

Education

McGill University & Mila - Quebec AI Institute - Montreal, Canada PhD in Computer Science, supervised by Prof. David Rolnick	September 2021 - Present
McGill University - Montreal, Canada Bachelor of Science in Physics	September 2014 - May 2017

Experience

Machine Learning Engineer, NASA Harvest - Remote Researching machine learning and remote sensing for agriculture, supervised by Prof. Hannah Kerner	Mar 2020 - Present
Machine Learning Engineer, Okra Solar - Phnom Penh, Cambodia Developed data and machine learning pipelines for off-grid solar energy systems	Sep 2019 - Aug 2021
Researcher, European Center for Medium Range Weather Forecasting - Remote Researched applications of machine learning applied to drought prediction in Kenya	May - Sept 2019
Machine Learning Engineer, Drop Technologies - Toronto, Canada Developed and deployed end to end machine learning pipelines for Fortune 500 clients in various domains	Oct 2017 - May 2019
Research Assistant, McGill University - Montreal, Canada Investigated ice sheet behaviour using global ice distribution models, supervised by Prof. Natalya Gomez	Jan - Aug 2017

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) 2020</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)