

Education

McGill University & Mila - Quebec AI Institute - Montreal, Canada	Sep 2021 - Present
PhD in Computer Science, supervised by Prof. David Rolnick	
McGill University - Montreal, Canada	Sep 2014 - May 2017
BSc in Physics, thesis supervised by Prof. Natalya Gomez	

Experience

Machine Learning Engineer, NASA Harvest - Remote	Apr 2020 - Present
Researching machine learning and remote sensing for agriculture, supervised by Prof. Hannah Kerner	
Machine Learning Research Intern, Small Robot Company - Remote	Summer 2022
Researched semi-supervised object detection for agriculture, supervised by Dr. Thomas Walters	
Machine Learning Engineer, Okra Solar - Phnom Penh, Cambodia	Sep 2019 - Aug 2021
Developed data and machine learning pipelines for off-grid solar energy systems	
Researcher, European Center for Medium Range Weather Forecasting - Remote	Summer 2019
Researched applications of machine learning applied to drought prediction in Kenya	
Machine Learning Engineer, Drop Technologies - Toronto, Canada	Oct 2017 - May 2019
Developed and deployed end to end machine learning pipelines for Fortune 500 clients in various domains	

Publications

TIML: Task-Informed Meta-Learning for agriculture Gabriel Tseng, Hannah Kerner, David Rolnick <i>Agriculture for AI and Food Security Workshop at AAAI 2022</i>
CropHarvest: A global dataset for crop type classification Gabriel Tseng, Ivan Zvonkov, Catherine Nakelembe, Hannah Kerner <i>Conference on Neural Information Processing Systems (NeurIPS) 2021, datasets and benchmarks track</i>
Learning To Predict Crop Type From Heterogeneous Sparse Labels Using Meta-Learning Gabriel Tseng, Hannah Kerner, Catherine Nakalembe, Inbal Becker-Reshef <i>EarthVision workshop at the conference on Computer Vision and Pattern Recognition (CVPR) 2021</i>
Annual and in-season mapping of cropland at field scale with sparse labels Gabriel Tseng, Hannah Kerner, Catherine Nakalembe, Inbal Becker-Reshef <i>Climate Change and AI workshop at the Conference on Neural Information Processing Systems (NeurIPS) 2020</i>
Rapid Response Crop Maps in Data Sparse Regions Hannah Kerner, Gabriel Tseng, Inbal Becker-Reshef, Catherine Nakalembe, Brian Barker, Blake Munshell, Madhava Paliyam, Mehdi Hosseini <i>Humanitarian Mapping workshop at the SIGKDD Conference on Knowledge Discovery and Data Mining 2020</i>
A Machine Learning Pipeline to Predict Vegetation Health Thomas Lees, Gabriel Tseng, Simon Dadson, Alex Hernández-Garcia, Clement G. Atzberger, Steven Reece <i>Climate Change and AI workshop at the International Conference on Learning Representations (ICLR) 2020</i>

Awards and Grants

Leadership in Environmental And Digital innovation for Sustainability (LEADS)	2021
European Center for Medium Range Weather Forecasting Summer of Weather Code	2019
James McGill scholarship	2014

Additional Interests

Endurance sports (ran 3 ultra-marathons & a DIY-Ironman), rock climbing, SCUBA diving (advanced open water diver)
Languages: English (fluent), French (fluent), Mandarin (basic)