# 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* — *Sep 2019 – May 2023*
GPA: 5.0/5.0

## INDUSTRY EXPERIENCE

**Nvidia** — *Jun 2024-*
*AI Software Intern, DriveIX* — Santa Clara

**Nvidia** — *Jun 2023 – Sep 2023*
*AI Software Intern, DriveIX* — Santa Clara
- Worked on C++ production code for calibration and data pipeline for gaze prediction.

**Nvidia**
*AI Software Intern, DriveIX* — *Jun 2022 – Sep 2022* — Remote
- Worked on 3D Reconstruction and Region Mapping, laser robot, and data pipeline.

## 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** — *Sep 2023-*
- Advised by Tomas Lozano-Perez.
- I'm leveraging large language models' commonsense reasoning for exploration in reinforcement learning.

**Clinical Decision-Making Group @ MIT** — *Jan 2023 – May 2023*
- Advised by Dr. Amar Gupta.
- I worked on a classifier model for electronics shipping documents.

**Little Devices Lab @ MIT** — *May 2021- Aug 2021*
- Advised by Jose Marquez-Gomez.

- I worked on full-stack development of a swarm robotics system.

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

*2nd Project: Vital signs monitoring on mobile robotics platform* *May 2020 - Sep 2020*
- Advised by Dr. Henwei Huang and Claas Ehmke.
- I programmed and analyzed experiments of a computer vision algorithm that predicts heart rate and oxygen saturation. Resulted in publication.

*Jan 2020 – Feb 2020*

*1st 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++