

# Hantang Li

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## EDUCATION

### UNIVERSITY OF TORONTO

MASTER OF SCIENCE IN APPLIED  
COMPUTING

Sep 2022 - May 2024 | Toronto, ON

### UNIVERSITY OF TORONTO

HONOURS BACHELOR OF SCIENCE,  
COMPUTER SCIENCE SPECIALIST  
DATA SCIENCE SPECIALIST

Sep 2017 - May 2022 | Toronto, ON

Cum. GPA: 3.90/4.00

## COURSEWORK

Computer Networks (ongoing)  
Storage Systems (ongoing)  
Operating Systems  
Computer Organization  
Algorithm Design and Analysis  
Software Design  
Programming on the Web  
Databases  
Business Software  
Introduction to Image Understanding  
Uncertainty & Learning  
Data Science I & II  
Stochastic Processes  
Reinforcement Learning  
Neural Networks and Deep Learning,  
Data Analysis I & II  
Design and Analysis of Experiments  
Principles of Programming Languages  
Advanced Calculus  
Linear Algebra I & II  
Probability & Statistics I & II  
Introduction to Psychology

## LINKS

WebSite:// [hantang\\_li](https://hantang_li.github.io)  
Github:// [Hantang-Li](https://github.com/Hantang-Li)  
LinkedIn:// [hantang-li](https://www.linkedin.com/in/hantang-li)

## SKILLS

### PROGRAMMING

Python • R • Java • C  
JavaScript • Git • Bash  
Docker • SQL •  $\text{\LaTeX}$

### LIBRARIES

NumPy • Pandas • PyTorch • MONAI  
Matplotlib • Plotly • seaborn • ggplot2  
OpenCV • FFmpeg • Robosuite

## HONOURS

2018 - 2022 Dean's List Scholar for all school years

## RESEARCH AND WORK EXPERIENCE

### SUNNYBROOK HEALTH SCIENCES CENTRE | RESEARCH ASSISTANT

May 2021 - July 2022 | Toronto, ON | BrainLab | Supervisor: Maged Goubran

- Focus on using Generative Adversarial Networks and Convolutional Networks to translate Multiphase CT angiography to CT perfusion images.(Python, Pytorch, NiBabel, MONAI)
- Processed clinical 3D CT data for the UNETR Pytorch model training pipeline.
- Conducted literature review, preprocessed the data, and analyzed patient information.

### HUAWEI NOAH'S ARK LAB | SOFTWARE ENGINEER

May 2020 - May 2021 | Markham, ON | Work as PEY co-op student

- Focused on solving computer vision problems, building ML systems, and contributing to Video Content Tagging on Huawei Cloud. (Python, PyTorch, Pandas, NumPy, Django, JavaScript, Docker)
- Developed multiple data preprocessing pipelines to process raw data for model training and testing.
- Trained image and audio classification models for a classification system to classify different categories of contents.
- Improved data analysis and visualization pipeline for model's test results.

## PROJECTS

### EXPLORATION OF MUSIC OBJECT DETECTION USING DETECTION TRANSFORMER | JAN 2021 - MAY 2021

- Used the Transformer-based model Detection Transformer (DETR) on music object detection and compared it with Faster R-CNN. (PyTorch)  
- Analyzed the structure of the model, the encoder and decoder weight heat map of DETR.  
- Inferred the different performances of DETR on cropped and uncropped sheet music images, tuned the DETR model, and gave suggestions on improving the potential methods of DETR in music object detection.

### SIDEWALK LABS DATA VISUALIZATION | JAN 2020 - MAY 2020

- Provided data analysis and visualization tools to help customers who used numina sensors make decisions. (NumPy, Pandas, PyTorch, Matplotlib, Plotly)  
- Developed a page to display the path heat map of travellers and objects and the dwell time distribution of selected areas.  
- Worked as the team leader, established team workflow, and integrated the work results into an overall website.

### JERRYUP CAMPAIN MASTER | PRODUCT DESIGN, MARKET ANALYSIS

Sep 2021 - Dec 2021 | Markham, ON | DCSIL

- Communicated between our developing team with RBC customers and course instructors on improving our product.  
- Conducted in-depth research on our market, competitors, customers, and built financial modelling.