TOM M. RAGONNEAU

Ph.D. Student, Computational Mathematics and Optimization

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EDUCATION

Ph.D. Student in Computational Mathematics

The Hong Kong Polytechnic University

Sep. 2019 – Ongoing Hong Kong

- Department of Applied Mathematics.
- Supervised by Dr. Zaikun Zhang and Prof. Xiaojun Chen.
- Supported by the Research Grants Council (RGC) of Hong Kong, under the Hong Kong Ph.D. Fellowship Scheme (HKPFS).

M.Sc. Degree in Scientific Computing

Toulouse INP, E.N.S.E.E.I.H.T.

Sep. 2018 - Jul. 2019 Toulouse, France

- Graduated in Performance in Software, Media and Scientific Computing (PSMSC).
- GPA: 4.0

M.Eng. Degree in HPC and Big Data

Toulouse INP, E.N.S.E.E.I.H.T.

Sep. 2016 - Jul. 2019 Toulouse, France

- Department of Computer Science and Applied Mathematics.
- Majoring in optimization, HPC and machine learning.
- GPA: 3.9

WORKING EXPERIENCE

Research Assistant

The Hong Kong Polytechnic University

Mar 2019 – Sep. 2019 Hong Kong

- Department of Applied Mathematics.
- M.Eng. final-year internship.

Machine Learning Research

Toulouse INP, E.N.S.E.E.I.H.T. & ALTRAN

Jan. 2019 – Mar. 2019 Toulouse, France

- Deep learning approach for estimation of the nearshore bathymetry.
- M.Eng. final-year project.

Machine Learning Engineering

Axians Cloud Builder

Jun. 2018 – Sep. 2018 Toulouse, France

- Prediction of the load of an HPC cluster (National Centre for Space Studies) managed by GPFS via machine learning tools.
- M.Eng. second-year internship.

RESEARCH INTERESTS

Mathematical optimization and its application, mainly in

- methods based on inaccurate information,
- methods for large-scale problems,
- methods for noisy problems,
- derivative-free methods.

COMPUTING SKILLS

Python | MATLAB | Julia | Fortran | C/C++ | Java | Bash | Javascript | HTML/CSS | LaTeX

ACHIEVEMENTS

- Awardee of the highly-selective Hong Kong Ph.D. Fellowship Scheme (HKPFS), provided by Research Grants Council (RGC) of Hong Kong.
- Part of the PDFO developer team, a cross-platform package providing MATLAB and Python interfaces for using late Professor M. J. D. Powell's derivative-free optimization solvers.

LANGUAGES

English
French
German

REFEREES

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