

Chris Angeloni

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Education

PhD Candidate	Psychology, University of Pennsylvania GPA: 3.9	Aug 2014 - present
B.S.	Neuroscience, Lafayette College <i>Magna cum laude</i> - GPA: 3.9	May 2012
B.A.	Studio Art, Lafayette College <i>Magna cum laude</i> - GPA: 3.9	May 2012

Research Experience

Graduate Thesis: Cortical Mechanisms of Auditory Behavior <i>University of Pennsylvania</i> Advisor: Dr. Maria Geffen	June 2015 - present
OIST Computational Neuroscience Course <i>Okinawa Institute of Science and Technology</i> Project: LIF circuit model of gain modulation.	June 2018
KITP: Physics of Hearing Workshop <i>Kavli Institute at UC Santa Barbara</i>	June 2017
Graduate Lab Rotations <i>University of Pennsylvania</i> Advisors: Dr. Russell Epstein & Dr. Michael Kahana	Aug 2014 - June 2015
Research Analyst <i>Vanderbilt University</i> Advisor: Dr. Frank Tong	June 2012 - June 2014
Neuroscience Honors Thesis/BCI Think-Tank <i>Lafayette College</i> Advisors: Dr. Lisa Gabel & Dr. Yih-Chuong Yu	May 2011 - May 2012

Publications

Wood, K. C., **Angeloni, C.**, Oxman, K., Clopath, C., & Geffen, M. N. (2020). Neuronal activity in sensory cortex predicts the specificity of learning. *bioRxiv* 2020.06.02.128702.

Betzel, R.F., Wood, K.C., **Angeloni, C.**, Geffen, M.N., Bassett, D.S. (2019). Stability of spontaneous, correlated activity in mouse auditory cortex. *PLOS Computational Biology* 15 (12), e1007360.

Angeloni C., Geffen M.N. (2018). Contextual modulation of sound in the auditory cortex. *Current Opinion in Neurobiology*, 49:8-15.

Lorenc, E.S., Pratte, M.S., **Angeloni, C.**, Tong, F. (2014). Expertise for upright faces improves the precision but not the capacity of visual working memory. *Attention, Perception, & Psychophysics*, 76(7):1975-84.

Angeloni, C., Salter, D., Corbit, V., Lorence, T., Yu, Y-C., & Gabel, L.A. (2012). P300-based brain-computer interface memory game to improve motivation and performance. *Proc. of Ann. NEBEC*, 38:35-36.

Professional Memberships

Society for Neuroscience	Jul 2013 - present
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Vision Sciences Society	Feb 2013 - 2015
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Honors & Awards

F31 DC016524 NRSA	April 2017 - present
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Predoctoral Ruth L. Kirschstein National Research Service Award,
National Institute on Deafness and Other Communication Disorders,
“The function of cortical gain adaptation in detecting sounds in noise.”

NSF GRFP Honorable Mention	April 2016
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NSF IGERT Traineeship in Complex Scene Perception	Aug 2014 - 2016
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Training fellowship for interdisciplinary, computational research.

Rappolt '67 and Oeschle '57 Neuroscience Prize	April 2012
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Awarded to an undergraduate senior based on scholarship in the classroom and laboratory and service to the major.

Federal SMART Grant	2010 - 2012
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Federal grant awarded to high performing students in the natural sciences.

Lafayette Marquis Scholar	2008 - 2012
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Academic scholarship awarded based on merit.

Lafayette Dean's List	2008 - 2012
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Awarded for maintaining a cumulative GPA greater than 3.5.

Teaching Experience

Teaching assistant for CIS140: Introduction to Cognitive Science Fall 2015

Teaching assistant for PSYC149: Cognitive Neuroscience Spring 2016

Mentoring:

Stamati Lliapis – undergraduate student, University of Pennsylvania 2014 – 2017

Nitay Caspi – undergraduate student, University of Pennsylvania 2016

Public Engagement

Science After Hours: 'Don't Try This at Home', Franklin Institute 2017
Designed and presented demos of acoustical resonance.

Science After Hours: 'Nerd Olympics', Franklin Institute 2015
Helped run an auditory illusion booth to teach young adults audition.

Brain Blast 2013 – 2014
Vanderbilt Health program for teaching children about neuroscience.

TEDxLaf 2011 – 2012
Promoted and organized a TED-style talk series at Lafayette College to educate and inspire the public with science and art-related talks.

O+ Festival Participant 2011
Designed and installed original artwork for the O+ Festival, an event providing health care and awareness for artists.

Skills

Methods: electrophysiology, two-photon microscopy, optogenetics, fMRI, EEG, eye tracking, probabilistic modelling, machine learning, signal analysis

Programming: MATLAB, Bash, Python, R, HTML/CSS, JavaScript, Arduino, OpenGL

Software: Kilosort2, phy, Brian2 simulator, PrairieLink, Plexon, FSL, Freesurfer, BrainVoyager, Unity, Blender, SPSS, MS Office, Adobe Suite

References

Dr. Maria Geffen, Associate Professor
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Dr. Lisa Gabel, Associate Professor
Psychology and Program in Neuroscience
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