

# Michal Malyska

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## Education

### University of Toronto

2019–2020

#### MSc Statistics

- Teaching Assistant - Statistical Methods for Machine Learning (STA314) - Fall 2019, Intro to Data Science (STA130)- Fall 2019
- Research Assistant - RiskLab - Fall 2019, Research Assistant - Vector Institute - Fall 2019

### University of Toronto

2015–2019

#### Honors BSc. Statistics

- Teaching Assistant - Statistical Methods for Machine Learning (STA314) - Fall 2018, Data Analysis II (STA303)- Spring 2019
- Research Assistant - RiskLab - Spring 2019

## Work Experience

### Semantic Health

Toronto, Canada

#### Machine Learning Engineer

June 2019 - Current

- Implemented state of the art NLP algorithms from publications
- Improved the data pipeline and model evaluation procedures for complicated NLP datasets in a highly multi-label setting.

### Deloitte - Actuarial, Rewards & Analytics

Toronto, Canada

#### Analyst

January 2018-August 2018

- Worked client-site on business analytics, loss forecasting, and predictive modelling for a large insurance client
- Co-authored a publication for the Canadian Institute of Actuaries on the state of predictive analytics in the insurance industry
- Worked for a large public sector client developing an overview of internal and external data, and analytical tools

### Intact Financial - Belairdirect

Toronto, Canada

#### Actuarial Analyst

Summer 2017

- Authored an efficient algorithm enabling the company to analyze the inforce business at different points in time
- Took part in preparation and submission of regulatory rate filings
- Worked on developing and validating benchmark pricing models

## Extracurricular Experience

### ASA Datafest

University of Toronto

#### 1st. Place, Mentor

May 2017, 2018

- Created a business case from click data for Expedia, aimed at improving the suggestion engine and customer retention
- Served as a mentor during the 2018 competition

### McKinsey Open Data Challenge

McKinsey & Company

#### 1st. Place

October 2017

- Created a business case and an MVP aimed at re-routing low urgency patients to hospitals with lowest estimated wait time

### Statistical Sciences Union

University of Toronto

#### President

October 2016–April 2017

- Handled administrative and operational aspects of running a course union with 3000+ members
- Established and maintained relations with research institutes, industry, and the department

## Professional Skills

**Programming:** Python, R, VBA, SQL, SAS

**Languages:** Polish (Native), English (Native), German (A2)

**ML/Statistical Packages:** **R:** tidyverse, forcats, tidymodels, shiny, STAN, INLA, **Python:** Pytorch, xgboost, LGBM, scikit-learn, SpaCy, torchtext, fastai, Tensorflow, keras, numpy, pandas, git