

<p style="text-align: center;">Eugenie Y. Lai</p> <hr/> <p style="text-align: center;">Vancouver, BC, Canada eugenie.y.lai@gmail.com</p>		
Education	<p>University of British Columbia, Vancouver, BC, Canada</p> <p>Bachelor of Commerce</p> <p>Specialization: Combined Major of Business and Computer Science with Coop</p> <p>GPA: overall 4.0/4.0 (90%); CS-only 4.0/4.0 (92%)</p>	<p>September 2015-Present</p> <p>Graduation: May 2021</p>
Awards	<p>2020 Natural Sciences and Engineering Research Council of Canada (NSERC) Undergraduate Student Research Award (USRA) – \$4,500</p> <p>2020 UBC CS Rick Sample Memorial Research Award – \$2,500</p> <p>2019 IVADO/Mila Deep Learning Winter School Scholarship – \$500</p> <p>2019 UBC Sauder School of Business Kenneth G. Young Memorial Scholarship – \$800</p> <p>2018 UBC Sauder School of Business Scholarship (ranked 3/800+ in the faculty) – \$2,370</p> <p>2018 UBC Trek Excellence Scholarship (top 5% with a 90+% course load) – \$1,500</p>	
Publications	<p>O. AlOmeir, E. Y. Lai, M. Milani, and R. Pottinger. <i>Summarizing Provenance of Aggregation Query Results in Relational Databases</i>. [Short paper]. To Appear in IEEE International Conference on Data Engineering, 2021 (ICDE '21).</p> <p>O. AlOmeir, E. Y. Lai, M. Milani, and R. Pottinger. <i>Pastwatch: On the Usability of Provenance Data in Relational Databases</i>. [Short paper]. To Appear in IEEE International Conference on Data Engineering, 2020 (ICDE '20).</p>	
On-Going Work	<p><i>QueryTeller: Sequence-Aware Query Recommendation Using Deep Learning</i>.</p>	
Presentations	<p><i>Developing a Data-Driven Electric Vehicle Strategy in Surrey, BC, Canada</i>. [Co-presented]. Special Interest Group on Knowledge Discovery and Data Mining, Social Impact Session, 2020 (SIGKDD '20).</p> <p><i>Maximizing Utilization of Electric Vehicle Charging Infrastructure in Surrey, BC Using a Data-Driven Model</i>. [Co-presented]. UBC Multidisciplinary Undergraduate Research Conference, 2020.</p> <p><i>UBC Computer Science Undergraduate Program Evaluation and Renewal</i>. [Co-presented with Dr. Rachel Pottinger]. UBC Board of Governors Meeting, 2020.</p> <p><i>Facilitating Users with SQL Query Formulation</i>. UBC Undergraduate Three-Minute Thesis Competition, 2019.</p>	
Research Experience	<p>UBC Data Management and Mining Lab</p> <p>Research Volunteer and Intern (Since May 2020) with Dr. Rachel Pottinger</p> <ul style="list-style-type: none"> Contributed to project ideation, the implementation of the backend system, and the experiments for two short-paper projects as the second author. Currently leading a team of four on a query recommendation project that applies concepts of machine learning to recommend customized SQL queries using query workloads. <p>UBC Sauder Information Systems Division</p> <p>Research Assistant with Dr. Arslan Aziz, Dr. Gene Lee</p> <ul style="list-style-type: none"> Used causal inference methods to evaluate the impact of online platform policy changes. Applied NLP techniques, e.g., TFIDF, n-grams, doc2vec, for matching and sentiment analysis. <p>UBC Data Science for Social Good Program</p> <p>Research Intern with Dr. Raymond Ng, Dr. Kevin Lin</p> <ul style="list-style-type: none"> 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. Enabled data-driven city planning by helping the city select 20 curbside charger locations for a federal funding proposal in September 2019. 	<p>May 2019-Present</p> <p>July 2019-August 2020</p> <p>Summer 2019</p>

Grad Course Projects	CPSC 530L AI Social Impact with Dr. Kevin Leyton-Brown	Spring 2020
	<ul style="list-style-type: none"> • Worked on a team project that uses deep learning techniques to improve irrigation strategies in agriculture as a collaboration with ecohydrologists in UBC Earth and Ocean Sciences. • Found and defined an interdisciplinary research problem from scratch by looking into real-world issues, narrowing down project scope, exploring feasibility, and soliciting domain experts' view. • Extracted, explored, and processed 60GB NASA satellite data used in modelling. 	
	COMM 635 Causal Inference in Information Systems with Dr. Arslan Aziz	Spring 2020
	<ul style="list-style-type: none"> • Used difference-in-difference and fixed effects to evaluate the impact of online platform policy changes on incentivized reviews in small electronic products, e.g., batteries and screen protectors. • Proved and validated with robustness check that after Amazon's ban on incentivized reviews, the number of unnatural reviews maintained while their characteristics became more similar to natural reviews, providing a proof-of-concept for evaluating platform-wide policy effects. 	
Industry Experience	Statistics Canada Ottawa Headquarter	September 2017-April 2018
	Software Developer Intern <ul style="list-style-type: none"> • 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. 	
Other Experience	UBC CS Undergraduate Program Renewal Project, <i>Admin Assistant</i>	August 2019-August 2020
	UBC CPSC 304 Introduction to Relational Databases, <i>Teaching Assistant</i>	Summer 2019
Community Involvement	SIGMOD 2020, <i>Student Volunteer</i>	June 2020
	UBC Data Science for Social Good Program, <i>Student Mentor</i>	June 2020
	UBC CS Student Society (CSSS) Coffee Chat, <i>Mentor</i>	March 2020-May 2020
	UBC CS Tri-Mentoring Program, <i>Student Mentor</i>	September 2018-April 2019
	Greater Vancouver Regional Science Fair, <i>Lab Volunteer</i>	April 2017
	Vancouver Learning Buddy Network, <i>Math Tutor Volunteer</i>	January 2017-April 2017
	UBC YOURS Club, <i>IT Team Executive</i>	October 2015-April 2016
Programming	Python, R, JavaScript.	
References	Available upon request.	