

# Kevin Dang

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## EDUCATION

### UNIVERSITY OF TORONTO

Honours Bachelor of Science

*Applied Statistics Specialist*

*Mathematics Minor*

2016 - Present

### COURSES

- Computer Programming
- Linear Algebra
- Machine Learning
- Methods of Data Analysis
- Multivariate Calculus
- Partial Differential Equations
- Statistical Practice
- Statistical Theory

### MOOCs

- MIT: Computer Science using Python
- Stanford: Machine Learning
- UofT: Learn to Program

## SKILLS

### PROGRAMMING

- Python • R • SQL • Stata
- MATLAB • HTML • CSS

### OTHER

- MS Access • MS Excel
- MS Office • LaTeX

## AWARDS

UofT Entrance Scholarship

- 92%+ average

AP National Scholar

- 98th Percentile

Mathematics Award

- Highest overall average across all senior math courses

## INTERESTS

Volunteering

- Eco-Team Executive
- Student Council Representative
- Statistics Study Group Leader
- Tennis Canada (Fundraising)

Hobbies

- Board games • Bowling • Piano
- Soccer • Table Tennis

## EXPERIENCE

### ROTMAN SCHOOL OF MANAGEMENT | *Research Assistant*

May 2018 - Present | Toronto, ON

- Worked under the supervision of **Dr. Christopher Liu** with a **team of graduate students** on a project to analyze career trajectories of PhD Life Scientists
- **Queried scientific databases** to find articles written by specific authors and exported data into Excel spreadsheets
- **Merged and manipulated large datasets using Stata**, extracted desired information, cleaned data and generated new variables
- Used **BeautifulSoup for web scraping** and exported data into Excel to improve efficiency in creating new datasets with **Stata**

### MOSAIC NORTH AMERICA | *Brand Ambassador*

Oct 2015 - Sep 2017 | Toronto, ON

- Promoted different types of brands for numerous companies and **consistently increased product sales** by more than the daily target of **25%**
- Wrote reports containing information regarding customer interaction, sales made, products purchased, demo issues and conflict resolution

## PROJECTS

### RADIUS OF THE EARTH | *Python*

- Collected data on gravitational strength using a gravimeter, manipulated data with **NumPy** and fit models to the data using **SciPy**
- Plotted models using **matplotlib** and performed **chi-squared analysis** on the models to check for goodness of fit, and estimated the radius of the Earth to **within 30 kilometres**

### NODAL INVOLVEMENT IN PROSTATE CANCER | *R Markdown*

- Fit **binary logistic regression models** and analyzed deviance to assess which predictors are significant in predicting nodal involvement
- Visualized the success rates of predictors with **ggplot**, and used **corrplot** to show potential relationships between predictors

### JOB APPLICATIONS | *SQL*

- Stored job application data in a **SQLite database** for efficient data retrieval
- **Wrote queries** to extract specific information displayed in a table

### RENT-A-BIKE | *Python*

- Extracted and cleaned data from an **Excel spreadsheet** to manage Toronto's bike share network across **200 stations**
- Implemented functions for **data queries and data modification**; simulated bike rentals and returns, kept track of the current state of the network and provided directions for riders

### CALIBRATING A SNOW GAUGE | *R Markdown*

- Plotted standardized residuals and normal quantile plot using **ggplot** to check the linear regression model assumptions
- Performed a **box-cox transformation** on the predictor variable and yielded a transformed linear model with a **correlation coefficient above 0.99**

### THE EFFECT OF RESTING TIME ON PUSH-UPS | *Statistics*

- **Collected data** on the number of push-ups that males aged 16-18 can complete over two sets with a specified resting time in between
- **Graphed data** in the form of histograms, conducted **statistical analysis** and performed **inference testing** via a two-sample t-test