Eugenie Y. Lai

Vancouver, BC, Canada
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Education

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 2017-April 2017

UBC YOURS Club, *IT Team Executive* — October 2015-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^{th} Edition

Programming

Python, R, JavaScript.

References

Available upon request.