# Huifeng (Kent) **Wu**

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## **Edu**cation

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|---|---|
| **University of Toronto** | *Toronto, Canada* |
| B.S. IN COMPUTER SCIENCE AND APPLIED STATISTICS (ECONOMICS FOCUS)  **GPA:3.6/4.0** | *Sep. 2017 - Aug. 2021* |

- NSERC Undergraduate Summer Research Award in 2021

## **Exp**eriences

**University of Toronto, Dynamic Optimization & Operations Management Lab**                                          *Toronto, Canada*
RESEARCH STUDENT    MENTOR: CHI-GUHN LEE                                                                             *May. 2021 – Present*

- Develop a data pipeline and dashboard for fire mitigation strategies for first responders
- Resolve a sim-to-real dynamics mismatch to tackle a fetch and reach task by reinforcement learning

**University of Toronto, Department of Statistical Sciences**                                                        *Toronto, Canada*
RESEARCH ASSISTANT    MENTOR: SILVANA PESENTI                                                                        *May. 2021 – Present*

- Contribute to new features and improve generalization of risk measures in Scenario Weights for Importance Measurement (SWIM) R-package

**Kidney Health Education and Research Group, Data Management**                                                      *Toronto, Canada*
JUNIOR STATISTICIAN / DEVELOPER                                                                                      *May. 2020 – Aug. 2020*

- ETL for management of over 4,000 study variables inside patient databases for patient-reported outcome measures (PROMs) validation
- Performed supplementary data analysis for studies on psychosocial and sociocultural barriers to kidney transplantation and dialysis

**Toronto Rehab Institute, KITE Research**                                                                           *Toronto, Canada*
COOP STUDENT                                                                                                         *Apr. 2019 – Aug. 2021*

- Orchestrated end-to-end testing plans for over 200 footwear equipped with slip-resistant technologies, and published evidence-based ratings of the tested products based on their risks of slips and falls
- Implemented automation processes and a user interface for Maximum Achievable Angle (MAA) testing with historical data validation
- Built a deep learning framework to interpret slips events, designed experiments, and eventually obtained over 86% accuracy
- Camera calibration and image processing to remove undesired perspective distortions

## **Ext**racurricular Activities

**Educating Chinese Children Hope Offered (ECCHO)**                                                                  *Toronto, Canada*
EVENTS EXECUTIVE                                                                                                     *Sep. 2017 - Present*

- Lead project management by supervising event operations in logistics, resource allocation, stakeholders communications, etc
- Plan and launch activities such as Amazing Run, Charity Gala, and Local Volunteer

**Rotman Master of Management Analytics (MMA) Datathon**                                                             *Toronto, Canada*
TEAM LEAD                                                                                                            *Oct. 2020*

- Honorable mentioned in accomplishing a sophisticated machine learning model of weighted ensembling, which offered insight of identifying fraudulent claims by health care providers for the US Medicare insurance program

**RiskLab Risk Management Case Competition**                                                                         *Toronto, Canada*
TEAM MEMBER                                                                                                          *Mar. 2019*

- Formulated a strategical report using smart beta factor investment, aiming for risk diversification and reduction

## **Pub**lications

[1] **Kent Wu**, Suzy He, Geoff Fernie, and Atena Roshan Fekr. Deep neural network for slip detection on ice surface. *Sensors*, 20(23), 2020.

## **Skills**

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|---|---|
| **Programming** | Python, Matlab, R, Stata, web scripting (HTML, CSS), SQL, Julia, Java, Android Development |
| **Data Science** | Pytorch, Tensorflow, Numpy, Pandas, Matplotlib, Sci-kit Learn, OpenCV |
| **Tools** | Latex, Linux, Git, Slurm, Wordpress |
| **Certificates** | GARP Financial Risk Manager Part I (Passed in Nov 2019) |
| **Languages** | English, Mandarin Chinese, Cantonese |