

Chen Li

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Research Interests	I am broadly interested in computer vision, machine learning, topological data analysis, and uncertainty estimation, focusing on using uncertainty-driven ideas to deal with computer vision/machine learning problems.	
Education	<ul style="list-style-type: none">• Stony Brook University, Department of Biomedical Informatics, USA <i>Ph.D. Candidate, Jan. 2020 - Now</i>• Stony Brook University, Department of Applied Mathematics & Statistics, USA <i>Master of Science , Sep. 2018 - Jul. 2020</i>• Jilin University, School of Mathematics, China <i>Bachelor of Science, Sep. 2014 - Jul. 2018</i>	
Publications	(* indicates equal contribution) [1] Spatial Diffusion for Cell Layout Generation Chen Li , Xiaoling Hu, Shahira Abousamra, Meilong Xu, Chao Chen <i>International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI)</i> , 2024 [2] Calibrating Uncertainty for Semi-Supervised Crowd Counting Chen Li , Xiaoling Hu, Shahira Abousamra, Chao Chen <i>International Conference on Computer Vision (ICCV)</i> , 2023 [3] Confidence Estimation Using Unlabeled Data. Chen Li , Xiaoling Hu, Chao Chen <i>International Conference on Learning Representations (ICLR)</i> , 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 <i>Cancers</i> , 2022	
Selected Honors and Awards	<ul style="list-style-type: none">• Third Class Academic Scholarship, Jilin University, 2016 (20%)• Second Class Academic Scholarship, Jilin University, 2015 (15%)	
Experiences	Stony Brook University, Department of BMI, USA <i>Research Assistant</i> Advisor: <i>Prof.</i> Chao Chen <ul style="list-style-type: none">• Uncertainty estimation• Semi-supervised learning• Crowd counting• Diffusion model	Sep. 2020 - Present

United Imaging Intelligence America
Research Intern

Jun. 2020 - Sep. 2020

Advisor: *Dr.* Chen Xiao

- 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
- **OS:** Linux, Windows
- **Tools:** Torch, PyTorch, OpenCV, matplotlib