

# Tyler Kastner

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## Education

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**McGill University**    BSc. Joint Honours in Math and Computer Science    GPA: 3.84/4.00  
Fall 2018-Present

Awards:

- NSERC Undergraduate Research Award
- Tomlinson Engagement Award for Mentoring

**John Abbott College**    DEC Sciences    Fall 2016-Winter 2018

Awards:

- Nick Arganski Award (Highest Achievement in Math)

## Experience

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**Undergraduate Research Assistant (McGill University)**    Summer 2020

- Conducted research under supervision of Prof. Prakash Panangaden in the field of reinforcement learning, funded by NSERC. Topics were mainly theoretical (Hilbert-Space based metrics to determine state similarity), with a practical component of running experiments using Python.

**Customer Success Engineer (Mako Fintech)**    August 2020-Present

- Worked closely with VP Software Engineering and VP Operations in onboarding clients. Wrote JSON templates to encode logic of financial forms, and used a Ruby backend environment.

**Teaching Assistant (McGill University)**    September 2020-May 2020

- Graded assignments and held tutorials for multiple Math courses (Math 248, Math 255, Math 358).
- Tutored at McGill's Math Help Centre, holding weekly office hours.

## Projects

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**Machine Learning and Art**    Tensorflow

- I have implemented various "artistic" algorithms (Neural-Style Transfer, and Generative models), and show the results on my website.

**"WSB" Sentiment Analysis**    Python

- I scraped the reddit forum "Wall Street Bets" (a forum for amateur option trading which is known for speculative, leveraged trades), and classified whether the daily sentiment on different stocks as either bullish or bearish each day, and compared to actual market returns.

## Skills

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**Strongest Languages:** C++/C, OCaml, Python

**Technologies:** Linux, git, AWS

**(Natural) Languages:** Fluent in English and French

**Research Interests:**

- Quantitative Finance
- Machine Learning (CV, NLP, Generative Models)
- Information Theory/ Data Encryption
- Probabilistic Analysis of Algorithms