Max Langenkamp

310-614-1991 | maxnz@mit.edu | linkedin | github.com/yichabod

Education

Massachusetts Institute of Technology — Cambridge, MA
BSc, MEng in Computer Science, Concentration in Artificial Intelligence (GPA: 4.8/5.0) — *June 2022*

Experience

MIT Algorithmic Alignment Lab — September 2021 – August 2022
Graduate Researcher — *Cambridge, M.A.*

- Studying the effects of open source software on AI research and development.

In-Q-Tel — May 2021 – August 2021
Program Manager — *Remote*

- Worked in coordination with members of the USIC to create an impact evaluation framework.

Center for Security and Emerging Technology — June 2020 – December 2020
Semester Data Research Analyst — *Washington, D.C.*

- Designed and implemented a natural language processing pipeline to recognize tasks and methods from all 2015-2020 computer vision papers. Authored publication on trends in visual population surveillance.

White House Office of Science and Technology Policy — January 2020 – February 2020
Policy Intern — *Washington, D.C.*

- Developed proposal for 5G Researched 5G innovation initiatives, met with company representatives, and developed a proposal for 5G legislation under Assistant Director Eric Burger.

MIT Computational Cognitive Science Group — September 2019 – Present
Undergraduate Researcher — *Cambridge, MA*

- Modeled human decision making using reinforcement learning under Fiery Cushman and Josh Tenenbaum.
- Created grid environment, implemented Monte-Carlo and CNN architectures, and tested human subjects.

University of Sannio — January 2019 – February 2019
Visiting Researcher — *Benevento, Italy*

- Led a team of 3 PhD students in the design of a landslide detection model using satellite imagery and convolutional neural networks. Presented to European Space Agency's Phi Lab and published a paper in IGARSS 2019.

Locus Analytics — June 2019 – September 2019
Data Science Intern — *New York City, NY*

- Led 5 interns to build PyPi package to assist in policy recommendations to be presented to the National Institute of Statistics of Rwanda.

Cerebras Systems — June 2018 – September 2018
Machine Learning Intern — *Los Altos, CA*

- Implemented character-RNN using Tensorflow's custom estimator to test compatibility with machine learning hardware system.

Publications

Max Langenkamp, Daniel Yue. *How Open Source Machine Learning Shapes AI* Artificial Intelligence Ethics and Society, 2022

Alice Zhang, **Max Langenkamp**, Max Kleiman-Weiner, Tuomas Oikarinen, Fiery Cushman. *Shared susceptibility to cognitive puzzles in human and machine planning* Proceedings of the National Academy of Sciences (submitted), 2023

Max Langenkamp, Melissa Flagg. *AI Hubs: Europe and CANZUK* Center for Security and Emerging Technology

Ashwin Acharya, **Max Langenkamp**, James Dunham. *Trends in AI Research for the Visual Surveillance of Populations* Center for Security and Emerging Technology

Silvia Ullo, **Max Langenkamp**, Tuomas Oikarinen et al. *Landslide Geohazard Assessment with Convolutional Neural Networks Using Sentinel-2 Imagery Data* IEEE International Geoscience and Remote Sensing Symposium, 2019

Max Langenkamp, Allan Costa, Chris Cheung. *Hiring Fairly in the Age of Algorithms* Arxiv preprint 2020, arXiv:2004.07132

Honors and Awards

MIT Burchard Scholar One of 38 humanities scholars selected for excellence in the humanities 2020
HKN Engineering Honors Society Academic performance in the top third of the class 2020
MIT Arts Scholar 2018
International Biology Olympiad Bronze Medal One of four selected to represent New Zealand 2016

Activities

MIT Science Policy Initiative | *ExVD Director* June 2020 – Present

- Organized, moderated, and lead 35 MIT undergraduate, graduate, and post-doctoral students in a virtual week-long conference with over 15 government executives

MIT Buddhist Students Club | *President* September 2019 – Present

- Grew club from 3 members to 20. Host weekly gatherings with meditations and discussions.

Skills

Programming: Python, Java, C/C++, GraphQL, Stata. Pandas, NumPy, Pytorch.
Languages: Proficient in spoken and written Chinese. Beginner Japanese. Intermediate Latin.