Sizhe Li

Phone: 401-527-5518 | Email: sli96@u.rochester.edu | Web: lester0866.github.io

RESEARCH INTERESTS

- Multimodal Learning: audio-visual video understanding

- Medical Computer Vision: histopathological cancer classification

EDUCATION

University of Rochester   Rochester, NY

Bachelor of Science, Double Major: Computer Science and Applied Mathematics   *Sep. 2018 – Exp. 2022*

RESEARCH EXPERIENCE

University of Rochester   Rochester, NY

Research Assistant with Prof. Chenliang Xu   *Sep. 2019 – Present*

- Focus: audio-visual learning in videos.
- Proposed and implemented a space-time memory framework that leverages multimodal temporal coherence for sounding object localization in videos, currently under review.

Brown University   Providence, RI

Research Assistant with Prof. Thomas Serre   *June. 2019 – Present*

- Focus: histopathological cancer classification of whole slide images from biopsies.
- Proposed and implemented a weakly-supervised framework for prostate cancer grading and lung cancer mutation classification. Works accepted to NeurIPS2020 workshop and The Journal of Urology.

PUBLICATIONS

Space-Time Memory Network for Sounding Object Localization in Videos

Sizhe Li, Yapeng Tian, Chenliang Xu

- Under review as a conference paper at IJCAI 2021

Learning to localize mutation in lung adenocarcinoma histopathology images

Sahar Shahamatdar, Daryoush Saeed-Vafa, Drew Linsley, Sizhe Li, Sohini Ramachandran, Thomas Serre

- NeurIPS2020 Workshop on Learning Meaningful Representations of Life

A Deep Learning Algorithm for the Diagnosis and Gleason Grading of Whole Slide Images of Prostate Cancer Core Biopsies

Ohad Kott*, Sizhe Li*, Drew Linsley, Ali Amin, Bora Golijanin, Dragan Golijanin, Thomas Serre, Boris Gershman

- The Journal of Urology, 2020 (***Equal contribution**)

TECHNICAL SKILLS

Languages: Python, C, JAVA, R, LaTeX, Shell
Frameworks: PyTorch, TensorFlow, Slurm (Distributed Computing)