# Alex Estrada Berlanga, Ph.D. Candidate

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https://alejandroaestrada.com/



### **Employment History**

2023 – · · · Research Associate, UC San Diego, Halicioğlu Data Science Institute.

Project: GraFT (Graph-Filtered Temporal Dictionary Learning)

2022 - · · · Software Engineer, NEquest.

AI-based teleneurology platform. Face and voice analysis lead.

2022 – 2023 MATLAB Community Toolbox Software Developer, MathWorks, Neuroscience.

Toolboxes: EEGLAB-ml, Neurodata Without Borders (NWB), Brain Imaging Data Structure

(BIDS).

**Research Associate,** University of California, Davis, Department of Neurology.

iEEG Studies of Cognition in Epilepsy Patients.

Systems: Natus, Neuralynx, BCI2000.

2020 – 2022 MATLAB Student Ambassador, MathWorks, University of California, Davis.

### **Education**

2023 – 2028 expected Ph.D., University of Pennsylvania, Bioengineering.

Neuroengineering: Motor decoding, programming and control

Bijan Pesaran Lab

2018 – 2022 **B.S. Biomedical Engineering, Computer Science Minor,** 

University of California, Davis.

Engineering GPA: 3.76

#### **Research Publications**

### **Journal Articles**

Y. Sun *et al.*, "Electric field–guided collective motility initiation of large epidermal cell groups," *Molecular Biology of the Cell*, vol. 34, no. 5, 2023. ODI: 10.1091/mbc.e22-09-0391.

### Skills

Languages Strong reading, writing and speaking competencies for English, Spanish.

Coding Python, MATLAB, LATEX

Web Dev HTML, css, JavaScript

Misc. Academic research, seminars, time series analysis.

# Miscellaneous Experience

### **Awards and Achievements**

**GEM Associate Fellow**, University of Pennsylvania.

Hispanic Scholar Designation, Hispanic Scholarship Fund.

# Miscellaneous Experience (continued)

**Outstanding Senior Design Award**, Department of Biomedical Engineering, College of Engineering, UC Davis.

Prosthetic Design Showcase, AdTech Club @ UC Davis, CAD Design.

## Memberships

2021 – 2022 NeuroVA. Senior Design, Full Stack Developer.

2020 – 2022 **Biomedical Engineering Society**. Member.

## References

Available on Request