

# Lauren Fink

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## Curriculum Vitae

Dec. 2017

### EDUCATION

- 2019\* Ph.D. Candidate\*, Neuroscience, University of California, Davis (UCD), CA, USA  
2017 M.Sci., Neuroscience, UCD  
2015 M.Phil., Music Studies: Music & Science, University of Cambridge, UK  
2013 B.M., Percussion Performance, University of Cincinnati College Conservatory of Music, OH, USA, *summa cum laude*

### RESEARCH EXPERIENCE

- 2014 – Graduate Student Researcher. Janata Lab, Center for Mind & Brain, UCD  
Dissertation topic: Predicting sensorimotor synchronization and attention to music using a linear oscillator model, eye-tracking, and electroencephalography.
- 2017 (Aug.) Visiting Fellow. Max-Planck-Institute for Empirical Aesthetics, Frankfurt, Germany  
Project: Comparing Pupil Labs and SMI mobile eye-tracking glasses in the concert hall.
- 2016 (Aug.) Graduate Research Exchange Student. Swartz Center for Computational Neuroscience, University of California, San Diego  
Project: Simultaneous eye-tracking and electroencephalography during an auditory deviance detection task.
- 2016 (Jul.) Visiting Researcher. Center for Computer Research in Music and Acoustics, Stanford University  
National Academies Keck Futures Initiative: Fostering Empathy and Improving Focus Through the Groove Enhancement Machine: Facilitating Sensorimotor Coordination and Cooperation Among Groups of Individuals.
- 2015 Graduate Rotation Student. Geng Lab, Center for Mind & Brain, UCD  
Project: Characterization of eyeblinks and pupil diameter during an auditory deviance detection task.
- 2015 Graduate Rotation Student. Ranganath Lab, Center for Neuroscience, UCD  
Project: Goal relevance in temporal contexts: the role of the fronto-striatal-hippocampal circuit.
- 2013-14 Graduate Student Researcher. Centre for Music & Science, U. Cambridge  
Masters Thesis: Music modulates eyeblinks: An examination of temporal coordination.
- 2012 Undergraduate Research Fellow. College of Medicine, U. Cincinnati

Project: The emotional reactivity of mice over-expressing human wild-type  
 alphasynuclein: An ultrasonic vocalization pilot study.

2011 Undergraduate Research Fellow. Dept. of Philosophy, U. Cincinnati  
 Project: False Belief Attribution: An investigation of the Neural Pattern Account.

## TEACHING EXPERIENCE

University Writing Program, UCD

Graduate Writing Fellow (2015-present)

Popular Science and Technology Writing (Winter, 2017), Teaching Assistant

Dept. of Neurobiology, Physiology, & Behavior, UCD

Human Brain & Disease (Spring 2017), Teaching Assistant

Neurobiology (Fall 2016), Teaching Assistant

Neurobiology of Speech (Spring 2015), Reader

Humanities Program, UCD

Cultural History of the Blues (Spring 2016), Teaching Assistant

Dept. of Psychology, UCD

Psychology of Music (Fall, 2015; Fall 2017), Teaching Assistant

Research Methods (Winter, 2015), Teaching Assistant

Private Percussion Teacher, Youngstown & Cincinnati, OH (2008-2014)

Drum Line Instructor, Liberty High School, Youngstown, OH (2013)

## GRANTS / SCHOLARSHIPS / FELLOWSHIPS

2017 Graduate Student Association Travel Award (\$500)  
 2017 ARCS Foundation Achievement Research Award for College Scientists (\$11,000)  
 2017 UC Davis Diversity Inclusion and Innovation Grant. "SOMA: Seminar Outreach for  
 Minority Advocacy." (\$5,000)  
 2016-17 UC Davis & Humanities Graduate Research Award (\$3,000)  
 2016-17 Lead Graduate Writing Fellowship, UCD (\$3,600)  
 2016 University of California Music Experience Research Community Initiative: Research  
 Exchange Grant – UC San Diego (\$1,200)  
 2016 Ling-Lie Chau Student Award for Brain Research, UCD (\$1,000)  
 2016 University of California Music Experience Research Community Initiative: Research  
 Exchange Grant – UC San Diego (\$2,300)  
 2016 University Writing Program Travel Award, UCD (\$1,200)  
 2015 University of California Music Experience Research Community Initiative  
 Symposium Travel Award (\$1,200)  
 2015-16 Graduate Writing Fellowship, UCD (\$3,000)  
 2014-15 Neuroscience Graduate Group Fellowship, UCD (\$28,680)  
 2014 William Barclay Squire Fund/Wolfson College Travel Grant, U. Cambridge (£600)  
 2013-14 Cambridge Overseas Trust, Wolfson Cambridge Scholarship, U. Cambridge (£7000)  
 2012-13 U. of Cincinnati Marshall Scholarship Finalist  
 2012-13 Undergraduate Research Council Grant, U. Cincinnati (\$3,000)  
 2012 Summer Undergraduate Research Fellowship, U. Cincinnati (\$4,000)  
 2011 Summer Undergraduate Mentored Research Grant, U. Cincinnati (\$3,000)

- 2009-13 Cincinnatus Scholarship, U. Cincinnati (\$32,000)  
 2009-13 College-Conservatory of Music Scholarship, U. Cincinnati (\$4,000)  
 2009-13 Founces M. Luley Music Scholarship (\$8,000)

## PUBLICATIONS / CONFERENCE PRESENTATIONS

- Lange, E. & **Fink, L.** (2017, August). Symposium: Using eye-tracking and pupillometry to study rhythmic processing in music and dance. *European Conference on Eye Movements, Wuppertal, Germany.*
- Fink, L.,** Hurley, B., Geng, J., & Janata, P. (2017, August). Predicting attention to auditory rhythms using a linear oscillator model and pupillometry. *Talk presented at the Conference on Music & Eye-Tracking, Frankfurt, Germany.*
- Fink, L.,** Ed. (2017). *Explorations: The UC Davis Undergraduate Research Journal* (vol. 19). The Regents of the University of California.
- Fink, L.,** & Alexander, P., & Janata, P. (2017, July). Fostering Empathy and Improving Focus Through the Groove Enhancement Machine: Facilitating Sensorimotor Coordination and Cooperation Among Groups of Individuals. *Demonstration presented at the National Academies Keck Futures Initiative Art, Science, Engineering, and Medicine Mid-Cycle Grant Meeting, Boston, MA.*
- Hurley, B., **Fink, L.,** & Janata, P. (2017, March). A resonator model predicts temporal orienting in rhythmic music. *Proceedings of the Cognitive Neuroscience Society Annual Meeting.*
- Bright, A., Singleton, J., **Fink, L.,** & Rodger, K. (2017, March). Cultivating a Rhetorical Consciousness: Supporting Graduate Student Writers Across the Curriculum. *Symposium presented at the College Composition and Communication Convention, Portland, OR.*
- Fink, L.** (2016). The Greatest. *Pulse Special Issue of Ethnomusicology Review/ Sounding Board.*
- Fink, L.,** Hurley, B., Geng, J. & Janata, P. (2016, July). Pupillary and eyeblink responses to auditory stimuli index attention and sensorimotor coupling. *Proceedings of the 14<sup>th</sup> International Conference for Music Perception & Cognition*, pg. 788.
- Hurley, B., **Fink, L.,** & Janata, P. (2016, July). Predicting temporal attention in music with a damped oscillator model. *Proceedings of the 14<sup>th</sup> International Conference for Music Perception & Cognition*, pg. 782
- Fink, L.** & Rodger, K. (2016, June). Mapping Neuroscience through Professional Writing. *Talk presented at the International Writing Across the Curriculum Conference, Ann Arbor, MI.*
- Fink, L.** (2015, July). Eyeblinks as biomarkers of temporal coordination during music cognition. *Poster presented at the Rhythm Perception & Production Workshop, Amsterdam, Netherlands.*
- Fink, L.,** Niemeyer, T., Jones, S., Larabee, Z., & Schuette, P. (2014, November). Oscillator Etudes. *Performance premiere at the Percussive Arts Society International Convention, Indianapolis, IN.*
- Fink, L.** & Mazman, A. (2013, July). False belief attribution: An investigation of the neural pattern account. *Poster presented at the Society for Philosophy and Psychology Conference, Providence, RI.*
- Fink, L.,** Fulks, L. & Fleming, S. (2012, August). Emotional reactivity in mice overexpressing human wildtype alpha-synuclein: An ultrasonic vocalization (USV) pilot study. *Poster presented at the Summer Undergraduate Research Fellows Conference, Cincinnati, OH.*

## WORKSHOPS, PUBLIC TALKS, & SELECT PERFORMANCES

- Nov. 2017      Invited Lecturer. Musicology Department, UC Davis. “Music & science research methods for undergraduates.”
- Oct. 2017      Invited Speaker. Ladies Rock Sacramento. “Stage Presence.”
- July 2017      Invited Lecturer. Pre-College Program: Mind & Brain, UC Davis. “Introduction to Literature Reviews.”
- Apr. 2017      Invited Speaker. Neuroscience Initiative to Enhance Diversity, UC Davis. “Writing a Personal Statement.”
- Nov. 2016      Invited Speaker. Davis Entrepreneurs Meet-Up, Davis Roots, Davis, CA. “Predicting audiovisual attention over time.”
- Oct. 2016      Invited Panelist. Undergraduate Research Center, UC Davis. “How to Publish as an Undergraduate.”
- July 2016      Invited Lecturer. Stanford Summer Arts Institute, Stanford University. “Assessing Attention to Music using Eye-Tracking.”
- May 2016      Invited Lecturer. Musicology Department, UC Davis. “Music & Visual Motor Behavior.”
- Apr. 2016      Workshop Leader. Writing Across the Curriculum Program, UC Davis. “Forming & Maintaining Writing Groups.”
- Apr. 2016      Invited Panelist. UC Davis. “The first abstract: Teaching undergraduates to summarize their research.”
- Apr. 2016      Invited Speaker. Sunday Assembly, Sacramento, CA. “The Importance of Synchronization and the Power of Music.”
- Apr. 2016      Invited Panelist. UC Davis. “Mentoring Scientific Writing: How to give effect, time-efficient feedback.”
- Apr. 2015      Invited Speaker. Neuroscience Initiative to Enhance Diversity, UC Davis. “Preparing your graduate school application: Student’s perspective.”
- Dec. 2014      Speaker. UC Davis Center for Neuroscience. “Attention Mapping via Amplitude Modulated Sounds.”
- Feb. 2013      Drum set player. Corpus Playroom, Cambridge, UK. “Science! The Musical.” World Premiere.
- Oct. 2013      Guest Lecturer. Cambridge Festival of Ideas, Cambridge, UK. “It’s all in the mind.”
- Apr. 2013      Senior Recitalist. U. of Cincinnati College-Conservatory of Music. “Matriculaphony: A Percussive Circus on Van Meter Ames’ *A Book of Changes*”

## ACADEMIC SERVICE

- 2017-18      Guest Editor for Special Issue. *Journal of Eye Movement Research*
- 2016-      Ad-hoc Reviewer for: *Journal of Vision*; *Vision Research*; *Quarterly Journal of Experimental Psychology*; *Society for Music Perception and Cognition*
- 2016-      Editor-in-Chief. *Explorations: The UC Davis Undergraduate Research Journal*

2017 Selection Committee. UC Davis Neuroscience Initiative to Enhance Diversity  
 2017 Graduate Student Coordinator. UC Davis Neuroscience Initiative to Enhance Diversity  
 2016-17 Scientific Chair. Conference on Music & Eye-Tracking, Frankfurt, Germany  
 2015-16 Editor. *Explorations: The UC Davis Undergraduate Research Journal*  
 2014-16 Neuroscience Retreat Organizing Committee, UCD

## AFFILIATIONS / MEMBERSHIPS

2016- Society for Music Perception & Cognition  
 2015- Association of Women in Science  
 2007- Percussive Arts Society  
 2013-14 Society for Philosophy & Psychology

## PROFESSIONAL DEVELOPMENT & EXPERIENCE

2017 Certificate: Thoughtful Pedagogy for Diverse Learning Environments, *UCD Center for Educational Effectiveness*  
 2016 Certificate: Foundations in Teaching, *UCD Center for Educational Effectiveness*  
 2014 Interdisciplinary Kollege: Social Cognition. *Günne, Germany*  
 2012-13 Percussion Accompanist, Dance Division, *U. of Cincinnati College-Conservatory of Music*  
 2011-13 Intern, Archives & Rare Books Library, *U. of Cincinnati*  
 2010 Symphony Orchestra Academy of the Pacific. *British Columbia, Canada*  
 2009-10 Racial Awareness Pilot Program. *U. of Cincinnati*

## REFERENCES

**Dr. Petr Janata:** Professor of Psychology, Center for Mind & Brain, UC Davis  
 Phone: +1 (530) 297 4471 E-Mail: pjanata@ucdavis.edu

**Dr. Elke Lange:** Scientific Researcher, Max Planck Institute for Empirical Aesthetics  
 Phone: +49 69-8300479-210 E-Mail: elke.lange@aesthetics.mpg.de

**Dr. Joy Geng:** Associate Professor of Psychology, Center for Mind & Brain, UC Davis  
 Phone: +1 (530) 297-4486 E-Mail: jgeng@ucdavis.edu

**Dr. Brenda Rinard:** Lecturer, University Writing Program, UC Davis  
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**Dr. Ian Cross:** Professor of Music and Science, Faculty of Music, U. of Cambridge, UK  
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