


Jingxi Chen

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Education

- **The University of Maryland - College Park** Maryland, USA
Ph.D. Student in Computer Science Department Fall 2022 - 2026 (Expected)
- **The University of Maryland - College Park** Maryland, USA
B.S. & M.S. in Computer Science Fall 2017 - Spring 2022

Research Interest

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

Publications

- [1] **Jingxi Chen**, Brandon Y. Feng, Haoming Cai, Tianfu Wang, Levi Burner, Dehao Yuan, Cornelia Fermüller, Christopher A. Metzler, Yiannis Aloimonos, “Repurposing Pre-trained Video Diffusion Models for Event-based Video Interpolation”, **Under Review, 2024.** [[Project](#), [PDF](#)]
- [2] Haoming Cai*, **Jingxi Chen***, Brandon Y. Feng, Weiyun Jiang, Mingyang Xie, Kevin Zhang, Cornelia Fermüller, Yiannis Aloimonos, Ashok Veeraraghavan, Christopher Metzler, “Temporally Consistent Atmospheric Turbulence Mitigation with Neural Representations”, Accepted by **The Thirty-Eighth Annual Conference on Neural Information Processing Systems (NeurIPS), 2024.** [[Project](#), [PDF](#)]
- [3] **Jingxi Chen**, Botao He, Chahat Deep Singh, Cornelia Fermüller, Yiannis Aloimonos, “Active Human Pose Estimation via an Autonomous UAV Agent”, Accepted by **IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2024.** [[PDF](#), [Project](#)]
- [4] 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](#)]
- [5] Botao He, Ze Wang, Yuan Zhou, **Jingxi Chen**, Chahat Deep Singh, Cornelia Fermüller, Yiannis Aloimonos, Chao Xu and Fei Gao, “Microsaccade-inspired Event Camera for Robotics”, Published in **Science Robotics, 2024** [[PDF](#), [Project](#)]
- [6] 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](#)]
- [7] 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](#)]
- [8] **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](#)]

Research Service & Awards

- **NeuroPAC Fellowship*** - Supported by the NSF grant “AccelNet: Accelerating Research on Neuromorphic Perception, Action, and Cognition.” 2024
- **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)