## Laura Greenstreet

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M.Sc. Computer Science, Cornell University
<b>B.Sc. Honours Computer Science, Mathematics Minor</b> , University of British Columbia, GPA: 4.30/4.33
RIENCE —
<ul> <li>Research Assistant, Schiebinger Lab, Department of Mathematics, University of British Columbia</li> <li>Constructed developmental trajectories for biological systems in equilibrium using optimal transport on single-cell data</li> <li>Designed a manifold-learning approach for optics-free spatial transcriptomics</li> </ul>
<ul> <li>Research Assistant, WoRCS Lab, Institute for Resources, Environment, and Sustainability, University of British Columbia</li> <li>Assisted with a global assessment of the functional connectivity of protected areas</li> <li>Created acoustic permeability signatures to aid in the study of vocal amphibians</li> </ul>
<ul> <li>Honours Thesis, Algorithms Lab, Department of Computer Science, University of British Columbia</li> <li>Developed a continuous approximation to the classic learning problem of prediction with expert advice for a small numbers of experts</li> </ul>
<ul> <li>Fellow - Data Science for Social Good Program, University of British Columbia Data Science Institute</li> <li>Integrated six datasets and developed the database for an app helping city planners develop electric vehicle infrastructure</li> <li>Created a model to identify and rank charging sites, developing an objective that incorporates both potential usage and even access to chargers</li> </ul>
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Zhang, S., A. Afanassiev, L. Greenstreet, T. Matsumoto, G. Schiebinger. Optimal transport analysis reveals trajectories in steady-state systems. PLOS Computational Biology, 2021. https://doi.org/10.1371/journal.pcbi.1009466
 Shahan R., C. Hsu, T.M. Nolan, B.J. Cole, I.W. Taylor, L. Greenstreet, et al. A single cell Arabidopsis root atlas reveals developmental trajectories in wild type and cell identity mutants. Developmental Cell, 2021. https://doi.org/10.1016/j.devcel.2022.01.008
 Massri, A.J., L. Greenstreet, A. Afanassiev, A. Berrio Escobar, G.M. Wray, G. Schiebinger, D.R. McClay. Developmental Single-cell transcriptomics in the Lytechinus variegatus Sea Urchin Embryo. Development, 2020. https://doi.org/10.1242/dev.198614

PRESENTATIO	ONS	
2020	<b>Greenstreet, L</b> , and E. Lai. <i>Developing a Data-Driven Electric Vehicle Strategy in Surrey, BC</i> . SigKDD 2020 Social Impact Session.	
2020	<b>Greenstreet, L</b> , and E. Lai. <i>Maximizing Utilization of Electric Vehicle Charging Infrastructure in Surrey, BC using a Data-Driven Model</i> . UBC Multidisciplinary Undergraduate Research Conference.	
Preprints –		
2022	<b>Greenstreet, L.</b> , A. Afanassiev, Y. Kijima, M. Heitz, S. Ichiguro, et al. <i>A DNA-based global positioning system—a theoretical framework for large-scale spatial genomics</i> . Preprint. https://www.biorxiv.org/content/10.1101/2022.03.22.485380v1	
2021	Brennan, A., R. Naidoo, L. Greenstreet, Z. Mehrabi, N. Ramankutty, C. Kremen. <i>Functional Connectivity of the World's Protected Areas</i> . Preprint. https://doi.org/10.1101/2021.08.16.456503	
2021	Hojun, L., J. Ezike, A. Afanassiev, <b>L. Greenstreet</b> , et al. <i>Hematopoiesis at single cell resolution spanning human development and maturation</i> . Preprint. https://www.biorxiv.org/content/10.1101/2021.08.25.457678v1	
Awards —		
2020	NSERC Undergraduate Summer Research Award	
2018	Stanley M Grant Scholarship in Mathematics	
2011	President's Entrance Scholarship	
2011	Governor General's Academic Medal - Bronze	
Work Expe	RIENCE —	
09/2022 - Prese	ent <b>Teaching Assistant</b> , Cornell University, Ithaca, NY	
	<ul> <li>CS 3220 FA22 - Computational Mathematics for Computer Science</li> <li>CS 4220 SP22 - Numerical Analysis: Linear and Nonlinear Problems</li> </ul>	
01/2019 - 05/2	O19 Academic Assistant, University of British Columbia Library, Vancouver, BC	
07/2015 - 08/20	·	
Community	Involvement—	
2020-2021	Mentor, Data Science for Social Good Program, UBC Data Science Institute	
2019	Math Tutor, Emerging Indigenous Scholars Program, University of British Columbia	
2014-2015	Board Member, SEED, Univ. of Washington Sustainability in Housing	
2014-2015	Volunteer, University of Washington Student Farm	

Member, Common Energy, University of British Columbia

2011-2012