


Jingxi Chen

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Education

- The University of Maryland - College Park
Ph.D. Student in Computer Science Department
- The University of Maryland - College Park
B.S. & M.S. in Computer Science

Maryland, USA
Fall 2022 - 2026 (Expected)

Maryland, USA
Fall 2017 - Spring 2022

Research Interest

- Computer Vision, Generative Modeling, 3D Vision, Robotics, Computational Imaging

Publications

- [1] **Jingxi Chen**, Botao He, Chahat Deep Singh, Cornelia Fermuller, Yiannis Aloimonos, “Active Human Pose Estimation via an Autonomous UAV Agent”, Accepted by **IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)**, 2024.
- [2] Sachin Shah, Matthew Chan, Haoming Cai, **Jingxi Chen**, Sakshum Kulshrestha, Chahat Deep Singh, Yiannis Aloimonos, Christopher Metzler, “CodedEvents: Optimal Point-Spread-Function Engineering for 3D-Tracking with Event Cameras”, Published in **Conference on Computer Vision and Pattern Recognition (CVPR)**, 2024. [[PDF](#)]
- [3] Botao He, Ze Wang, Yuan Zhou, **Jingxi Chen**, Chahat Deep Singh, Cornelia Fermuller, Yiannis Aloimonos, Chao Xu and Fei Gao, “Microsaccade-inspired Event Camera for Robotics”, Published in **Science Robotics**, 2024 [[PDF](#)]
- [4] Manav Mishra, Prithvi Poddar, Rajat Agrawal, **Jingxi Chen**, Pratap Tokekar and P. B. Sujit, “Multi-Agent Deep Reinforcement Learning for Persistent Monitoring With Sensing, Communication, and Localization Constraints”, Published in **IEEE Transactions on Automation Science and Engineering**, 2024. [[PDF](#)]
- [5] Vishnu Dutt Sharma, **Jingxi Chen**, Pratap Tokekar, “ProxMaP: Proximal Occupancy Map Prediction for Efficient Indoor Robot Navigation”, Published in **IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)**, 2023. [[PDF](#), [Project](#)]
- [6] **Jingxi Chen***, Amrith Baskaran*, Zhongshun Zhang, and Pratap Tokekar, “Multi-Agent Reinforcement Learning for Visibility-based Persistent Monitoring”, Published in **IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)**, 2021. [[PDF](#)]

Manuscripts

- [7] **Jingxi Chen**, Brandon Y. Feng, Haoming Cai, Mingyang Xie, Christopher Metzler, Cornelia Fermüller, Yiannis Aloimonos, “TimeRewind: Rewinding Time with Image-and-Events Video Diffusion”, **Under Review**, 2024. [[PDF](#), [Project](#)]
- [8] Haoming Cai*, **Jingxi Chen***, Brandon Y. Feng, Weiyun Jiang, Mingyang Xie, Kevin Zhang, Ashok Veeraraghavan, Christopher Metzler, “ConVRT: Consistent Video Restoration Through Turbulence with Test-time Optimization of Neural Video Representations”, **Under Review**, 2024. [[PDF](#), [Project](#)]

Research Service & Awards

- **Ph.D. Dean Fellowship*** - University of Maryland-College Park 2022 - 2023
- **John D. Gannon Endowed Scholarship ***
- **Capital One Bank Dean’s Scholarship Fund in Computer Science ***
- **Conference Reviewer** - ICRA 2021 & 2023 & 2024, IROS 2021 & 2022 & 2024
- **Journal Reviewer** - IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)

Working Experience

Dolby Laboratories, Inc.

PhD Research Intern

Sunnyvale, CA

Summer 2024

- ◆ With two patents submitted on Neural Event Data Compression and a novel Neural Video Codec.

Brain Corp

Robotics Software Engineer

San Diego, CA

Jun. 2021 - Aug. 2021

- ◆ Working in the projects for real-world robotic applications, for robots deployed in Walmart and Sam’s Club.
- ◆ Working in the Shelf-Scanning team on mobile-robot information sensing tasks for real-world retail store environments
- ◆ Debugging and testing the Navigation Stack of mobile robots (Perception, SLAM, Motion Planning)