

Lauren Fink

lkfink@ucdavis.edu • Center for Mind & Brain
267 Cousteau Place • Davis, CA 95618

Curriculum Vitae

May 2018

EDUCATION

- 2019* Ph.D. Candidate*, Neuroscience, University of California, Davis (UCD), CA, USA
2017 M.Sc., Neuroscience, University of California, Davis, CA, USA
2015 M.Phil., Music Studies, 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 Fellow. 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

2018 ARCS Foundation Achievement Research Award for College Scientists (\$11,000)
 2018 Lesbians Who Tech 2018 Summit Scholarship (\$250)
 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	Cincinnati Scholarship, U. Cincinnati (\$32,000)
2009-13	College-Conservatory of Music Scholarship, U. Cincinnati (\$4,000)
2009-13	Fouces M. Luley Music Scholarship (\$8,000)

PUBLICATIONS

- Fink, L.,** Hurley, B., Geng, J. & Janata, P. (in review). A linear oscillator model predicts dynamic temporal attention and pupillary sensorimotor synchronization to rhythmic musical patterns.
- Fink, L. & Lange, E.** (in press). The application of eye-tracking in music research. *Journal of Eye Movement Research*.
- Hurley, B., **Fink, L.,** & Janata, P. (2018). Mapping the dynamic allocation of attention in musical patterns. *Journal of Experimental Psychology: Human Perception & Performance*. DOI: 10.1037/xhp0000563
- Fink, L.** (2017). Chance operations in neuroscience. In Lane, J. and L. Fink (Eds.), *Allen Otte Folio*, pp. 17-20.
- Fink, L.** (2016). The Greatest. *Pulse Special Issue of Ethnomusicology Review/ Sounding Board*.

EDITED VOLUMES

- Fink, L. & Lange, E.,** Eds. (2018). *Special Issue on Music & Eye-Tracking*. Journal of Eye Movement Research.
- Fink, L.,** Ed. (2017). *Explorations: The UC Davis Undergraduate Research Journal* (vol. 19). The Regents of the University of California.
- J. Lane & **L. Fink,** Eds. (2017). *Allen Otte Folio*.

CONFERENCE PRESENTATIONS

- Fink, L.,** Lange, E., Janata, P. (2018, July). The pupil entrains to prominent periodicities in music. *Talk to be presented at the International Conference on Music Perception & Cognition, Graz, Austria*.
- Fink, L.,** Hurley, B., Geng, J., & Janata, P. (2018, May). Predicting attention and motor responses to musical patterns. *Poster presented at the Stanford Music & Brain Symposium, Palo Alto, CA*.
- Fink, L.,** Ribeiro, J., & White, V. (2018, March). Transforming graduate writing experiences: A new Writing Across the Curriculum (WAC) certificate program. *Symposium presented at the College Composition and Communication Convention, Kansas City, MO*.
- 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.,** & 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.,** Hurley, B., Geng, J. & Janata, P. (2016, July). Pupillary and eyeblink responses to auditory stimuli index attention and sensorimotor coupling. *Proceedings of the 14th 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 14th 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

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| Apr. 2018 | Invited Talk. "The Groove Enhancement Machine." Center for Computer Research in Music and Acoustics, Stanford University. |
| Mar. 2018 | Invited Talk. "Seeing in time: Rhythmic music systematically alters pupil dynamics." Max Planck Institute for Empirical Aesthetics, Frankfurt, Germany. |
| Nov. 2017 | Invited Lecturer. "Music & science research methods for undergraduates." Musicology Department, UC Davis. |
| Oct. 2017 | Invited Speaker. "Stage presence." Ladies Rock Sacramento. |
| July 2017 | Invited Lecturer. "Introduction to literature reviews." Pre-College Program: Mind & Brain, UC Davis. |
| Apr. 2017 | Invited Speaker. "Writing a personal statement." Neuroscience Initiative to Enhance Diversity, UC Davis. |

- Nov. 2016 Invited Speaker. "Predicting audiovisual attention over time." Davis Entrepreneurs Meet-Up, Davis Roots, Davis, CA.
- Oct. 2016 Invited Panelist. "How to publish as an undergraduate." Undergraduate Research Center, UC Davis.
- July 2016 Invited Lecturer. "Assessing attention to music using eye-tracking." Stanford Summer Arts Institute, Stanford University.
- May 2016 Invited Lecturer. "Music & visual motor behavior." Musicology Department, UC Davis.
- Apr. 2016 Workshop Leader. "Forming & maintaining writing groups." Writing Across the Curriculum Program, UC Davis.
- Apr. 2016 Invited Panelist. "The first abstract: Teaching undergraduates to summarize their research." Professors for the Future, UC Davis.
- Apr. 2016 Invited Speaker. "The importance of synchronization and the power of music." Sunday Assembly, Sacramento, CA.
- Apr. 2016 Invited Panelist. "Mentoring scientific writing: How to give effective, time-efficient feedback." Professors for the Future, UC Davis.
- Apr. 2015 Invited Speaker. "Preparing your graduate school application: Student's perspective." Neuroscience Initiative to Enhance Diversity, UC Davis.
- Dec. 2014 Speaker. "Attention mapping via amplitude modulated sounds." UC Davis Center for Neuroscience.
- Feb. 2013 Drum set player. "Science! The Musical." World Premiere. Corpus Playroom, Cambridge, UK.
- Oct. 2013 Guest Lecturer. "It's all in the mind." Cambridge Festival of Ideas, Cambridge, UK.
- Apr. 2013 Senior Recitalist. "Matriculaphony: A Percussive Circus on Van Meter Ames' *A Book of Changes*." U. of Cincinnati College-Conservatory of Music.

SERVICE

- 2018-20 Peer-review panelist. California Arts Council
- 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*
- 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
- 2016-2017 Editor-in-Chief. Explorations: The UC Davis Undergraduate Research Journal
- 2015-16 Editor. Explorations: The UC Davis Undergraduate Research Journal
- 2014-16 Neuroscience Retreat Organizing Committee, UCD

AFFILIATIONS / MEMBERSHIPS

- 2017- Women in Music Information Retrieval

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: AAAS Science Communication Program
 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
 Phone: +1 (530) 752-6283 E-Mail: bjrinarad@ucdavis.edu

Dr. Ian Cross: Professor of Music and Science, Faculty of Music, U. of Cambridge, UK
 Phone: +44 (0)1223 335185 E-Mail: ic108@cam.ac.uk

Dr. Ilya Vilinsky: Director of Undergraduate Neuroscience, U. of Cincinnati
 Phone: +1 (513) 556 9749 E-Mail: ilya.vilinsky@uc.edu

Prof. Allen Otte: Professor of Percussion, U. of Cincinnati College-Conservatory of Music
 Phone: +1 (513) 556 9423 E-Mail: allen.otte@uc.edu