

## Chen Li

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<b>Research Interests</b>	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.	
<b>Education</b>	<ul style="list-style-type: none"><li>• <b>Stony Brook University,</b> <b>Department of Biomedical Informatics, USA</b> <i>Ph.D. Candidate, Jan. 2020 - Now</i></li><li>• <b>Stony Brook University,</b> <b>Department of Applied Mathematics &amp; Statistics, USA</b> <i>Master of Science , Sep. 2018 - Jul. 2020</i></li><li>• <b>Jilin University,</b> <b>School of Mathematics, China</b> <i>Bachelor of Science, Sep. 2014 - Jul. 2018</i></li></ul>	
<b>Publications</b>	(* indicates equal contribution) [1] Spatial Diffusion for Cell Layout Generation <b>Chen Li</b> , 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 <b>Chen Li</b> , Xiaoling Hu, Shahira Abousamra, Chao Chen <i>International Conference on Computer Vision (ICCV)</i> , 2023 [3] Confidence Estimation Using Unlabeled Data. <b>Chen Li</b> , 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, <b>Chen Li</b> , Justin L. Couetil, Ze Ye, Kun Huang, Jie Zhang, Chao Chen, Travis S. Johnson <i>Cancers</i> , 2022	
<b>Selected Honors and Awards</b>	<ul style="list-style-type: none"><li>• Third Class Academic Scholarship, Jilin University, 2016 (20%)</li><li>• Second Class Academic Scholarship, Jilin University, 2015 (15%)</li></ul>	
<b>Experiences</b>	<b>Stony Brook University, Department of BMI, USA</b> <i>Research Assistant</i> Advisor: <i>Prof.</i> Chao Chen <ul style="list-style-type: none"><li>• Uncertainty estimation</li><li>• Semi-supervised learning</li><li>• Crowd counting</li><li>• Diffusion model</li></ul>	<b>Sep. 2020 - Present</b>

**United Imaging Intelligence America**  
*Research Intern*

**Jun. 2020 - Sep. 2020**

Advisor: *Dr. Chen Xiao*

- Pseudo labeling
- Diffusion model
- Cardiac magnetic resonance imaging

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

**Skills**

- **Languages:** C, Matlab, Python
- **OS:** Linux, Windows
- **Tools:** Torch, PyTorch, OpenCV, matplotlib