

Christina Boardman ♦ Christina.Garnet.Boardman@gmail.com ♦ 1.805.455.0039
1351 Rialto LN, Santa Barbara, CA, USA 93105

EDUCATION:

Joint Master in Neuroscience, University of Strasbourg, Strasbourg, Bas-Rhin, France

M.Sc. Master de Neuroscience, Cum Laude (November, 2019)

Thesis: Shifting Expectations: Criterion shift association of EEG, in a recognition memory security patrol paradigm.

University of Basel, Basel, Basel-Stadt, Switzerland

Graduate Study Abroad. Course: Developmental Neuroscience

Bernstein Center Freiburg, University of Freiburg, Freiburg, Baden-Württemberg, Germany

Graduate Study Abroad. Courses: Quantitative Methods, Measurement and Model

Scripps College, Claremont, CA

B.A. in Cognitive Neuroscience (May 2012)

Thesis: Navigating the Diverse Dimensions of Stereotypes, with Domain Specific Deficits.

RESEARCH EXPERIENCE:

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| January 2018-
Present | Visiting Scholar (10-15 hours a week in lab). Laboratory of Dr. Michel Miller. Department of Psychological and Brain Sciences, University of California, Santa Barbara, Santa Barbara, USA. Project: Shifting Expectations: Criterion shifting mediation of EEG in a security patrol paradigm. Contributed to task design and programmed task (in Psychophysics Toolbox). Designs behavioral and EEG analyses. Collects EEG data (64 channel bio-semi) and creates time-frequency analysis (EEGLAB, in MATLAB). Conducted statistical analysis of ERP (in R) and ERSP (in MATLAB) data. |
| February 2015-
June 2015 | Master's intern (10-20 hours a week independent work, periodically in lab). Laboratory of Dr. Salvatore Maria Aglioti, Department of Psychology, Sapienza University of Rome, Rome, Italy. Supervised by Dr. Marco Tullio Liuzza. Project: Disease and Disgust in Social Biases. Developed translated original test materials into Italian, collected survey data (in Survey Monkey), analyzed survey data (in R). |
| 2014 June | Rotation Intern (25-35 hours a week). Laboratory of Dr. Pierre Levan, Department of Radiology, University of Freiburg, Freiburg, Germany. Supervised by Mr. Burak Akin. Project: Resting state networks in stroke patients. Conducted an independent component analysis (ICA) of stroke patient and control fMRI data, identifying resting state networks (in FSL). |
| 2014 April | Rotation Intern (30-35 hours a week). Laboratory of Dr. Markus Heinrichs, Department of Biological and Personality Psychology, University of Freiburg, Freiburg, Germany. Supervised by Dr. Bastian Schiller. Project: Inhibition and Intergroup Bias. Programmed a stop signal task (in Presentation). |
| 2012-2013 | Post-Baccalaureate Research Education Program Fellow (35-40 hours a week). Laboratory of Dr. Krish Sathian, Department of Neurology, Emory University, Atlanta, GA, USA. Supervised by Dr. Simon Lacey. Project: A Multi-Voxel Pattern Analysis study of Crossmodal Pitch-Space Associations. Contributed to experimental design, created pitch stimuli (in PYTHON), programmed behavioral task (in Presentation), analyzed pilot data (in FSL). Installed pyMVPA in lab mac computer and independently studied pyMVPA. |

- 2012-2012 Research Assistant (Periodic). Social Decisions Laboratory, Scripps College, Claremont, CA, USA. Laboratory of Dr. Michael Spezio. Assisted Thesis Student Danielle Tucci with EEG net preparation, application, and cleaning, using 256 channel dense array nets manufactured by EGI.
- 2011-2012 Thesis Student (3-10 hours a week). Social Decisions Laboratory, Scripps College, Claremont, CA, USA. Laboratory of Dr. Michael Spezio. Project: Navigating the Diverse Dimensions of Stereotypes, with Domain Specific Deficits: Processes of Trait Judgments about Individuals with Disabilities. Submitted IRB proposal. Developed original research question, designed experiment. Wrote original multi modal competence survey. Collected and analyzed survey data (SPSS).
- 2009 Volunteer Research Assistant (June-October, 3 hours a week). Laboratory of Dr. Todd Kippin, Department of Psychology, University of California, Santa Barbara, Santa Barbara, CA, USA. Supervised by Dr. Joanna Campbell. Sampled mouse brain tissue for histological analysis using a cryostat.

RESEARCH SKILLS:

<u>Very Familiar (frequently used in research)</u>	<u>Familiar (used in courses/periodically in research)</u>
MATLAB Psychophysics Toolbox	PYTHON (research and courses)
EEGLAB: ERSP and ERP preprocessing and analysis, ERSP bootstrapping.	SPM8: EEG and fMRI preprocessing and analysis (course)
Presentation (Neurobehavioral Systems).	Application of an EEG net (research and course)
FSL: fMRI preprocessing and analysis.	Structural Equation Modeling in AMOS (course)
Survey Design in Survey Monkey.	Statistical Analysis in R (research)
Survey Design in Qualtrics.	Statistical analysis in SPSS

TEACHING EXPERIENCE:

- June 2020- Present Religious Education Coordinator, Unitarian Society of Santa Barbara. Designed and ran online and outdoor pandemic programming. Retained 30 attendees out of 39 in 2019 and recruited 4 pandemic volunteers. Adapted Minecraft world religions curriculum for online instruction. Configured Minecraft server to allow students with different versions to play together. Created “UU Kid’s Science” YouTube series exploring the intersection between social justice and science: <https://youtu.be/UHy15tTy9Yk>
- February 2020- August 2020 Robotics and programming teacher. Terrific Scientific, Santa Barbara. Developed and taught weeklong summer course in Java and Python for 4th-6th graders. Facilitated after school robotics and science to K-6th students. Designed customized projects that helped 4th-6th students develop their knowledge of programming and mechanics.
- January 2018- June 2020 Maker Space Staff and Religious Education Teacher, Unitarian Society of Santa Barbara. Maker Space Workshop, Summer 2018 and 2019: assist students in designing creative projects from trash, refurbishing computers, and making circuit projects. Teaching: Designed classes in ethics, activism, and spirituality for 6-10 year-old students. Planned discussion for small group of 15-18 year-olds exploring spirituality and ethics.
- September 2018- September 2016 Workshop Facilitator, Pacific Southwest District Young Adults Camp, Idyllwild, CA. Created and taught “Disability, Accessibility, and Intersectionality” at a Unitarian social justice camp for 18-35 year old adults. Asked to repeat this popular workshop for the 2018 camp.

- 2015-2016 Gateway Tutor, English Skills Department, Santa Barbara City College, Santa Barbara, CA. Taught grammar and writing skills to junior college students.
- January 2013 Instructor, STEM Day for Girls. Emory Center for Science Education, Atlanta, GA. Designed interactive presentation on neuroanatomy and sensory neuroscience for girls at Factory Shoals Middle School, Douglasville, GA.
- 2011-2012 Instructor, Sciencebus, Harvey Mudd College, Claremont, CA. Organized and lead 35 fifth graders. Led weekly experience learning projects asking students to design a project according to “The scientific method,” grow mold on petri dishes, learn about “Polymers” through making Gak or launching bottle rockets.

PUBLICATIONS:

- Boardman, C. Navigating the Diverse Dimensions of Stereotype Content, with Domain Specific Deficits: Processes of Trait Judgments about Individuals with Disabilities. Scripps Senior Theses. Paper 138. (2012). Available at: scholarship.claremont.edu

INVITED PRESENTATIONS:

- Boardman, C., Layher, E., Vettel, J., Miller, MB. Criterion shift association of Electroencephalography, in a recognition memory security patrol paradigm. Cognitive Neuroscience Society Virtual Annual Conference. (May 2nd, 2020).
- Boardman, C., Layher, E., Miller, M.B. Shifting Expectations: Criterion shifting mediation of EEG in a security patrol paradigm. Bay Area Memory Meeting. University of California, Davis, Davis, California, USA (August 14th, 2018).
- Boardman, C., McCormick, K., Lacey, S., and Sathian, K. A Multi-Voxel Pattern Analysis Study of Crossmodal Pitch-Space Associations. Emory University STEM Research and Career Symposium, Atlanta, GA, USA (April 3-5, 2013).
- Boardman, C. Navigating the Diverse Dimensions of Stereotype Content with Domain Specific Deficits: Processes of Trait Judgments about Individuals with Disabilities. Psi Chi Research Conference, Scripps College, Claremont, CA, USA (2012).

GRADUATE COURSES: Quantitative Methods (Python), Measurement and Model (Mathmatica), Research Program (research design and presentation), Genetic Models in Animal Expression, Neuroanatomy, Neurophysiology, Neuropharmacology, Stem Cells, Sensory Neurophysiology, Neurophysiology of memory, Neurobiology of rhythms, Molecular and Cellular Neuroscience.

UPPER DIVISION BACALAUATE COURSES:

Psychological Statistics, Neuropharmacology, Abnormal Psychology, Cognitive Psychology, Cognitive Psychology Lab, Physiological Psychology, Cognitive Neuroscience, Cognitive Neuroscience Lab, Clinical Neuropsychology, Senior Research, Controversies in Cognitive Neuroscience, Structural Equation Modeling, Senior Thesis, Neuroscience II: Systems.

OTHER EXPERIENCE:

- October 2018- Present Member, Santa Barbara Americorps People Experiencing Homelessness and Veterans. Street outreach team. Quarter time member. Got all four primary clients housing ready. Housed three clients.

- May 2018-
September 2018 Accessibility Coordinator Pacific Southwest District Young Adults Camp,
Idyllwild, CA. Researched and designed camp accessibility policy.
- September 2016-
November 2016 Technical Assistant, SB for Hillary, Santa Barbara, California. Trained phone
bank volunteers to use online phone bank. Answered volunteer questions and
provided technical aide. Figured out how to change phone banking state lists,
using the online system.
- July 2013 Volunteer, B.R.A.I.N. program, Atlanta Children's Hospital, Atlanta, GA. Dr.
Julie Haarbauer-Krupa. Researched and wrote reports on university scholarships
and adaptive after school activities for teenagers with traumatic brain injuries.
- 2010-2012 Vice President (September 2011-2012), Fun Committee, Claremont Colleges,
Claremont, CA, USA. Planned and organized social events for young adults with
autism. Designed event themes and coordinated activities.

REFERENCES:

Michael B Miller, PhD
Department of Psychology and Brain Sciences
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Santa Barbara, California, United States
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Michael L. Spezio, PhD
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