ZIKUN CHEN

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OBJECTIVE

- I am to find a challenging research internship to fully use my knowledge and skills in machine learning and statistics. I am particularly interested in research projects on human-computer interaction, augmented reality and data visualization.

EDUCATION

MSc in Applied Computing *September 2020 - December 2021 (expected)*
University of Toronto, Department of Computer Science
Courses: Topics in Multidisciplinary HCI, Information Visualization, Probabilistic Learning and Reasoning, Current Algorithms and Techniques in Machine Learning

BSc in Computer Science and Statistics *September 2017 - June 2020*
CGPA: 3.89/4.0
The University of British Columbia, Department of Computer Science, Department of Statistics

BSc in Statistics *September 2016 - August 2017*
CGPA: 4.03/4.33
Simon Fraser University, Department of Statistics

EXPERIENCE

Summer Research Assistant *May 2019 - August 2019*
PLAI Lab, Department of Computer Science, The University of British Columbia

- Using PyTorch, developed a novel semi-supervised image-to-image translation model based on generative adversarial networks. The model was applied to detect and remove raindrops on unpaired images, featuring autonomous driving scenarios.
- Built pipelines for evaluation on downstream computer vision tasks, including semantic segmentation and lane detection.
- The proposed semi-supervised model outperforms fully-supervised state-of-the-art models including pix2pixHD and attentiveGAN in raindrop removals and the downstream tasks.

PROJECTS

SpotiVis: Interactive Spotify Music Analytic Visualization *Sep 2020 - Dec 2020*
Information Visualization Course Project

- Using Python and Javascript, designed and implemented a novel analytic visualization-based interface, SpotiVis, that allows users to visualize data of playlists and tracks provided by Spotify.
- The interface facilitates comparisons between different playlists and individual tracks, aiming at improving the user's experience of understanding Spotify recommendations and picking new songs to listen to from new playlists.

TECHNICAL SKILLS

Programming Languages: Python, R, Java, JavaScript
Databases: MySQL

AWARDS/ PUBLICATIONS

- Scibior, A., Bergholm, A., Chen, Z., Solodova, O., Hnatiuk, E., Wood, F. 2019. *Semi-supervised image to image translation with applications to water droplet removal*. UILO invention ID 2020-046, technology ID 20-077 *disclosure pending*
- Trek Excellence Scholarship for Continuing Students, 2018, The University of British Columbia