Chris Angeloni

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hris.angeloni@gmail.co Website

Education & Training

Postdoctoral Neuroscience, University of Pennsylvania Jan 2022-prese	nt
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Researcher Advisor: Dr. Maria N. Geffen

PhD Psychology, University of Pennsylvania December 2022

Thesis: Perceptual consequences and neural mechanisms of auditory adaptation.

Advisor: Dr. Maria N. Geffen

B.S. Neuroscience, Lafayette College May 2012

Magna cum laude - GPA: 3.9

B.A. Studio Art, Lafayette College May 2012

Magna cum laude - GPA: 3.9

Research Experience

OIST Computational Neuroscience Course June 2018

Okinawa Institute of Science and Technology Project: LIF circuit model of gain modulation.

KITP: Physics of Hearing Workshop June 2017

Kavli Institute at UC Santa Barbara

Research Analyst June 2012 - June 2014

Vanderbilt University Advisor: Dr. Frank Tong

Neuroscience Honors Thesis/BCI Think-Tank May 2011 - May 2012

Lafayette College

Advisors: Dr. Lisa Gabel & Dr. Yih-Chuong Yu

Publications

Angeloni, C.F., Mlynarski, W., Williams, A.M., Wood, K.C., Garami, L., Hermundstad, A., Geffen, M.N. (2021). Cortical efficient coding shapes behavioral performance. *BioRXiv* 2021.08.11.455845. Under review.

Williams, A.M., **Angeloni, C.F.**, Geffen, M.N. (2021). Sound improves visual orientation coding in the primary visual cortex. *BioRXiv* 2021.08.03.454738. Under review.

Lesicko, A.M.H., **Angeloni, C.**, Blackwell, J.M., Di Biasi, M., Geffen, M.N. (2021). Cortico-fugal regulation of predictive coding. *BioRXiv* 2021.04.12.439188. Under review.

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. Under review.

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

Professional Memberships		
Society for Neuroscience	Jul 2013 - present	
Vision Sciences Society	Feb 2013 - 2015	
Honors & Awards		
F31 DC016524 NRSA Predoctoral Ruth L. Kirschstein National Research Service Awar National Institute on Deafness and Other Communication Disord "The function of cortical gain adaptation in detecting sounds in the second service of the second second service of the second service of the second service of the second service of the second second service of the second second service of the second s	lers,	
NSF GRFP Honorable Mention	April 2016	
NSF IGERT Traineeship in Complex Scene Perception Training fellowship for interdisciplinary, computational research.	Aug 2014 - 2016	
Rappolt '67 and Oeschle '57 Neuroscience Prize Awarded to an undergraduate senior based on scholarship in the classroom and laboratory and service to the major.	April 2012	
Federal SMART Grant Federal grant awarded to high performing students in the natural sciences.	2010 - 2012	
Lafayette Marquis Scholar Academic scholarship awarded based on merit.	2008 - 2012	
Lafayette Dean's List Awarded for maintaining a cumulative GPA greater than 3.5.	2008 - 2012	

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 Nitay Caspi – undergraduate student, University of Pennsylvania	2014 – 2017 2016	
Public Engagement		
Science After Hours: 'Don't Try This at Home', Franklin Institute Designed and presented demos of acoustical resonance.	2017	
Science After Hours: 'Nerd Olympics', Franklin Institute Helped run an auditory illusion booth to teach young adults audition.	2015	
Brain Blast Vanderbilt Health program for teaching children about neuroscience.	2013 – 2014	
TEDxLaf Promoted and organized a TED-style talk series at Lafayette College to educate and inspire the public with science and art-related talks.	2011 – 2012	
O+ Festival Participant Designed and installed original artwork for the O+ Festival, an event providing health care and awareness for artists.	2011	

Skills

Methods: chronic and acute electrophysiology, optogenetics, operant behavioral training, probabilistic modelling, machine learning, general linear models, two-photon imaging, fMRI, EEG, eye tracking

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

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

References

Dr. Maria Geffen, Associate Professor Department of Neuroscience University of Pennsylvania 3400 Spruce St., 5 Ravdin Philadelphia, PA 19104 (215) 898-0782 mgeffen@pennmedicine.upenn.edu

Dr. David Brainard, RRL Professor of Psychology Department of Psychology University of Pennsylvania 3710 Hamilton Walk, 417 Goddard Labs Philadelphia, PA 19104 (215) 573-7579 brainard@psych.upenn.edu

Dr. Yale Cohen, Professor
Department of Otorhinolaryngology
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