

# JENNIFER STISO

Data Scientist ◇ jeni.stiso@gmail.com

jenniferstiso.com ◇ github.com/jastiso

## PUBLICATIONS AND PROJECTS

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### Network Control Models for Understanding Neural Therapeutics (MATLAB, R, Python)

- The effects and mechanisms of many neural stimulation therapies remain poorly understood.
- I used tools from graph theory, network control theory, and data science to design and implement two projects to address these gaps.
- **Stiso, J.**, ... and Bassett, D. S. (2020). Learning in brain-computer interface control evidenced by joint decomposition of brain and behavior. *Journal of Neural Engineering*. doi:10.1088/1741-2552/ab9064.
- **Stiso, J.**, ... and Bassett, D. S. (2019). White Matter Network Architecture Guides Direct Electrical Stimulation Through Optimal State Transitions. *Cell Reports*. 28(2554 - 2566).

### Tools for Combating Citation Bias (JavaScript, HTML, Python)

- These tools aim to help researchers mitigate gender-biased citation practices.
- I designed and implemented a Google Chrome Extension to display the gender of first and last authors of papers appearing on the results page of a PubMed or Google Scholar Search.
- I added automated name matching from paper titles to the Gender Diversity Statement and Code Notebook, which displays the proportion of citations for each gender in a bibtex file. I also led and organized contributions to this project at a hackathon.

### Python Data Science Bootcamp

- The summer Python Data Science Bootcamp prepared graduate students with some programming experience for more extensive use of Python in their work.
- I designed and gave one 3 hour lecture on the Pandas package, and one 1 hour lecture on machine learning with the SciKit Learn package. I also helped students with bugs and projects for the full 7 days of the bootcamp.

## EXPERIENCE

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**PhD Candidate**, University of Pennsylvania - Complex Systems Group

*Aug 2017*

**Intern**, Johns Hopkins Applied Physics Lab - Intelligent Systems Group

*July 2020 - Oct 2020*

## EDUCATION

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**University of Pennsylvania** - PhD in Neuroscience

*Aug 2021*

**University of California Berkeley** - BA in Molecular Biology & Cognitive Science

*Aug 2016*

## SKILLS

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### Programming Languages and Frameworks

Python, R, MATLAB, JavaScript, HTML, Java, Latex

### People skills

Communication and presentation, time management, organization, leadership

## AWARDS

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**Ruth L. Kirschstein National Research Service Award**, University of Pennsylvania  
national level PhD funding

*2020*

**Jameson Hurvich Travel Award**, University of Pennsylvania  
travel award to present research at international conference

*2019*