

# Hantang Li

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## EDUCATION

**UNIVERSITY OF TORONTO**  
**HONOURS BACHELOR OF SCIENCE,**  
**COMPUTER SCIENCE SPECIALIST**  
**DATA SCIENCE SPECIALIST**  
Sep 2017 - May 2022 | Toronto, ON  
Cum. GPA: 3.89/4.00

## COURSEWORK

### ONGOING

Introduction to Image Understanding  
Uncertainty & Learning  
Data Science II  
Stochastic Processes

### COMPLETED

Reinforcement Learning  
Introduction to Artificial Intelligence  
Business Software  
Neural Networks and Deep Learning,  
Introduction to Machine Learning,  
Data Analysis I & II  
Data Science I  
Theory of Statistical Practice  
Design and Analysis of Experiments  
Principles of Programming Languages  
Operating Systems  
Computer Organization  
Algorithm Design and Analysis  
Advanced Calculus  
Linear Algebra I & II  
Probability & Statistics I & II  
Software Design  
Programming on the Web  
Introduction to Databases  
Introduction to Psychology

## LINKS

WebSite:// [hantang\\_li](https://hantang.li)  
Facebook:// [hunter.lee](https://hunter.lee)  
Github:// [Hantang-Li](https://Hantang-Li)  
LinkedIn:// [hantang-li](https://hantang-li)

## SKILLS

### PROGRAMMING

Python • R • Java • C  
JavaScript • HTML • CSS • Git  
Bash • Docker • SQL •  $\LaTeX$

### LIBRARIES

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

## HONOURS

2018 - 2020 Dean's List Scholar for three consecutive years

## RESEARCH AND WORK EXPERIENCE

**SUNNYBROOK HEALTH SCIENCES CENTRE | RESEARCH ASSISTANT**  
May 2021 - Present | Toronto, ON | BrainLab | Supervisor: Maged Goubran

- Use Generative Adversarial Networks and Convolutional Networks to translate Multiphase CT angiography image to CT perfusion image.
- Conducted literature review, preprocessed the data, and analyzed patient information.

**HUAWEI NOAH'S ARK LAB | RESEARCH ENGINEER**

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

- Focused on solving computer-vision-related problems using machine learning methods and models.
- Trained image and audio classification models for a classification system to classify different categories of contents.
- Developed multiple data preprocessing pipelines to process raw data for model training and testing.
- Modified 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.
- 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.
- 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 - Present | 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.