Laura Gunsalus

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Training and Education

2018 - **University of California, San Francisco**
Graduate Program in Biological and Medical Informatics

2013 - 17 **Carnegie Mellon University**
Bachelor of Science in Neuroscience, Minor in Computer Science

Awards and Fellowships

2020 NSF Graduate Research Fellowship Program Honorable Mention

Teaching

2020 Algorithms, Graduate Teaching Assistant, UCSF
2019 AI4All Volunteer Course Instructor, UCSF

Publications

1. Chuang, Kangway V., Laura Gunsalus, and Michael J. Keiser. 2020. "Learning Molecular Representations for Medicinal Chemistry." *Journal of Medicinal Chemistry*, May. https://doi.org/10.1021/acs.jmedchem.0c00385.
2. Newberry, Robert W., Taylor Arhar, Jean Costello, George C. Hartoularos, Alison M. Maxwell, Zun Zar Chi Naing, Maureen Pittman, et al. 2020. "Robust Sequence Determinants of α-Synuclein Toxicity in Yeast Implicate Membrane Binding." *bioRxiv*. https://doi.org/10.1101/2020.05.01.072884.
3. Ramamurthy, Easwaran, Gwyneth Welch, Jemmie Cheng, Yixin Yuan, Laura Gunsalus, David A. Bennett, Li-Huei Tsai, and Andreas Pfenning. 2020. "Cell Type-Specific Histone Acetylation Profiling of Alzheimer's Disease Subjects and Integration with Genetics." *bioRxiv*. https://doi.org/10.1101/2020.03.26.010330.

Research Experience

2019 - **Keiser and Pollard Labs, University of California, San Francisco**
Graduate Student. Focus on building interpretable deep learning models of gene regulation.

2017 - 18 **Syros Pharmaceuticals, Cambridge, Massachusetts**
Computational Biology Research Associate. Analyzed high throughput sequencing assays to understand the impact of treatment on epigenetic markers and gene regulation.

2016 - 17 **Pfenning Lab, Carnegie Mellon University**
Undergraduate Research. Developed a computational pipeline to identify cell-type specific regulatory regions enriched for disease associated variants.

Community Service

2019 - Letters to a Pre-scientist, Scientist Penpal
2019 Lowell High School Science Outreach Instructor
2019 iPQB Bioinformatics and Statistics Bootcamp Instructor
2015 - 16 IMPULSE Undergraduate Neuroscience Journal, Associate Editor
2014 - 16 Neuroscience Student Advisory Council, Science Outreach