

## Adam R. Fishbein

4123 Biology-Psychology Building • College Park, MD 20742 • email: [afishbein87@gmail.com](mailto:afishbein87@gmail.com)

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### EDUCATION

- University of Maryland:** College Park, MD  
**Degree:** PhD student in Neuroscience and Cognitive Science Aug 2015 - Present  
Advisor: Robert Dooling (Psychology)  
Committee Members: Greg Ball (Psychology),  
Juan Uriagereka (Linguistics), Bill Idsardi (Linguistics), Catherine Carr (Biology)
- University of Southern California:** Los Angeles, CA  
**Degree:** Master of Professional Writing, concentration in fiction Aug 2012  
Thesis: Short story collection "Leftover People and Other Stories"
- University of Maryland:** College Park, MD  
**Degree:** B.A. Philosophy; B.A. Linguistics May 2009  
Graduated Cum Laude

### RESEARCH AND TRAINING

- Graduate Research Assistant** July 2015 – Present  
Avian Behavioral Neuroscience lab, UMD
- Summer School Course in Acoustic Communication** Aug 2017  
Terrestrial and Marine Field Stations of the Institute of Biology, University of Southern Denmark
- Field Course in Animal Communication** July 2016 – Aug 2016  
Project title: Duetting in Chestnut-Backed Antbirds  
Barro Colorado Island, Panama
- Baggett Summer Research** Summer 2008  
Studied Vocal Mimicry in Satin Bowerbirds, UMD

### PUBLICATIONS

- Fishbein, A. R.**, Lawson, S. L., Dooling, R.J., Ball, G.F. How Canaries Listen to Their Song: Species-Specific Shape of Auditory Perception. *Journal of the Acoustical Society of America*. 2019.
- Fishbein, A. R.**, Löschner, J., Mallon, J. M, Wilkinson, G. S. Dynamic Sex-Specific Responses to Synthetic Songs in a Duetting Suboscine Passerine. *PLOS ONE*. 2018.
- Lawson, S.L., **Fishbein, A. R.**, Prior, N.H., Dooling, R.J., Ball, G.F. Relative Salience of Syllable Structure and Syllable Order in Zebra Finch Song. *Animal Cognition*. 2018.

### PRESENTATIONS

- Fishbein, A. R.**, Prior, N. H., Idsardi, W. J., Ball, G. F., Dooling, R. J. (2019). Perception of Variation in Song Motifs by Birds and Humans. Poster presented at 26<sup>th</sup> International Conference on Comparative Cognition, Melbourne Beach, FL.
- Fishbein, A. R.** Messages in some of the details: How birds listen to auditory sequences. (2019) *Advances in the Study of Bird Perception and Cognition*. University of Tokyo, Komaba, Japan.
- Fishbein, A.R.** Invited talk at the Neuroscience and Cognitive Science program recruitment event. (Feb. 2019).

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**Fishbein, A. R.**, Lu, K., Idsardi, W. J., Shamma, S. A., Fritz, J. B., Dooling, R. J. (2019).

Neurophysiological Coding of Temporal Fine Structure and Sequence in the Auditory Forebrain of the Zebra Finch. Poster presented at 42<sup>nd</sup> Annual Meeting of the Association for Research in Otolaryngology, Baltimore, MD.

**Fishbein, A. R.**, Prior, N. H., Ball, G. F., Dooling, R.J. (2018). Perception of Sequences and Syllables in Vocal Learning Birds. Presentation at Birdsong and Animal Communication Annual Meeting, Millbrook, NY.

**Fishbein, A. R.**, Prior, N. H., Lawson, S. L., Ball, G. F., Dooling, R. J. (2018). Variation in How Birds Listen to Their Songs. Presentation at 55<sup>th</sup> Annual Conference of the Animal Behavior Society, Milwaukee, WI.

**Fishbein, A. R.**, Ball, G. F., Dooling, R. J. (2018). Use of Transition and Abstract Rules by Budgerigars in Auditory Pattern Processing. Presentation at 175<sup>th</sup> Meeting of the Acoustical Society of America, Minneapolis, MN.

**Fishbein, A. R.**, Ball, G. F., Dooling, R. J. (2017). Use of Transition and Abstract Rules by Budgerigars in Auditory Pattern Processing. Poster presented at Birdsong 7, College Park, MD.

**Fishbein, A. R.** and Dooling, R. J. (2017). An Efficient Behavioral Assay for Measuring Auditory Pattern Processing in Budgerigars. Poster presented BBI Research Workshop: New Perspectives on Animal Models of Language and Cognition, College Park, MD.

**Fishbein, A. R.**, Löschner, J., Mallon, J. M, Wilkinson, G. S. (2017). Sex-Specific Responses to Synthetic Songs in a Duetting Suboscine Passerine. Presentation at 4<sup>th</sup> International Symposium on Acoustic Communication by Animals, Omaha, NE.

**Fishbein, A. R.** and Dooling, R. J. (2017). An Efficient Behavioral Assay for Measuring Auditory Pattern Processing in Budgerigars. Poster presented at 4<sup>th</sup> International Symposium on Acoustic Communication by Animals, Omaha, NE.

Lawson, S.L., **Fishbein, A. R.**, Prior, N.H., Dooling, R.J., Ball, G.F. (2017) Perception of Structural Changes in Song Motifs by Zebra Finches. Poster presented at 4<sup>th</sup> International Symposium on Acoustic Communication by Animals, Omaha, NE.

**Fishbein, A. R.**, Lawson, S. L., Dooling, R.J., Ball, G.F. (2017). How Canaries Listen to Their Song. Presentation at 173<sup>rd</sup> Meeting of the Acoustical Society of America, Boston, MA.

Lawson, S.L., **Fishbein, A. R.**, Prior, N.H., Lohr, B. , Dooling, R.J., Ball, G.F. (2017). Relative Salience of Syllable Order versus Syllable Fine Structure in Zebra Finch Song. Work presented at 173<sup>rd</sup> Meeting of the Acoustical Society of America, Boston, MA.

**Fishbein, A. R.**, Lawson, S. L., Ball, G.F., Dooling, R. J. (2016). Using Operant Conditioning Methods to Measure Song Perception in Birds. Poster presented at 6<sup>th</sup> Meeting of the North American Ornithological Conference, Washington, D.C.

### **AWARDS AND HONORS:**

**NIH Predoctoral Traineeship Fellowship**, CCEBH, UMD

2017

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<b>Graduate Student Travel Award</b> , BSOS, UMD	2017
<b>Research Training Award</b> , NACS Program, UMD	2017
<b>Travel Award</b> , NACS Program for First-Year Project, UMD	2016
<b>NSF Research Traineeship Fellowship</b> , Language Science Center, UMD	2016
<b>Assistant Lectureship</b> , USC	2010
<b>Baggett Summer Research Scholarship</b> , UMD	2008
<b>Honors Program Certificate</b> , UMD	2008

### TEACHING EXPERIENCE

<b>Co-Instructor</b> , LING272 The Biophysics of Language <b>University of Maryland</b> : College Park, MD	Fall 2018
<b>Graduate Fellow</b> , Pulsar Language Science Research Seminar <b>University of Maryland</b> : College Park, MD	Spring 2017 – Fall 2017
<b>Lecturer</b> , ENGL101 (Academic Writing) <b>University of Maryland</b> : College Park, MD	Fall 2014 – Spring 2015
<b>Lecturer</b> , LIT/WRTG100, LIT/WRTG101 (College Writing I and II) <b>American University</b> : Washington, DC	Fall 2013 – Spring 2015
<b>Graduate Lecturer</b> , WRIT140 (Writing and Critical Reasoning) <b>University of Southern California</b> : Los Angeles, CA	Fall 2010 – Spring 2012

### ADDITIONAL TRAINING

<b>Independent Study with Lab Research Engineer, Ed Smith</b> Matlab, Sound Recording, Signal Analysis	June 2016 – Dec 2016
<b>Introduction to Bayesian Statistical Modeling</b> , UMD	June 2016
<b>Training in Teaching</b> , UMD	Fall 2014
<b>Training in Teaching</b> , USC	Fall 2010

### PROFESSIONAL SERVICE

<b>Chair</b> , Language Science Professional Development Committee	2017 – 2018
<b>Co-Chair</b> , Language Science Lunch Talks Committee	2017
<b>Member</b> , Language Science Winter Storm Planning Committee	2017, 2018
<b>Member</b> , Language Science Professional Development Committee	2016 – Present
<b>Member</b> , Language Science Day Planning Committee	2016

### MENTORSHIP EXPERIENCE

<b>Mentor for Undergraduate Student</b> , Delphine Gardiner	Sept 2018 – Present
<b>Mentor for Undergraduate Student</b> , Mahler Revsine	May 2018 – Aug 2018
<b>Graduate Fellow for PULSAR Undergraduate Research Program</b>	Jan 2017 – Dec 2017
<b>Mentor for Undergraduate Student</b> , Eli Kane	Sept 2017 – Dec 2017
<b>Mentor for Undergraduate Student</b> , Janeila Benjamin	Mar 2017 – Aug 2017
<b>Tutor for Study Point</b> : Washington, DC	Aug 2014 – Jan 2015
<b>Volunteer Tutor at School on Wheels</b> : Los Angeles, CA	Mar 2012 – Sept 2012
<b>Volunteer Tutor at Los Angeles Mission</b> : Los Angeles, CA	Apr 2012 – Sept 2012

### OUTREACH EXPERIENCE

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<b>Lab Tour for Terp Discovery Students</b>	July 2017
<b>Maryland Day Table Volunteer, UMD</b>	Apr 2017
<b>Lunch with Montgomery Blair High School Linguistics Club</b>	Feb 2017

### LAY SCIENCE PUBLICATIONS

Seeds for Thought: Is there Structure in Birdsong? [Umdlanguagescience.org](http://Umdlanguagescience.org), Mar. 27, 2018.

Birds Can Tell Us a Lot About Human Language. [Scientificamerican.com](http://Scientificamerican.com), Feb 2., 2018.

How Canaries Listen to Their Song. Popular version of presentation at 173<sup>rd</sup> meeting of the Acoustical Society of America. [Acoustics.org](http://Acoustics.org). 2017.

### SKILLS

**MATLAB:** proficient

**SPSS:** intermediate

**Excel:** proficient

**Avisoft:** beginner

**Adobe Audition:** proficient

**R:** beginner

**Raven Pro:** proficient

### FICTION PUBLICATIONS AND OTHER ACTIVITIES

*DreamLand*, Amazon Direct Publishing (2015); "Uncle Camus," *Cactus Heart* (2015); "The Untapped," *The Offbeat* (2015); "Igloo," *Connu* (2013); "Moving In," *Necessary Fiction* (2012); "As A Child," *Stylus* (2009)

Co-Founder and Member, Improv Comedy Group "The Female Accent," Jan 2015 – Present

Member, Washington Improv Theater ensemble "Thank You for Sharing," Apr 2015 – Sept 2016