Ilina Bhaya-Grossman

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I am broadly interested in the neural correlates of uniquely human communication, specifically models of language activation and the mechanics of shared communicative contexts. As a researcher, I prioritize combining theory, experimentation, and statistical methods in order to address questions holistically. In addition to research, I am passionate about activism, ethics, and education.

Education

University of California, Berkeley
B.A., Cognitive Science and Computer Science, 2018.
Magna cum laude.

Thesis

"Dual-EEG Evidence for a Shared Cognitive Space Underlying-Human Communication"
We examined direct neural evidence for shared representations in communication, testing whether successful non-verbal communication is reliant on a shared cognitive space. Using electroencephalographic (EEG) data acquired simultaneously during live communicative interactions, we show that communicators' neural representations align to one another over the course of the communicative exchange. This project challenges current signal-centered accounts of human communication and will influence the direction of future experimentation in the field (paper in preparation).

Research

University of California, San Francisco
Center for Integrated Neuroscience
Edward Chang Laboratory, Clinical Research Coordinator
Project: Bilingual Perceptions of Vowel and Voice Onset Time (ECoG)

University of California, Berkeley
Helen Wills Center for Neuroscience
Robert Knight Laboratory, Research Assistant
Project: Hyperscanning during Non-verbal Communication Game (EEG)

Stanford University, Bioengineering Dept.
KC Huang Laboratory, Research Assistant
Project: CUDA GPU Processing for Cell Movement Annotation

Awards and Honors

Robert J. Glushko Prize for Distinguished Undergraduate Research in Cognitive Science
Highest Honors in Cognitive Science
Upsilon Pi Epsilon Computer Science Honor Society
Phi Beta Kappa Honor Society

Publications

Ursell, T.S., Lee, T.K., Shiomi, D., Shi, H.,Tropini, C., Monds, R.D., Colavin, A., Billings, G., Bhaya-Grossman, I., Broxton, M., Huang, B.E., Niki, H., Huang, K.C. (2017). "Rapid, precise quantification of bacterial cellular dimensions across a genomic-scale knockout library". BMC Biology.

Teaching

University of California, Davis
Programming Tutor, sEEG/ECoG Fieldtrip Bootcamp, 2019

University of California, Berkeley
Academic Intern, Interpretation of Computer Programs, 2016-2017
Computer Science Mentor, Data Structures, 2015-2017
Teaching Assistant, Python for Social Scientists (D-LAB), 2015-2016

Languages and Skills

English (native), Chinese (proficient)
Java, Python, Matlab, LaTeX, C, C++, SQL, Golang, Angular 4, HTML, CSS, R

Internships

Workday Inc.
Software Engineer
Project: Optimizing Performance and Diagnosing Code Performance Deficiencies with JProfiler

Scoredata
Software Engineer
Project: Integrating Angular 4 into the ScoreData Labs Website Framework

Reach Fellowship International
Curriculuum Developer
Project: Developing a Job Readiness Re-entry Manual for Female Inmates

References

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