Sizhe Li

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Research Interests

- Multimodal Learning: audio-visual video understanding
- Medical Computer Vision: histopathological cancer classification

Education

University of Rochester Rochester, NY

B.S. in Computer Science, B.A. in Mathematics and Statistics *Sep. 2018 – Exp. 2022*

Research Experience

University of Rochester Rochester, NY

Research Assistant with Prof. Chenliang Xu *Sep. 2020 – 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. 2020 – 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)