Stanford

Iliana Erteza Bray

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Resume available Online

CONTACT INFORMATION

- **Email**

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Bio

BIO

Iliana is a postdoctoral researcher with the Brain Interfacing Laboratory. She graduated from Stanford with her Ph.D. in Electrical Engineering in 2023.

She has been awarded the Stanford Gerald J. Lieberman Fellowship (2022), the American Heart Association Predoctoral Fellowship (2021), the Cadence Women in Technology Scholarship (2021), and the NSF Graduate Research Fellowship (2017). She received her BS in Electrical Engineering with honors from Stanford in 2017 and was awarded the Firestone Medal for Excellence in Undergraduate Research for her honors thesis.

Iliana's long-term research interests involve combining electrical engineering and neuroscience to further our understanding of motor control and one day incorporate this new knowledge into improved brain-computer interfaces or enhanced rehabilitation for clinical populations with compromised mobility.

HONORS AND AWARDS

- Gerald J. Lieberman Fellowship, Stanford University (2022)
- Predoctoral Fellowship, American Heart Association (2021)
- Women in Technology Scholarship, Cadence (2021)
- Justice, Equity, Diversity & Inclusion (JEDI) Travel Award, Stanford School of Engineering (2021)
- Graduate Research Fellowship, National Science Foundation (2017)
- Firestone Medal for Excellence in Undergraduate Research, Stanford University (June 2017)

EDUCATION AND CERTIFICATIONS

- Ph.D., Stanford University , Electrical Engineering (2023)
- B.S., Stanford University , Electrical Engineering (2017)

LINKS

- LinkedIn: https://www.linkedin.com/in/iliana-bray/

Publications

PUBLICATIONS

- **Neuroelectrophysiology-Compatible Electrolytic Lesioning** *eLife*
  Bray, I. E., Clarke, S. E., Casey, K., Nuyujukian, P.
  2023

- **Frequency shifts and depth dependence of premotor beta band activity during perceptual decision-making.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
  Chandrasekaran, C., Bray, I. E., Shenoy, K. V.
  2019

- **Exploration of available feature detection and identification systems and their performance on radiographs**
  Wantuch, A. C., Vita, J. A., Jimenez, E. S., Bray, I. E., Grim, G. P., Barber, H. B., Furenlid, L. R.
  SPIE-INT SOC OPTICAL ENGINEERING.2016

- **Hybrid object detection system for X-ray radiographs**
  Vita, J. A., Wantuch, A. C., Jimenez, E. S., Bray, I. E., Grim, G. P., Barber, H. B., Furenlid, L. R.
  SPIE-INT SOC OPTICAL ENGINEERING.2016

- **Exploring the feasibility of traditional image querying tasks for industrial radiographs**
  Bray, I. E., Tsai, S. J., Jimenez, E. S., Barber, H. B., Furenlid, L. R., Roehrig, H. N.
  SPIE-INT SOC OPTICAL ENGINEERING.2015