Tom M. Ragonneau, Ph.D. Candidate

Computational Mathematics, The Hong Kong Polytechnic University

TU834, The Hong Kong Polytechnic University, Kowloon Hong Kong, China 2 (+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

Writing

Fluent

Independent

Basic

C1

В1

Α1

Monitored examinations and marked assignments for various subjects.

Languages

Mother tongue

French

Other languages

English

German

Cantonese

Understanding Speaking Interaction Production Listening Reading C2 Fluent C2 Fluent C1 Fluent C1 Fluent В1 Independent В1 Independent В1 Independent Α2 Basic Basic A2 Basic Α1 Basic Α1 Basic Α1

Common European Framework of Reference for Languages (CEFR)

Personal interests

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