

Jingxi Chen

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EDUCATION	University of Maryland , College Park, MD, USA <i>Ph.D.</i> in Computer Science <i>B.S & M.S.</i> in Computer Science	Fall 2022 - Fall 2017 - Spring 2022
HONORS	1) Dean's Fellowship for PhD students 2) John D. Gannon Endowed Scholarship 3) Capital One Bank Dean's Scholarship Fund in Computer Science	
TECHNICAL SKILLS	Programming Languages: Python, Java, C, C++, MATLAB, Ruby Library/Software: ROS, PyTorch, OpenCV, Matplotlib, Docker, GIT, L ^A T _E X Skills: Learning/Physics-based Vision (Computer Vision & Computational Imaging), Neuromorphic Vision, Reinforcement Learning, Mobile Robotics.	
RESEARCH PUBLICATIONS	Multi-Agent Reinforcement Learning for Visibility-based Persistent Monitoring 2021 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) Jingxi Chen , Amrish Baskaran, Zhongshun Zhang, and Pratap Tokekar	
WORKING EXPERIENCE	Robotics Software Engineer Brain Corp, San Diego, CA Working in the projects for real-world robotic applications, for robots deployed in Walmart and Sam's Club. <ul style="list-style-type: none">Working in the Shelf-Scanning team on mobile-robot information sensing tasks for real-world retail store environmentsDebugging and testing the Navigation Stack of mobile robots (Perception, SLAM, Motion Planning)	Jun. 2021 - Aug. 2021
	Teaching Assistant University of Maryland, Department of Computer Science The responsibilities include holding office hours and developing course projects, homework, exams. <ul style="list-style-type: none">CMSC421: Introduction to Artificial IntelligenceCMSC420: Advanced Data StructuresCMSC250: Discrete StructuresCMSC132: Object-Oriented Programming II	Aug. 2018 - Sep. 2021 Spring 2021 Spring/Fall 2020 Fall 2018/19 Spring 2019
SELECTED PROJECTS	* Please see the projects page on my personal website for a complete list and more details: https://codingrex.github.io/projects/ Event-based Human Detection: A project on human detection in low-light and high-speed scenarios with event-based camera. <ul style="list-style-type: none">Demo video: https://www.youtube.com/watch?v=RIInzuru4kLc Long-term Autonomy of Mobile Robots: A project on exploring and solving research problems involved in the long-term autonomy for mobile robots in environments that are not designed to be robot-friendly. <ul style="list-style-type: none">Github page: https://github.com/codingrex/Long-Term-Autonomy Task-based Deep Optics: Evolving Robotic Eye Design: An ongoing research project using the framework of Deep Optics to optimize the physical design of the optics (eye) for mobile robots (drones, ground robots) based on a specific task (like navigation).	