

# REED BLAYLOCK

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## Education

### University of Southern California (USC)

August 2013-present

- PhD student Linguistics in the Dornsife College of Letters, Arts, and Sciences (expected graduation: May 2019)
- Advisor: Louis Goldstein

May 2015

- M. A. in Linguistics from the Dornsife College of Letters, Arts, and Sciences
- Advisor: Louis Goldstein

### Music, Language, and Cognition Summer School

Como, Italy, June 26-30, 2017

- Presented synopsis of current work in beatboxing
- Learned about cutting-edge research being conducted about music and language

### 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
- Advisor: Pam Beddor

## Awards

### Excellence in Teaching award

USC Linguistics and the Center for Excellence in Teaching, November 2017

# Research experience

## Research assistant

May 2016-August 2016, May 2017-August 2017

- Supervisor: Prof. Shrikanth Narayanan
- Studied the production of beatboxing and speech errors
- Designed a programmatic MATLAB [GUI for vocal tract region-of-interest analysis](#)

May 2015-August 2015

- Supervisor: Prof. Jason Zevin
- Used neural network models to make computers dyslexic

## Publications

### Conference proceedings

1. Reed Blaylock, Nimisha Patil, Timothy Greer, and Shrikanth Narayanan. "Sounds of the human vocal tract." Interspeech, 2017.
2. Nimisha Patil, Timothy Greer, Reed Blaylock, and Shrikanth Narayanan. "Comparison of Basic Beatboxing Articulations Between Expert and Novice Artists using Real-Time Magnetic Resonance Imaging." Interspeech, 2017.
3. Reed Blaylock, Louis Goldstein, Shrikanth Narayanan. "Velum control in oral sounds." Interspeech, 2016.
4. Reed Blaylock. "Driving Derived Environment Effects with Alignment Constraints." Annual Meeting in Phonology (AMP), 2016.
5. Reed Blaylock. "Unifying Morphologically-Derived Environment Effects and Blocking". Proceedings of NELS 45, 2015.

### Published abstracts

1. Reed Blaylock, et al. "Gestural coordination of the velum in singing can be different from coordination in speech." The Journal of the Acoustical Society of America 135.4 (2014): 2199-2199.
2. Reed Blaylock, Shrikanth Narayanan. "Novel imaging tools for supporting the teaching of singing and spoken performance." The Journal of the Acoustical Society of America 142 (2017): 2585.

# **Presentations without publication**

## **Invited presentations**

1. Reed Blaylock, Nimisha Patil, Timothy Greer, and Shrikanth Narayanan. "Breaking Down the Beat: The Art and Science of Beatboxing." Sonic r/evolutions, USC. September 29, 2017. Available at <http://sail.usc.edu/span/beatboxingproject/>

## **Posters and talks**

1. Reed Blaylock. "Beatboxing and language." Music, Language, and Cognition Summer School. Como, Italy. 2017.
2. Caitlin Smith and Reed Blaylock. "Deriving Exceptional Phonological Patterns from Contrastive Gestural Strength." Chicago Linguistics Society 53, Dynamics workshop.

# **Teaching experience**

## **Writing Center consultant**

USC, August 2017-present

- Offered non-directive guidance to undergraduate and graduate writers from a variety of disciplines and language backgrounds

## **Future Faculty Teaching Institute**

USC, August 2017-present

- Participated in an optional, year-long course meant for improving pedagogical choices in the classroom
- Applied Universal Design for Learning, Bloom's taxonomy, and other modern teaching practices to new course design

## **Provost's Mentored Teaching Fellow**

USC, August 2016-May 2017

- Created a brand new course about the production and cognition of singing
- Practiced self-sufficient teaching, including making lesson plans and rubrics, grading, and managing a classroom independently

## **Teaching assistant**

USC, August 2014-May 2016

### **LING 115: Language, Society, and Culture**

Fall 2014

- General education course, 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 and Fall 2015

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

### **PSYC 360: Abnormal Psychology**

Spring 2016

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

## **Teaching assistant mentor**

USC, Linguistics Department, Fall semester 2015

- Helped a new teaching assistant acclimate to the teaching environment
- Bolstered camaraderie with encouraging words and advice

## **Teaching practicum**

USC, Linguistics Department, Fall semester 2014

- Learned important teaching techniques such as lesson plan creation, how to deal with plagiarism, and how to grade papers and exams.

## **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

# Programming experience

## Web development

- Proficient in JavaScript (especially ECMAScript 2015 and 2016), HTML5, CSS3, PHP > 5.2, and SQL
- Built and manage some informational websites

## Data analysis

- Proficient in MATLAB, with some experience in R (and Microsoft Excel)
- Developed re-usable programs for complex data analysis

## Image processing

- Proficient in MATLAB
- Built (programmatic) GUI for region-of-interest analysis of real-time MRI videos

# Music experience

## Voice lessons

U of M, September 2009-May 2012

USC, May 2016-September 2016

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

## University of Michigan Men's Glee Club

U of M, 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.

# Service

## 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 AMP 2016 at USC
- Co-webmaster
- Aided coordination of poster board retrieval for poster sessions

New Orleans, Meeting of the Acoustical Society of America, 2017

- Taught high school students about the speech articulators and source/filter theory
- Encouraged students to pursue their interests in science

## USC Ballroom Dance Team

September 2013-present

- President (May 2015-May 2017)
- Assistant Teacher (January 2014-present)

## USC Ballroom Dance Team a cappella group

May 2015-December 2015, June 2017-August 2017

- Musical Director of amateur singing group
- Made lesson plans for each rehearsal (e.g. warm-up, learning activity, songs to practice, games)

## Graduate Students in Linguistics (student organization)

USC, Fall 2014-Spring 2016

- Webmaster

USC, Fall 2014-Spring 2015

- Event organizer