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
BCom in the Combined Major of Business and Computer Science
GPA: 4.0/4.0

Awards

Scholarships
- 2019 IVADO 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
- 2020 Rick Sample Memorial Research Award
- 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.* Submitted to IEEE International Conference on Data Engineering, 2021 (ICDE '21). (*Indicates equal contribution)

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

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

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

Facilitating SQL Query Composition. UBC Undergraduate Three-Minute Thesis Competition, 2019.

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

Research Experience

UBC Data Management and Mining Lab   Summer 2020
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.
- Recognized as a top front-end developer of the ICode team and obtained a full-time developer 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

Teaching/Academic Assistant

Computer Science Undergraduate Program Curriculum Renewal Project — August 2019-Present

CPSC 304 Introduction to Relational Databases — Summer 2019

Community Involvement

UBC Computer Science Student Society (CSSS) Coffee Chat, *Mentor* — March 2020-May 2020

UBC Data Management and Mining Lab, *Volunteer* — April 2019-April 2020

UBC Computer Science Tri-Mentorship, *Student Mentor* — September 2018-April 2019

Greater Vancouver Regional Science Fair, *Lab Volunteer* — April 2017

Learning Buddy Network, *Math Tutor Volunteer* — January 2016-April 2016

Notable Training

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

Additional Training: 2019 IVADO/Mila Deep Learning Winter School 5$^{\text{th}}$ Edition

Programming

Python, R, JavaScript.

References

Available upon request.