

FINBARR TIMBERS

Languages: English (native), French (conversational— DELF B2).

Citizenships: Canada, Ireland.

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Experience	DARKHORSE ANALYTICS	Edmonton, AB
	<i>Analyst</i>	July 2016 —
<ul style="list-style-type: none">• Wrote and submitted more than \$1 million in proposals.• <i>Project: Economic Development and Trade: International trade prioritization</i><ul style="list-style-type: none">– Designed a model to predict international trade for the Alberta Ministry of Economic Development and Trade.– Implemented the model using random forests in Python.– Solved a number of scaling issues as the data was 10 GB in size and came from 120 GB of raw data.– Set up & managed infrastructure via AWS (RDS & EMR).• <i>Project: Advanced Labour Market Analytics: Statistical weighting algorithm</i><ul style="list-style-type: none">– Designed a statistical weighting system for the Alberta Ministry of Jobs, Skills, Training and Labour to make survey responses more representative of the population.– Implemented the system in Python using Numpy and Scipy.– Wrote an extensive unit test suite to guarantee integration with client systems.• <i>Project: Oil Price Forecasting</i><ul style="list-style-type: none">– Worked with a team of graduate students at the University of Alberta to develop a RNN to predict the price of oil. RNN beat the existing state of the art by 30%.– Currently writing results up, which we hope to publish this summer.		
	VARIOUS CLIENTS	Edmonton, AB
	<i>Consultant</i>	August 2014 —
<ul style="list-style-type: none">• Worked as a consultant providing advice on economic & statistical issues for various clients.		
	LEGISLATIVE ASSEMBLY OFFICE	Edmonton, AB
	<i>Research Analyst</i>	May 2014 — August 2014
<ul style="list-style-type: none">• Conducted statistical/economic analysis to provide policy advice to MLAs.• Used Python and Bash to clean and gather data.		
Education	LONDON SCHOOL OF ECONOMICS	September, 2014 — July, 2015
	M. Sc. Econometrics & Mathematical Economics	
	UNIVERSITY OF ALBERTA	2010 — 2014
	B. Sc. (<i>Hons</i>) Mathematics & Economics, First class honors	
<ul style="list-style-type: none">• Silver medallist in Mathematics.		
Publications	Aggarwal, K., Timbers, F., Rutgers, T., Hindle, A., Greiner, R., and Stroulia, E. “Detecting Duplicate Bug Reports using a Hierarchy of Domain Knowledge Contexts” <i>Journal of Software: Evolution and Process</i> , August 2016.	
	Aggarwal, K., Rutgers, T., Timbers, F., Hindle, A., Greiner, R., and Stroulia, E. “Detecting Duplicate Bug Reports with Software Engineering Domain Knowledge.” 22nd IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER).	

<i>Talks</i>	EDMONTON DATA SCIENCE MEETUP <i>A Talker on Docker</i>	Edmonton, Alberta October 5th, 2016.
	USER! 2016 <i>Automating your work away: One consulting firm's experience.</i>	Stanford University, Palo Alto, USA July 27th, 2016.
<i>Projects</i>	WWW.BUGDEDUPE.COM	Edmonton, AB
	<ul style="list-style-type: none"> • Turned the bug report deduplication research that I was involved with into a SaaS application. • Lead a small team (myself + two developers) to build the service. 	
<i>Skills</i>	PROGRAMMING	
	<ul style="list-style-type: none"> • Languages: Experienced: Python, Bash, R, L^AT_EX. Learning: C++, Javascript. • Tools: Experienced: Git, Unix command line, Emacs, Docker, Kubernetes, GCE, AWS. • Frameworks: Tensorflow, SciPy/Numpy/Pandas stack, Hadleyverse. 	
<i>Open Source</i>	<ul style="list-style-type: none"> • Tensorflow: implemented CDF for Student's T distribution. • Incanter: implemented Goodman and Kruskal's gamma coefficient. 	