

# ANNIE FENG

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## EDUCATION

### Massachusetts Institute of Technology

*Master's of Engineering in Electrical Engineering and Computer Science*

*Sep 2023-  
(Expected Feb 2025)*

*Bachelor of Science in Electrical Engineering and Computer Science*

GPA: 5.0/5.0

*Sep 2019 – May 2023*

## INDUSTRY EXPERIENCE

### Nvidia

*AI Software Intern, DriveIX*

- Working on data collection and data processing pipelines for interior sensing and perception.

*Jun 2024-  
Santa Clara*

### Nvidia

*AI Software Intern, DriveIX*

- Worked on C++ production code for calibration and data pipeline for gaze prediction.

*Jun 2023 – Sep 2023  
Santa Clara*

### Nvidia

*AI Software Intern, DriveIX*

- Worked on 3D Reconstruction and Region Mapping, laser robot for data collection, and automating the data pipeline.

*Jun 2022 – Sep 2022  
Remote*

## PUBLICATIONS

### Mobile Robotic Platform for Contactless Vital Sign Monitoring

Henwei Huang, Jack Chen, PR Chai, Claas Ehmke, Philip Rupp, FZ Dadabhoy, **Annie Feng**, et. al.

In *Cyborg and Bionic Systems*, 2022.

### Assessment of the Acceptability and Feasibility of Using Mobile Robotic Systems for Patient Evaluation

PR Chai, FZ Dadabhoy, HW Huang, JN Chu, **A Feng**, et. al.

In *JAMA Network Open*, 2021.

### Personalized Radiation Attenuating Materials for Gastrointestinal Mucosal Protection

James D. Byrne, Cameron C. Young, Jacqueline N. Chu, Jennifer Pursley, Mu Xian Chen, Adam J. Wentworth, **Annie Feng**, et. al.

In *Advanced Science*, 2021.

## RESEARCH EXPERIENCE

### Learning and Intelligent Systems @ MIT

- Advised by Tomas Lozano-Perez.

- I'm leveraging large language models' commonsense reasoning for exploration in reinforcement learning.

*Sep 2023-*

### Clinical Decision-Making Group @ MIT

- Advised by Dr. Amar Gupta.

- I worked on a classifier model for electronics shipping documents in PyTorch.

*Jan 2023 – May 2023*

### Little Devices Lab @ MIT

*May 2021- Aug 2021*

- Advised by Jose Marquez-Gomez.
- I did full-stack development of a swarm robotics system, with C++, Python, CAD, soldering, and oscilloscope. I led bring-up of new features using a website to control action sequences.

### **Langer Lab (Traverso Group) @ MIT**

*2<sup>nd</sup> Project: Vital signs monitoring on mobile robotics platform*

*May 2020 - Sep 2020*

- Advised by Dr. Henwei Huang and Claas Ehmke.
- I programmed the robot with ROS and worked on a computer vision algorithm that predicts heart rate and oxygen saturation. Resulted in publication.

*Jan 2020 – Feb 2020*

*1<sup>st</sup> Project: Cost-effectiveness Markov Cohort Model*

- Advised by Dr. Jacqueline Chu.
- I developed cost-effectiveness model and analysis of a new medical device, and shadowed in the Mass General gastroenterology department. Resulted in publication.

### **SELECTED COURSEWORK**

**Artificial Intelligence** Computer Vision (6.819); Advanced Natural Language Processing (6.806); Planning Under Uncertainty (16.420); Computational Sensorimotor Learning (6.8200); Intro to Machine Learning (6.036)

**Statistics** Inference and Information (6.437); Fundamentals of Statistics (18.650)

**Programming** Elements of Software Construction (6.031); Fundamentals of Programming (6.009)

**Theoretical Computer Science** Design and Analysis of Algorithms (6.046); Mathematics for Computer Science (6.042)

**Electrical Engineering** Circuits and Electronics (6.002); Signal Processing (6.003); Computation Structures (architecture) (6.004)

**Mathematics** Linear Algebra (18.06); Differential Equations (18.03); Calculus (18.01, 18.02: A+, A+), Probability (6.041)

**Physics** Classical Mechanics (8.01, A+); Electricity & Magnetism (8.02, A+)

### **AWARDS & HONORS**

**Tau Beta Pi Honor Society**

*2022*

**Eta Kappa Nu Honor Society**

*2022*

**MIT Emerson/Harris Piano Scholarship**

*2019*

### **TEACHING & SERVICE**

**Teaching Assistant**

*Fall 2023*

Graduate TA for AI Representation, Reasoning, & Inference (6.4110)

**HKN Tutor**

*Spring & Fall 2022*

Tutored MIT students in Design and Analysis of Algorithms (6.046) and Intro to Algorithms (6.006).

### **SKILLS**

**Languages** English (native U.S. citizen, fluent); Mandarin Chinese (limited)

**Programming** *Proficient* in Python (5+ years), *Experienced* in C++, Typescript (2+ years)

**Keywords** Software Engineering, Machine Learning, Data Pipelines, Robotics, Python, C++