## Laura Greenstreet

 $\square: (206)\text{-}673\text{-}1214$   $\boxtimes: laura.greenstreet@gmail.com$ 

EDUCATION -	
2021 - Present	M.Sc. Computer Science, Cornell University
2017 - 2020 2011 - 2012	<b>B.Sc. Honours Computer Science, Mathematics Minor</b> , University of British Columbia, GPA: 4.30/4.33
PUBLICATION	4S —————
2022	Brennan, A., R. Naidoo, <b>L. Greenstreet</b> , Z. Mehrabi, N. Ramankutty, C. Kremen. <i>Functional Connectivity of the World's Protected Areas</i> . Science, 2022. https://doi.org/10.1126/science.abl8974
2021	Zhang, S., A. Afanassiev, <b>L. Greenstreet</b> , T. Matsumoto, G. Schiebinger. <i>Optimal transport analysis reveals trajectories in steady-state systems</i> . PLOS Computational Biology, 2021. https://doi.org/10.1371/journal.pcbi.1009466
2021	Shahan R., C. Hsu, T.M. Nolan, B.J. Cole, I.W. Taylor, <b>L. Greenstreet</b> , et al. <i>A single cell Arabidopsis root atlas reveals developmental trajectories in wild type and cell identity mutants</i> . Developmental Cell, 2021. https://doi.org/10.1016/j.devcel.2022.01.008
2020	Massri, A.J., <b>L. Greenstreet</b> , A. Afanassiev, A. Berrio Escobar, G.M. Wray, G. Schiebinger, D.R. McClay. <i>Developmental Single-cell transcriptomics in the</i> Lytechinus variegatus <i>Sea Urchin Embryo</i> . Development, 2020. https://doi.org/10.1242/dev.198614
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	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
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.
Awards —	
2020 2018	NSERC Undergraduate Summer Research Award Stanley M Grant Scholarship in Mathematics

05/2020 - 08/2021	Research Assistant, Schiebinger Lab, Department of Mathematics, University of British
	Columbia
	<ul> <li>Constructed developmental trajectories for biological systems in equilibrium using optimal transport on single-cell data</li> </ul>
	Designed a manifold-learning approach for optics-free spatial transcriptomics
09/2019 - 09/2020	<b>Research Assistant</b> , WoRCS Lab, Institute for Resources, Environment, and Sustainability, University of British Columbia
	<ul> <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>
09/2019 - 05/2020	<b>Honours Thesis</b> , Algorithms Lab, Department of Computer Science, University of British Columbia
	<ul> <li>Developed a continuous approximation to the classic learning problem of prediction with expert advice for a small numbers of experts</li> </ul>
05/2019 - 08/2019	Fellow - Data Science for Social Good Program, University of British Columbia Data Science Institute
	<ul> <li>Integrated six datasets and developed the database for an app helping city planners develop electric vehicle infrastructure</li> </ul>
	<ul> <li>Created a model to identify and rank charging sites with an objective that incorporates both potential usage and even access to chargers</li> </ul>
Vork Experien	CE —
09/2022 - Present	Teaching Assistant, 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>
06/2021 - 12/2021	Consultant, Vancouver, BC
	<ul> <li>Helped the City of Surrey migrate the app developed during my fellowship at UBC's Data Science Institute from RShiny to PowerBI for better integration with the City's systems.</li> </ul>
01/2019 - 05/2019	<ul> <li>Academic Assistant, University of British Columbia Library, Vancouver, BC</li> <li>Helped develop for-all-x, an open-source introductory logic textbook used in UBC's PHIL 220</li> </ul>

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COMMITMENT	
COMMUNITY	INVOLVEMENT

2022	Volunteer, Research Advocacy Day, Cornell
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	Student Board Member, SEED, Univ. of Washington Sustainability in Housing
2014-2015	Volunteer, University of Washington Student Farm