

I am a PhD student at Cornell working with Dr. Carla Gomes to develop AI and optimization methods with sustainability applications. Previously, I worked with Dr. Claire Kremen to scale an analysis of functional connectivity to the global level and with Dr. Geoffrey Schiebinger to develop optimization methods for single-cell genomics.

EDUCATION

- 2021 - Present **Ph.D. Computer Science,**
Cornell University
- 2020 **B.Sc. Honours Computer Science, Mathematics Minor,**
University of British Columbia

PUBLICATIONS

- 2023 Mirka, R., **L. Greenstreet**, M. Grimson, C.P. Gomes. *A New Approach to Finding $2 \times n$ Partially Spatially Balanced Latin Rectangles*, CP, 2023.
- 2022 Brennan, A., R. Naidoo, **L. Greenstreet**, Z. Mehrabi, N. Ramankutty, C. Kremen. *Functional Connectivity of the Worlds Protected Areas*. Science, 2022. <https://doi.org/10.1126/science.abl8974>
- 2022 **Greenstreet, L.**, N.J.A. Harvey, V. Sanches Portella. *Efficient and Optimal Fixed-Time Regret with Two Experts*. ALT, 2022. <https://doi.org/10.48550/arXiv.2203.07577>
- 2021 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>
- 2021 Li, H., J. Ezike, A. Afanassiev, **L. Greenstreet**, et al. *Single Cell Analysis Elucidates the Maturation of Human Stem and Progenitor Cell Function from Fetal through Adult Hematopoiesis*. Blood, 2021. <https://doi.org/10.1182/blood-2021-151090>
- 2021 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>
- 2020 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>

WORKSHOPS AND PRESENTATIONS

- 2023 **Greenstreet, L.**, J. Fan, F. Siqueira Pacheco, Y. Bai, M. Eichemberger Ummus, et al. *Detecting Aquaculture with Deep Learning in a Low-Data Setting*. SigKDD 2023 Fragile Earth Workshop.
- 2020 **Greenstreet, L.**, and E. Lai. *Developing a Data-Driven Electric Vehicle Strategy in Surrey, BC*. SigKDD 2020 Social Impact Session.

AWARDS

2022, 2023	Graduate Teaching Award , Department of Computer Science, Cornell University
2020	Undergraduate Summer Research Award , Natural Sciences and Engineering Research Council of Canada (NSERC)
2019	Data Science for Social Good Fellowship , UBC Data Science Institute
2018	Stanley M Grant Scholarship in Mathematics , UBC Department of Mathematics

RESEARCH EXPERIENCE

05/2023 - Present	Research Assistant , Computational Sustainability Lab, Department of Computer Science, Cornell University
05/2022 - 08/2022	Research Assistant , Computational Sustainability Lab, Department of Computer Science, Cornell University
05/2020 - 08/2021	Research Assistant , Schiebinger Lab, Department of Mathematics, University of British Columbia
09/2019 - 09/2020	Research Assistant , WoRCS Lab, Institute for Resources, Environment, and Sustainability, University of British Columbia
05/2019 - 08/2019	Fellow - Data Science for Social Good Program , University of British Columbia Data Science Institute

WORK EXPERIENCE

09/2022 - 05/2023	Head Teaching Assistant , Cornell University, Ithaca, NY <ul style="list-style-type: none">• CS 2700 - Excursions in Computational Sustainability• CS 4700/4701 - Foundations/Practicum in Artificial Intelligence
09/2021 - 05/2022	Teaching Assistant , Cornell University, Ithaca, NY <ul style="list-style-type: none">• CS 4220 - Numerical Analysis: Linear and Nonlinear Problems• CS 3220 - Computational Mathematics for Computer Science
01/2019 - 05/2019	Academic Assistant , University of British Columbia Library, Vancouver, BC
07/2015 - 08/2017	Information Technology Coordinator , Tilth Alliance, Seattle, WA

COMMUNITY INVOLVEMENT

2023	Organizer , NeurIPS Computational Sustainability Workshop
2023	Mentor , BURE Undergraduate Research Program, Cornell
2023	Volunteer TA , AI for Science Program, Cornell
2020-2021	Mentor , Data Science for Social Good Program, UBC Data Science Institute
2019	Tutor , Emerging Indigenous Scholars Program, University of British Columbia