Kevin Dang

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SKILLS

LANGUAGES
• Python • R • SQL • Stata
• HTML • CSS • LaTeX

OTHER
• Access • Excel
• Microsoft Office • WordPress

EDUCATION

UNIVERSITY OF TORONTO
Honours Bachelor of Science
Applied Statistics & Mathematics
2016 - Present

COURSES
• Computer Programming
• Differential Equations
• Machine Learning
• Methods of Data Analysis
• Multivariate Calculus
• Practical Physics
• Statistical Practice
• Statistical Theory

AWARDS

UofT Entrance Scholarship
• 92%+ average

AP National Scholar
• 98th Percentile

Mathematics Award
• Highest overall average across all senior math courses

Certificate of Distinction
• Top 25% in the 2015 Waterloo Senior Math Contest

INTERESTS

Industries
• Biostatistics • Business Analytics
• Data Science • Finance • Software

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

EXPERIENCE

ROTMAN SCHOOL OF MANAGEMENT | *Research Assistant*
May 2018 - Present | Toronto, ON

- **Collaborated** with **Professor Christopher Liu** and a **team of graduate students** on a new project to track the career progression 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 Python for web scraping** and exported data into Excel to improve efficiency in creating new datasets with **Stata**

MOSAIC SALES SOLUTIONS | *Brand Ambassador*
Oct 2015 – Sep 2017 | Toronto, ON

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

PROJECTS

PHOTOELECTRIC EFFECT | *Python*

- Collected data on stopping voltages and frequencies of LEDs, 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, then estimated Planck's constant, cutoff frequency, and work function

CALIBRATING A SNOW GAUGE | *R Markdown*

- Plotted standardized residuals and normal quantile plot using **ggplot2** 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**

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

SOCIAL NETWORKS | *Python*

- **Developed a friend recommendation system** on the basis of mutual friends, common networks, and family name
- Wrote various **unit tests** to test specific functions for correctness

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

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