

Chen Li

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Website: <https://superlc1995.github.io/>

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**
- **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] Calibrating Uncertainty for Semi-Supervised Crowd Counting
Chen Li, Xiaoling Hu, Shahira Abousamra, Chao Chen
International Conference on Computer Vision (ICCV), 2023
 - [2] Confidence Estimation Using Unlabeled Data.
Chen Li, Xiaoling Hu, Chao Chen
International Conference on Learning Representations (ICLR), 2023
 - [3] 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

Research Assistant **Dec. 2021 - Present**
Stony Brook University, Department of BMI, USA
Advisor: *Prof. Chao Chen*

- Develop methods for uncertainty estimation in various computer vision tasks.
- Create surrogate functions for semi-supervised uncertainty estimation.
- Conduct topological data analysis on diverse datasets.

Teaching Assistant **Sep. 2021 - Dec. 2021**
Stony Brook University, Department of BMI, USA
BMI 503: Computer Science for Biomedical Informatics

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