

Ilina Bhaya-Grossman

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Education

**University of California, San Francisco
and University of California, Berkeley**
Ph.D. Candidate, Bioengineering, present

University of California, Berkeley
B.A., Cognitive Science and Computer Science, 2018
Magna cum laude (3.92 GPA)

Research Appointments

**University of California, San Francisco
Center for Integrative Neuroscience**
Edward Chang Laboratory, Graduate Student, 2020-present
Project: Neural Correlates of Language-experience in the Human Temporal Lobe

Basque Center for Cognition, Brain, and Language
James Magnuson Laboratory, Visiting Scholar, 2023
- Project: Mechanisms of Cross-lingual Speech Comprehension in Computational Models

**University of California, Berkeley
Helen Wills Center for Neuroscience**
Robert Knight Laboratory, Research Assistant, 2016-2018
Project: Hyperscanning during Non-verbal Communication Paradigm

**Stanford University
Bioengineering Department**
KC Huang Laboratory, Research Assistant, 2012-2014
Project: CUDA GPU Processing for Automated Bacterial Cell Annotation

Publications

Oganian Y.*, **Bhaya-Grossman I.***, Chang E.F. (2023). “Vowel and formant representation in the human auditory speech cortex”. *Neuron*.

Bhaya-Grossman I., Chang E.F. (2021). “Speech Computations in the Human Superior Temporal Gyrus”. *Annual Review of Psychology* (Volume 73).

Llorens A.*, Tzovara A.*, **Bhaya-Grossman I.**, Bidet-Caulet A., Chang W., Cross Z.R., Dominguez-Faus R., Flinker A., Fonken Y., Gorenstein M.A., et al. (2021). “Gender bias in academia: A lifetime problem that needs solutions”. *Neuron*.

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

Under Review

Silva A., Liu J., Metzger S., **Bhaya-Grossman I.**, et al. “A Bilingual Speech Neuroprosthesis”.

Gwilliams, L.* , **Bhaya-Grossman I.***, Zhang, Y.* , Scott, T.* , Harper, S.* , Levy, D.* “Computational Architecture of Speech Comprehension in the Human Brain”.

In Preparation

Bhaya-Grossman I., Leonard M., Zhang Y., Gwilliams L., Chang E.F. “Language experience drives phonological specialization in the human temporal lobe”.

Honors and
Awards

National Science Foundation GRFP Fellow, 2020

UCSF Discovery Fellow, 2022

H2H8 Explorer Award, 2023

CogSci Society Mind Challenge, 1st place video submission, 2023

UCSF Grad Slam Finalist, 1st place, 2024

Robert J. Glushko Prize

Distinguished Undergraduate Research in Cognitive Science, 2018

Highest Honors in Cognitive Science, 2018

Travel

Travel Award, Advances and Perspectives in Auditory Neuroscience (2023)

Travel Award, Society for the Neurobiology of Language (2023)

Conference Travel Award, Associated Students of the Graduate Division (2022)

Training and Professional Development Award, Society for Neuroscience (2021)

Travel Award, Hong Kong University of Science and Technology Hackathon (2017)

Travel Award, Tapia Conference for Diversity in Computing (2015)

Professional
Memberships

Society for the Neurobiology of Language, 2019-present

Society for Neuroscience, 2020-present

Phi Beta Kappa Honor Society, 2017-present

Computer Science Honor Society, 2016-2018

Upsilon Pi Epsilon

Cognitive Science Student Association, 2015-2018

Invited Talks

Bay Area Language Processing Workshop, Stanford University, 2024.

UCSF Neurosciences Research in Progress Talks, 2024.

Weill Institute for Neuroscience Seminar Series (WINSS), 2024.

McDonald Lab Journal Club, UCSD, 2024.

Advances and Perspectives in Auditory Neuroscience (APAN), 2023.

University of Irvine Center for Hearing Research, 2023.

Center for Integrated Neuroscience at the University of Tübingen, 2023.

Basque Center for Cognition, Brain, and Language (BCBL), 2023.

Posters	<p>Bhaya-Grossman I., Leonard M., Zhang Y., Gwilliams L., Johnson K., Chang E.F. (2023) “Language-familiarity Dependent Encoding of Speech in Human Temporal Lobe”. <i>Society for the Neurobiology of Language (SNL)</i></p> <p>Zhang Y., Gwilliams L., Bhaya-Grossman I., Leonard M., Chang E.F. (2023) “Segmenting Words from Continuous Speech in the Human Temporal Cortex.”. <i>Society for the Neurobiology of Language (SNL)</i> <i>Advances and Perspectives in Auditory Neuroscience (APAN)</i></p> <p>Bhaya-Grossman I., Oganian Y., Chang E.F. (2021) “Vowel Encoding In The Human Superior Temporal Gyrus”. <i>Society for Neuroscience (SfN)</i></p> <p>Bhaya-Grossman I., Oganian Y., Chang E.F. (2020) “Context-dependent Encoding of Vowel Formants in Human Superior Temporal Gyrus”. <i>Society for the Neurobiology of Language (SNL)</i> <i>Advances and Perspectives in Auditory Neuroscience (APAN)</i></p>
Academic Service	<p>Ad hoc Reviewer Springer Nature: Scientific Reports</p> <p>Designer and Illustrator Berkeley Science Review, 2024</p>
Teaching	<p>University of California, San Francisco Department of Neurosurgery, ENVISION Facilitator, 2020-present Course: Chang Lab Python Tutorial</p> <p>University of California, Davis Department of Neurosurgery, Programming Tutor, 2019 Course: sEEG/ECoG Fieldtrip Bootcamp</p> <p>University of California, Berkeley Computer Science Department, Tutor, 2015-2017 Courses: Data Structures, Interpretation of Computer Programs</p> <p>Data-Lab, Teaching Assistant, 2015-2016 Course: Python for Social Scientists</p>
Mentoring	<p>Ashley Qin, Rotation Student, 2024</p> <p>Marcos Lobato Scharfhausen, Summer Intern, 2022</p> <p>Carolina Varona Arguelles, Summer Intern, 2022</p>
Languages and Skills	<p>English (native), Chinese (advanced)</p> <p>Python, Matlab, L^AT_EX, C, C++, SQL, Golang, Angular 4, HTML, CSS</p>

References

Dr. Edward Chang
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