Eugenie Y. Lai

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Education	**University of British Columbia**, Vancouver, BC, Canada	September 2015-Present

University of British Columbia, Vancouver, BC, Canada September 2015-Present
Bachelor of Commerce, Combined Major of Business and Computer Science
GPA: 3.99/4.0

Awards

Scholarships
- 2020 Rick Sample Memorial Research Award – $2,500
- 2019 IVADO/Mila Deep Learning Winter School Scholarship – $500
- 2019 Kenneth G. Young Memorial Scholarship – $800
- 2017 Sauder School of Business Scholarship – $2,300
- 2017 Trek Excellence Scholarship – $1,500

Distinctions
- 2016 Dean's Honour Roll

Publications

O. AlOmeir, **E. Y. Lai**, M. Milani, and R. Pottinger. *Summarizing Provenance of Aggregation Query Results in Relational Databases.* [Short paper]. To Appear in IEEE International Conference on Data Engineering, 2021 (ICDE '21).

O. AlOmeir, **E. Y. Lai**, M. Milani, and R. Pottinger. *Pastwatch: On the Usability of Provenance Data in Relational Databases.* [Short paper]. To Appear in IEEE International Conference on Data Engineering, 2020 (ICDE '20).

Presentations

Developing a Data-Driven Electric Vehicle Strategy in Surrey, BC, Canada. [Co-presented] SIGKDD Social Impact Session, 2020.

Maximizing Utilization of Electric Vehicle Charging Infrastructure in Surrey, BC Using a Data-Driven Model. [Co-presented] UBC Multidisciplinary Undergraduate Research Conference (MURC), 2020.

Computer Science Undergraduate Program Evaluation and Renewal. [Co-presented with Dr. Rachel Pottinger]. UBC Board of Governors Meeting, 2020.

Facilitating Users with SQL Query Formulation. UBC Undergraduate Three-Minute Thesis Competition, 2019.

EV Explorer: A Visualization Tool for Surrey Electric Vehicle Transformation Strategy. [Co-presented] UBC Vancouver Summer Program (VSP) Urban Big Data Mentoring Event, 2019.

Research Experience

UBC Data Management and Mining Lab April 2019-Present
Research Assistant with Dr. Rachel Pottinger
- Assist knowledge exploration in databases to help users better access and make sense of data.
- Apply concepts of visualization and machine learning to build a system that recommends customized SQL queries using query workloads.

Sauder School of Business July 2019-Present
Research Assistant with Dr. Arslan Aziz, Dr. Gene Lee
- Use causal inference methods to evaluate the impact of online platform policy ban on incentivized reviews using consumer reviews and validate the results with robustness checks.
- Apply natural language processing (NLP) techniques to process large datasets and use Amazon AWS and Google NLP APIs to identify unnatural reviews based on linguistic features.

UBC Data Science Institute Summer 2019
Research Intern with Dr. Raymond Ng (primary), Dr. Kevin Lin
- Partnered with the Environmental Sustainability Advisory Committee of the City of Surrey, BC to guide the development of the Surrey Electric Vehicle Transformation Strategy.
- Used statistical and machine learning models to understand potential electric vehicle consumers and classify communities into groups such as current growth and high potential.

Industry Experience	**Statistics Canada Ottawa Headquarter**	September 2017-April 2018

Full-Stack Developer Intern

- Implemented a web service application embedded in a toolbox using technologies such as C#, JavaScript, SQL, ASP .NET and exceeded clients expectations by optimizing jQuery widgets.
- Designed and developed a Windows Service application and obtained positive feedback from clients by effectively communicating the client needs and executing tasks efficiently.
- Obtained a full-time offer from the Statistics Information System Division (SISD) executive team by demonstrating strong self-learning skills and work ethic.

Teaching Experience	**University of British Columbia**	
	Computer Science Undergraduate Program Curriculum Renewal Project	August 2019-Present
	CPSC 304 Introduction to Relational Databases	May 2019-July 2019

Community Involvement	SIGMOD 2020, *Student Volunteer*	June 2020
	UBC Data Science for Social Good Program, *Student Mentor*	June 2020
	UBC Computer Science Student Society (CSSS) Coffee Chat, *Mentor*	March 2020-May 2020
	UBC Computer Science Tri-Mentoring Program, *Student Mentor*	September 2018-April 2019
	Greater Vancouver Regional Science Fair, *Lab Volunteer*	April 2017
	Learning Buddy Network, *Math Tutor Volunteer*	January 2017-April 2017
	UBC YOURS Club, *IT Team Executive*	October 2015-April 2016

Additional Training	Grad Courses

- CPSC 530L Topics in Artificial Intelligence: AI Social Impact
- COMM 635 Advanced Topics in Information Systems: Causal Inference

Other Training

- 2019 IVADO/Mila Deep Learning Winter School 5th Edition
- 2019 UBC Data Science for Social Good (DSSG) Workshop Series

Programming	Python, R, JavaScript.

References	Available upon request.