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Research Interests	I am broadly interested in computer vision, machine learning, topological data analysis, uncertainty estimation, and diffusion model, focusing on using uncertainty-driven ideas to deal with computer vision/machine learning problems.
Education	• Stony Brook University, Department of Biomedical Informatics, USA Ph.D. Candidate, Jan. 2020 - Now
	• Stony Brook University, Department of Applied Mathematics & Statistics, USA Master of Science, Sep. 2018 - Jul. 2020
	• Jilin University, School of Mathematics, China Bachelor of Science, Sep. 2014 - Jul. 2018
Publications	 (* indicates equal contribution) [1] Spatial Diffusion for Cell Layout Generation Chen Li, Xiaoling Hu, Shahira Abousamra, Meilong Xu, Chao Chen International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI), 2024 [2] Calibrating Uncertainty for Semi-Supervised Crowd Counting Chen Li, Xiaoling Hu, Shahira Abousamra, Chao Chen International Conference on Computer Vision (ICCV), 2023 [3] Confidence Estimation Using Unlabeled Data. Chen Li, Xiaoling Hu, Chao Chen International Conference on Learning Representations (ICLR), 2023 [4] Spatial Transcriptomic Analysis Reveals Associations between Genes and Cellular Topology in Breast and Prostate Cancers. Lujain Alsaleh, Chen Li, Justin L. Couetil, Ze Ye, Kun Huang, Jie Zhang, Chao Chen, Travis S. Johnson Cancers 2022
Selected Honors and Awards	 Third Class Academic Scholarship, Jilin University, 2016 (20%) Second Class Academic Scholarship, Jilin University, 2015 (15%)
Experiences	Stony Brook University, Department of BMI, USA Research Assistant Advisor: Prof. Chao ChenSep. 2020 - Present• Uncertainty estimation • Semi-supervised learning • Crowd counting • Diffusion modelSep. 2020 - Present

Jun. 2024 - Sep. 2024

United Imaging Intelligence America

Research Intern

Advisor: Dr.Xiao Chen

- Cross-domain conditional generation
- Diffusion model
- Cardiac magnetic resonance imaging

Project: Pseudo-labeling driven cross-domain CMR image generation using conditional diffusion model.

- Skills
- Languages: C, Matlab, Python
- \bullet $\mathbf{OS}:$ Linux, Windows
- Tools: Torch, PyTorch, OpenCV, matplotlib