Stanford



Sydney Hunt

Ph.D. Student in Electrical Engineering, admitted Autumn 2023

Bio

BIO

Sydney Hunt (she/her), from Cornwall, New York, is a Knight-Hennessy Scholar pursuing a PhD in electrical engineering with a focus on brain-computer interfaces (BCI) at Stanford School of Engineering. She is advised by Paul Nuyujukian, MD, PhD in the Brain Interfacing Laboratory.

She currently serves as a Trustee on the Duke University Board of Trustees, Knight-Hennessy Scholar Ambassador, and on the Knight-Hennessy Scholar Experience Committee. She graduated with distinction from Duke University with bachelor's degrees in electrical/computer engineering and computer science (concentration in artificial intelligence and machine learning), and a minor in gender, sexuality, and feminist studies.

An aspiring professor, Sydney passionately commits herself to STEM retention as a founding member of both the nonprofit CS Sidekicks and Duke's S.P.I.R.E. Fellows Living Learning Community. She conducted and published her BCI research at Caltech (Richard Andersen's lab) and MIT (Polina Anikeeva's lab) through the WAVE Fellows and MIT SRP-Bio programs, respectively. She enjoys playing soccer, trying new food, and dad jokes. Sydney is certified in Mental Health First Aid and a recipient of Duke's Reginaldo Howard Memorial Scholarship.

HONORS AND AWARDS

- Knight-Hennessy Scholar, Stanford University (2023)
- Reginaldo Howard Memorial Scholarship, Duke University (2019)
- Center for Mind, Brain, Computation and Technology Fellowship, Wu Tsai Neurosciences Institute at Stanford University (2024)
- National Science Foundation Graduate Research Fellowship Program (Honorable Mention), National Science Foundation (2025)

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Trustee, Duke University Board of Trustees (2023 - present)

PROGRAM AFFILIATIONS

- Knight-Hennessy Scholars

EDUCATION AND CERTIFICATIONS

- Minor, Duke University , Gender, Sexuality, and Feminist Studies (2023)
- B.S., Duke University , Computer Science (Concentration Artificial Intelligence and Machine Learning) (2023)
- B.S.E., Duke University , Electrical/Computer Engineering (2023)

LINKS

- LinkedIn: https://www.linkedin.com/in/sydney-hunt

Research & Scholarship

LAB AFFILIATIONS

- Paul Nuyujukian, Brain Interfacing Laboratory (5/7/2024)

Publications

PUBLICATIONS

- **Multifunctional Neural Probes Enable Bidirectional Electrical, Optical, and Chemical Recording and Stimulation In Vivo.** *Advanced materials (Deerfield Beach, Fla.)*
  Driscoll, N., Antonini, M., Cannon, T. M., Maretich, P., Olaitan, G., Van, V. D., Nagao, K., Sahasrabudhe, A., Paniagua, E. V., Frey, E. J., Kim, Y. J., Hunt, S., Hummel, et al
  2024: e2408154

- **Fiber-based Probes for Electrophysiology, Photometry, Optical and Electrical Stimulation, Drug Delivery, and Fast-Scan Cyclic Voltammetry In Vivo.** *bioRxiv : the preprint server for biology*
  Driscoll, N., Antonini, M. J., Cannon, T. M., Maretich, P., Olaitan, G., Phi Van, V. D., Nagao, K., Sahasrabudhe, A., Vargas, E., Hunt, S., Hummel, M., Mupparaju, S., Jasanoff, et al
  2024

- **Identifying Risk Factors for Blindness From Glaucoma at First Presentation to a Tertiary Clinic.** *American journal of ophthalmology*
  Shi, A., Berchuck, S. I., Jammal, A. A., Singh, G., Hunt, S., Roche, K., Mukherjee, S., Medeiros, F. A.
  2023; 250: 130-137

- **Robotic Arm Control Through Algorithmic Neural Decoding and Augmented Reality Object Detection** *Caltech Undergraduate Research Journal*
  Hunt, S.
  2022