FINBARR TIMBERS

Research & Policy Analyst in the Wildrose Caucus

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Profile

Newly graduated applied mathematician looking to sling data around for an early stage startup. Previously: research assistant in mathematical finance. Co-author of machine learning paper under consideration at ICSME 2014.

Experience

Wildrose Caucus — Edmonton, AB
Research & Policy Analyst — May — August 2014

- Developed statistical models to estimate costs of different policies.
- Created tools (mostly Cron jobs running Python scripts) to automatically gather & archive information on opposition.

University of Alberta — Edmonton, AB
Research Assistant — May — August 2013

- Modelled the behaviour of the prisoner's dilemma as it moves from being a discrete process to a continuous one.
- Produced a model in Matlab demonstrating the public perfect equilibria of the prisoner's dilemma.
- Learned graduate level stochastic calculus.

University of Alberta — Edmonton, AB
Research Assistant — Jan. — May 2013

- Wrote a paper on the efficiency of judicial decisions in antitrust cases.
- Used models from industrial organisation to simulate decisions using Python.
- Worked for a Senior Research Scholar from Harvard Law School.

Jacobs Canada Inc. — Edmonton, AB
Engineering Intern — May — August 2011, 2012

- Audited client terminals, ensuring the accuracy of engineering drawings.

Education

University of Alberta — 2010 — 2014
B. Sc. (*Hons*) Mathematics & Economics, First class honors

- Dean's Silver Medal in Science (top 3% of Science students)
- Paper under consideration at software engineering conference (ICSME)
- Graduate classes in probability theory, machine learning, and quantitative finance.

Open Source

Incanter — April 2014
- Added code to calculate Goodman and Kruskal's gamma coefficient.

Cascalog — April 2014
- Expanded unit test coverage.

Skills

Python, R, Javascript, Matlab, Clojure, OCaml, Haskell, Excel, Unix, LaTeX, etc. Familiar with software engineering best practices (TDD, Agile, source control).