

# 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 📍 Hong Kong

- 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  $\text{\LaTeX}$

## 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: fluent
- French: native
- German: elementary

## REFEREES

### Dr. Zaikun Zhang

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TU824, Yip Kit Chuen Bldg.,  
The Hong Kong Polytechnic University,  
Hung Hom, Kowloon, Hong Kong.

### Prof. Serge Gratton

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