaching Fellow

USC, August 2016-May 2017

- Will create a new course about the science of singing (phonetics and cognition)
- Will get practice making lesson plans and rubrics, grading, and managing a classroom independently

Teaching Assistant

USC, August 2014-present

LING 115: Language, Society, and Culture

Fall 2014

- GE, 2 sections of approximately 20 students
- Responsibilities included: creating weekly lesson plans, grading exams, running discussion sections, holding office hours, running extra help sessions

LING 285: Human Language and Technology

Spring 2015/Fall 2015

- GE, 3 sections of approximately 20 students
- Responsibilities included: designing lab activities, running lab sections, holding office hours, running extra help sessions, grading exams, modifying lecture lesson plan with the professor

PSYC 360: Abnormal Psychology

Spring 2016

- Higher-level Psychology class, 1 lecture of approximately 100 students
- Responsibilities include: holding office hours, running extra help sessions, grading exams

Teaching Assistant Mentor

USC, August 2015-December 2015

- Helped a new teaching assistant acclimate to the teaching environment
- Offered physical and emotional support, especially during exam times

Teaching Practicum

USC, Linguistics Department, August 2014-December 2014

- Learned important teaching techniques such as lesson plan creation, how to deal with plagiarism, how to grade papers and exams, and how to be a competent teacher in general.

Tutor

U of M, January 2011-August 2012

USC, January 2014-May 2016

- Tutored for various linguistics courses, and Intermediate Latin
- Explained complicated material in new ways, drawing examples from personal experience and other academic disciplines
- Worked with student-athletes and Linguistics majors, one-on-one and in groups

Curriculum Developer

Accent Reduction Institute, Ann Arbor, MI, January 2011-September 2011

- Created study aids and assessment materials for accent reduction training
- Created study materials targeted to a learner's individual needs

MUSIC EXPERIENCE

USC Ballroom Dance Team

September 2013-present

- President (May 2015-present)
- Assistant Teacher (January 2014-present)
- Tripled the size of the team
- Managed a team of ten board members, all working on different projects for team growth and development

A Cappella

USC, May 2015-December 2015

- Musical Director
- Taught basic singing technique to a group of amateur singers
- Made lesson plans for each rehearsal (e.g. warmup, learning activity, songs to practice, games)

Voice Lessons

U of M, September 2009-May 2012

- Learned modern vocal pedagogy practices
- Developed a stronger singing voice

University of Michigan Men's Glee Club

September 2007-May 2011

- Poetry reader and soloist (September 2010-May 2011)
- Voice part: Tenor II

Afro-Cuban Drumming

U of M, Spring semester 2011

- Studied and performed Afro-Cuban song styles and complex rhythms.
- Sang in performance, and learned to play the congo, clave, cowbell, bongos, etc.

OTHER EXPERIENCE

Conference assistant

USC, CUNY conference, Spring semester 2015

- Assisted with preparations for CUNY 2015 at USC
- Worked with a team to create electronic and print versions of the conference program

Conference assistant

USC, AMP conference, Spring 2016-Fall 2016

- Assisted with preparations for the Annual Meeting in Phonology 2016 at USC
- Worked with another graduate student to manage the conference website
- Aided coordination of poster board retrieval for poster sessions

Graduate Students in Linguistics

USC, Fall 2014-Spring 2016

- Webmaster