Laura Greenstreet

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M.Sc. Computer Science, Cornell University
B.Sc. Honours Computer Science, Mathematics Minor , University of British Columbia, GPA: 4.30/4.33
RIENCE —
 Research Assistant, Schiebinger Lab, Department of Mathematics, University of British Columbia Constructed developmental trajectories for biological systems in equilibrium using optimal transport on single-cell data Designed a manifold-learning approach for optics-free spatial transcriptomics
 Research Assistant, WoRCS Lab, Institute for Resources, Environment, and Sustainability, University of British Columbia Assisted with a global assessment of the functional connectivity of protected areas Created acoustic permeability signatures to aid in the study of vocal amphibians
 Honours Thesis, Algorithms Lab, Department of Computer Science, University of British Columbia Developed a continuous approximation to the classic learning problem of prediction with expert advice for a small numbers of experts
 Fellow - Data Science for Social Good Program, University of British Columbia Data Science Institute Integrated six datasets and developed the database for an app helping city planners develop electric vehicle infrastructure Created a model to identify and rank charging sites, developing an objective that incorporates both potential usage and even access to chargers
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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

PRESENTAT	TIONS————————————————————————————————————
2020	Greenstreet, L , and E. Lai. <i>Developing a Data-Driven Electric Vehicle Strategy in Surrey, BC</i> . SigKDD 2020 Social Impact Session.
2020	Greenstreet, L , 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	Greenstreet, L. , 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, L. Greenstreet , 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 EXP	ERIENCE —
09/2020 - Pro	esent Teaching Assistant , Cornell University, Ithaca, NY
01/2019 - 05	Academic Assistant, University of British Columbia Library, Vancouver, BC
07/2015 - 08	72017 Information Technology Coordinator , Tilth Alliance, Seattle, WA
Voluntee	r Experience———————————————————————————————————
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
2011-2012	Member, Common Energy, University of British Columbia