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🏠 www.harrychi.com | 🌐 [boynextdoor-cze](https://boynextdoor-cze.github.io) | 🌐 [Zeen \(Harry\) Chi](https://www.linkedin.com/in/zeen-harry-chi)

EDUCATION

- **Carnegie Mellon University** Pittsburg, PA
M.S. Candidate in Computer Vision Aug. 2024 - Dec. 2025 (Expected)
- **ShanghaiTech University** Shanghai, China
B.E. in Computer Science Sep. 2020 - Jul. 2024
 - GPA: **3.97/4.0** (rank **1/248** in school)
 - Major GPA: **4.0/4.0**
- **Massachusetts Institute of Technology (MIT)** Cambridge, MA
Undergraduate Exchange Student, Computer Science Feb. 2023 - May 2023
 - GPA: **5.0/5.0**

SKILLS

- **Languages:** Python, C, C++, PowerShell, MATLAB, RISC-V, YAML
- **Tools/Frameworks:** PyTorch, Azure, Azure ML, Azure DevOps, OpenGL, PowerShell, React.js, Git, ITK-SNAP

EXPERIENCE

- **Microsoft** Suzhou, China
Software Engineer Intern May 2024 - Present
 - Working in the Windows 365 (Cloud PC) group, being responsible for the development of Machine Learning Automation System (MAS)
 - Constructing CI/CD Azure pipelines for the automatic deployment of server data ingestion functions
 - Implementing machine learning algorithms with Azure Machine Learning (AML) to construct service-to-service scalability analysis and prediction
- **ShanghaiTech, Perception Learning and UnderStanding (PLUS) Lab** Shanghai, China
Research Assistant, advised by Prof. Xuming He Aug. 2023 - Mar. 2024
 - Proposed a novel incremental learning setting for human-object interaction detection with joint concentrations on catastrophic forgetting, interaction drift, and zero-shot HOI detection
 - Proposed an incremental relation distillation framework to resolve the aforementioned challenges via disentangling the learning of objects and relations, focusing on robust and invariant relation representation learning
 - Outperformed state-of-the-art continual learning and zero-shot baselines with more than 2% improvement in mean Average Precision (mAP) on mainstream HOI datasets
- **MIT CSAIL, Medical Vision Group** Cambridge, MA
Research Assistant, advised by Prof. Polina Golland and Dr. Neel Dey Mar. 2023 - Aug. 2023
 - Proposed to frame subject-specific atlas building as learning a neural field of deformable spatiotemporal observations
 - Applied the proposed method to create subject-specific atlases and motion stabilization of dynamic BOLD MRI time-series of fetuses *in utero*
 - Constructed high-quality atlases with competitive registration performance and $\sim 5-7\times$ faster training compared to conventional and deep learning-based baselines

ENGINEERING PROJECTS

- **OpenSIST: Graduate Application Information-Sharing Platform** [[code](#)][[website](#)] Dec. 2023 - Mar. 2024
A Commonweal Project for ShanghaiTech Students
 - Established an open-source information-sharing platform for ShanghaiTech students, aiming to address the historical lack of overseas graduate application data
 - Collected product requirements from both graduated and current students through a survey and designed platform features for displaying and editing applicant information, application records, and graduate programs
 - Designed login verification based on HTTPS protocol for ShanghaiTech edu email to ensure internal visibility only
 - Wrote more than 6500 lines of JSX frontend code using the React.js framework and Material-UI component library
 - Covered 1000+ alumni and current students and benefited 200+ overseas applicants every year

PUBLICATIONS

(* indicates equal contribution)

- **Incremental Human-Object Interaction Detection with Invariant Relation Representation Learning**
Yana Wei*, **Zeen Chi***, Chongyu Wang, Yu Wu, Shipeng Yan, Yongfei Liu, Xuming He
Under Review [[paper](#)]
- **Dynamic Neural Fields for Learning Atlases of 4D Fetal MRI Time-series**
Zeen Chi*, Zhongxiao Cong*, Clinton J. Wang, Yingcheng Liu, Esra Abaci Turk, P. Ellen Grant, S. Mazdak Abulnaga, Polina Golland, Neel Dey
Accepted by Medical Imaging Meets NeurIPS Workshop 2023 [[paper](#)][[code](#)][[poster](#)]