

TOM WRIGHT

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EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Cambridge, MA

Master of Business Analytics, Sloan & Operations Research Center (5.0 GPA)

Aug 2022 - Aug 2023

- Coursework: Integer Optimization, Sensorimotor Learning, Machine Learning, Optimization Methods, Analytics Lab
- Sensorimotor Learning: Applied reinforcement learning to mixed-integer problems found in power systems
- Integer Optimization: Learning-based cut generation utilized for warm starting two-stage robust optimization problems
- Optimization: Built a mixed-integer model optimizing class happiness while ensuring everyone passes
- Leadership: Elected Class President of MBAn Class of 2023, Sloan Senate and Health & Wellness Committee member

MCGILL UNIVERSITY

Montreal, QC

Bachelor of Science in Statistics and Computer Science

Sep 2017 - May 2022

- Coursework: RL, Applied ML, Network Science, Probabilistic Programming, Stochastic Processes, Algorithm Design
- Machine Learning for Climate Change Project: Studied weather's effect on probabilistic electricity load forecasts
- J. W. McConnell Scholar - Major Renewable Academic Scholarship

TECHNICAL SKILLS

Julia | JuMP | Gurobi | Python | PyTorch | TensorFlow | Docker | R | AWS | Git | Java | SQL | HTML | CSS | JavaScript

EXPERIENCE

ENODA

Edinburgh, UK

Data Scientist

Nov 2023 - present

- Designing and developing signal control algorithms combining ML and optimization to enable self-balancing grids
- Building data science standards, codebases, documentation and roadmaps preparing for team expansion

MIT SLOAN | HANDLE GLOBAL

Cambridge, MA

Data Scientist, Capstone Project

Feb 2023 - Aug 2023

- Restructured data, aggregating to monthly level, imputing missing data and calculating asset fleet statistics
- Applied various machine learning and time series models to forecast budget, improving baseline by 74%
- Built a binary optimization model reducing asset categories past useful life on average by 68%

MIT OPERATIONS RESEARCH CENTER

Cambridge, MA

Research Assistant to Professor Alexandre Jacquillat

Sep 2022 - Aug 2023

- Applying stochastic-robust optimization to supply chain management tasks for a large e-commerce company
- Conducting sensitivity analyses on model parameters to tune and validate results
- Architecting mixed-integer, multi-objective problem formulations to meet client requirements

MIT SLOAN | BALYASNY ASSET MANAGEMENT (BAM)

Cambridge, MA

Analytics Lab Team Member

Sep 2022 - Dec 2022

- Partnered with BAM's energy trading desk to enhance physical weather model uncertainty predictions
- Applied time series, sparse regression and tree-based techniques, improving performance over baselines by up to 55%
- Analyzed geographic and temporal relationships via feature differencing, interpretable modeling and variable importance

MONTREAL INSTITUTE OF LEARNING ALGORITHMS | MCGILL

Montreal, CAN

Research Assistant to Professor David Rolnick and Priya Donti

Sep 2021 - Apr 2022

- Researched deep learning frameworks for the Unit Commitment problem found in power systems research
- Spearheaded project first stage, extending work on deep learning for nonlinear optimization to an integer setting

INVENIA LABS

Winnipeg, CAN / Cambridge, UK

Research Intern

May 2021 - Aug 2021

- Led development of open-source code implementing an efficient class of multi-output Gaussian Processes
- Increased function speeds by up to 75 times while cutting down lines of code by a factor of 10
- Collaborated with open source communities while guaranteeing in-house requirements were met

Software Engineer Intern

May 2020 - Dec 2020

- Developed cloud-computing infrastructure performance to enhance use of AWS tools

ADDITIONAL INFORMATION

- Languages: English (native), French (fluent)
- Member of Youth Advisory Board educating campus communities on issues relating to sexual violence (2019-2021)
- Ultimate Frisbee: World Championships (2018), UK Championships (2021), Canadian Championships (2016-2021)
- Interests: Icelandic horse rider, aspiring rock climber, birthday cake baker, amateur singer-songwriter, avid traveler