

Sabine Chavin, Associate

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PROFESSIONAL EXPERIENCE

Synapse Energy Economics Inc., Cambridge, MA. *Associate*, July 2022 – Present

- Consults on energy-sector issues, including integrated resource planning, grid modernization, and energy storage.

Kleinman Center for Energy Policy, University of Pennsylvania. *Student Fellow*, January – May 2022

- Attended energy and climate policy seminars on a range of topics including the geopolitics of rare earth materials, adaptive architectural design and geoengineering.
- Researched and authored a blog post on microgrid tariff regulations

Neuroscience Lab, University of Pennsylvania. *MindCORE Fellow in Balasubramanian Lab*, Summer 2021

- Designed and coded in Python a model of spatial navigation to better understand biological neural navigation processes
- Studied analytical techniques for interpreting our computational results

Cryo-electron Tomography Lab, University of Pennsylvania. *Research Assistant in Chang Lab*, Summer 2020

- Generated and analyzed tomograms (3D representations) of parasites from 2D electron microscope data
- Authored literature review on the lifecycle of *Plasmodium falciparum* (malaria parasite)
- Explored useful machine-learning approaches to classifying proteins for the group to use going forwards

EDUCATION

University of Pennsylvania, Philadelphia, PA

Bachelor of Arts in Physics: Concentration in Computer Techniques. 2022

Master of Science in Physics. 2022

SKILLS

Python, OCaml, MATLAB, Java, Microsoft Office Suite

Resume updated July 2022