Tom M. **Ragonneau**, Ph.D. Candidate

Computational Mathematics, The Hong Kong Polytechnic University

tom.ragonneau@connect.polyu.hk ragonneau.github.io

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	
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