Timothy H. Kostolansky

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Education

Massachusetts Institute of Technology	Cambridge, MA
Master of Engineering in Computer Science and Engineering	May 2024
Bachelor of Science in Computer Science and Engineering	May 2023
Bachelor of Science in Physics	May 2023

Relevant Coursework: Machine Learning, Deep Learning, Reinforcement Learning, Statistical Inference, Natural Language Processing, Algorithms, Robotics (Manipulation, Task and Motion Planning), Quantum Physics, Relativity, Statistical Physics

Work and Research Experience

MIT CSAIL, Algorithmic Alignment Group

July 2023 – Present

Graduate researcher for AI alignment lab led by Dylan Hadfield-Menell

- Developing and testing methods to extract the rules governing preference datasets
- In progress

MIT Picower Institute for Learning and Memory, Bear Lab

September 2022 – April 2023

Undergraduate researcher for lab led by Mark Bear that develops novel treatments for brain disease

• Developing and testing convolutional neural network architecture with self-connectivity, mimicking the behavior of cell-to-cell connection that is present in the physical structures of the brain

Second Spectrum Incorporated

June - August 2022

Software engineer for a sports data company that uses computer vision to track athletes in game film

- Upgraded and refactored video data pipelines from professional sports streams to the company's S3 servers
- Used Temporal.io to protect from failure over long-running protocols

MIT Laser Interferometer Gravitational Wave Observatory (LIGO)

February 2021 -August 2021

- · Updated prototype designs for the Fast Shutter System (protects high-sensitivity measuring equipment)
- Use of numerical physics simulation with Mathematica and hands-on work with designing and building shutter prototype

Activities and Leadership Experience

MIT Science Policy Review

April 2021 – September 2023

Technology director for a policy journal that publishes science policy reviews authored by members of the MIT community

• Maintaining and updating the Review's website, uploading articles and covers

MIT Varsity Basketball

September 2019 – March 2022

NCAA Division III athlete, competed with full course load, two-time NEWMAC Academic All-Conference selection

Japanese National Basketball Team

June 2019 – August 2019

- Selected for National Team and trained at Ajinomoto National Training Center in Tokyo
- Competed in the 2019 William Jones Cup in Taiwan, earned bronze medal

Skills

Programming: Python 3, PyTorch, ROS, Julia, MATLAB, Mathematica, TypeScript

Language: English, Japanese (proficient), Italian (learner)
Interests: chess, meditation, basketball, ortholinear keyboards