Tom M. **Ragonneau**, Ph.D. Candidate
Computational Mathematics, The Hong Kong Polytechnic University

✉ tom.ragonneau@connect.polyu.hk   🏠 ragonneau.co

📍 TU834, The Hong Kong Polytechnic University, Kowloon Hong Kong, China   📞 (+852) 6995-7651

Education

Ph.D., The Hong Kong Polytechnic University, Hong Kong, China   2019–Present
Supported by the University Grants Committee of Hong Kong under the Hong Kong Ph.D. Fellowship Scheme.
Supervised by Dr. Zaikun Zhang and co-supervised by Prof. Xiaojun Chen.
Subject of the dissertation: Model-based derivative-free optimization methods and software.

M.Sc., Toulouse INP-ENSEEIHT, Toulouse, France   2018–2019
Graduated in Performance in Software, Media, and Scientific Computing.

M.Eng., Toulouse INP-ENSEEIHT, Toulouse, France   2016–2019
Graduated in High Performance Computing and Big Data.

CPGE, Carnot high-school, Dijon, France   2014–2016
Two-year program of profound studies for acquiring elementary but crucial scientific knowledge.

Working experience

Research Assistant, The Hong Kong Polytechnic University, Hong Kong, China   2019
Early development of PDFO, a Python and MATLAB software for using late Prof. M. J. D. Powell's derivative-free optimization solvers (including UOBYQA, NEWUOA, BOBYQA, LINCOA, and COBYLA).

Trainee Engineer, Axians Cloud Builder, Toulouse, France   2018
Prediction of the load balancing of a computing cluster managed by a GPFS system via machine learning tools.

Publications

Peer-reviewed journals

[1]   A deep learning approach for estimation of the nearshore bathymetry
      R. Benshila, G. Thoumyre, M. Al Najar, G. Abessolo Ondoa, R. Almar, E. Bergsma, G. Hugonnard, L. Labracherie, B. Lavie, T. M. Ragonneau, S. Ehouarn, B. Vieublé, and D. Wilson
      J. Coast. Res. 95.sp1 (2020), pp. 1011–1015

Presentations

[1]   PDFO: a cross-platform MATLAB/Python interface for Powell's derivative-free optimization solvers
      SIAM Conference on Optimization (OP21), online, July 21, 2021

Teaching

Revision Tutorial Sessions, The Hong Kong Polytechnic University, Hong Kong, China   2020–2021
Calculus, Probability & Statistics, and Linear Algebra.
Examination Invigilations, The Hong Kong Polytechnic University, Hong Kong, China   2019–Present
Monitored examinations and marked assignments for various subjects.

Languages

Mother tongue   **French**

Other languages	Understanding			Speaking			Writing	
	Listening		Reading		Interaction		Production		Writing
English	C2 Fluent		C2 Fluent		C1 Fluent		C1 Fluent		C1 Fluent
German	B1 Independent		B1 Independent		B1 Independent		A2 Basic		B1 Independent
Cantonese	A2 Basic		A1 Basic		A1 Basic		A1 Basic		A1 Basic

Common European Framework of Reference for Languages (CEFR)

Personal interests

Science, technology, music, movies, hiking, scuba diving.