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, Statistical Inference, Natural L Robotics (Manipulation, Task and Motion Planning), Quantum Physics, Relativity, Statistic	
Work and Research Experience	
MIT CSAIL, Algorithmic Alignment Group	July 2023 – Present
Graduate researcher for lab led by Dylan Hadfield-Menell that researches methods to align	
☐ Testing machine learning and task-and-motion-planning (TAMP) methods on robotic call.	ars on various tasks to show usability
of show paradigms in general learning systems	
☐ Learning implemented using PyTorch and OpenTAMP	
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 bra	
Developing and testing of convolutional neural network architecture with self-connective	vity, mimicking the behavior of cell-
to-cell connection that is present in the physical structures of the brain	
□ Neural network implemented in PyTorch	
Second Spectrum Incorporated	June – August 2022
Software engineer for sports data company that uses computer vision to track athletes in go	
☐ Upgraded and refactored video data pipelines from professional sports streams to comp	any's S3 servers
☐ Used Temporal.io to protect from failure over long-running video protocols	
MIT Laser Interferometer Gravitational Wave Observatory (LIGO)	February 2021 –August 2021
☐ Updated prototype designs for the Fast Shutter System (protects high-sensitivity measurements)	
☐ Use of numerical physics simulation with Mathematica and hands-on work with design	ing and building shutter prototype
Activities and Leadership Experience	
MIT Science Policy Review	April 2021 – September 2023
Technology director for policy journal that publishes science policy reviews authored by m	embers of the MIT community
☐ Maintaining and updating 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	c All-Conference selection
Japanese National Basketball Team	June 2019 – August 2019
Selected for National Team and trained at Ajinomoto National Training Center in Toky	
☐ Competed in 2019 William Jones Cup in Taiwan, team earned bronze medal	
Skills	
Programming: Python 3, PyTorch, ROS, Julia, MATLAB, Mathematica, TypeScript	
Language: English, Japanese (proficient), Italian (learner)	

Interests: chess, tennis, basketball, ortholinear keyboards, meditation