

# PIERRE SEGONNE

MSc and Master of Engineering Student

✉ pierre.segonne@protonmail.com | 📞 (+33) 6 46 04 04 54 | 🌐 pierre-segonne.fr | 📷 pierresegonne | in psegonne

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## EDUCATION

### DTU (Denmark's Technical University)

MSc Mathematical Modelling and Computation - Applied Mathematics

September 2018 – December 2020

Copenhagen, Denmark

Double degree program with École Centrale Paris. DTU is a leading European technical university.

- GPA: 10.6/12
- Subjects: Time Series Analysis, Deep Reinforcement Learning, Constrained Optimization, Multivariate Statistics

### USYD (The University of Sydney)

Exchange Semester

August 2019 – December 2019

Sydney, Australia

- Subjects: Advanced Machine Learning, Deep Learning and Complex Systems

### École Centrale Paris (CentraleSupélec)

Master of Engineering

September 2015 – December 2020

Paris, France

École Centrale Paris (now CentraleSupélec) is one of France's most renowned postgraduate engineering school, focused on training top-level generalist engineers.

- Subjects: Functional Analysis, Statistics, Probability Theory, Partial Differential Equations, Software Engineering, Quantum Physics

### Lycée Sainte Geneviève

Preparatory School (CPGE) - PCSI/PC\*

September 2013 – June 2015

Versailles, France

The CPGE program is an intensive two-year undergraduate course specialized in sciences, preparing for the highly selective entrance exams of the French "Grandes Écoles".

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## EXPERIENCE

### Torm

Student Assistant

November 2018 – June 2019

Hellerup, Denmark

- Development of statistical learning models to understand hull fouling mechanisms. [Scikit Learn]
- Database Management and automation scripts. [SQL]

### MatchPint

Software Engineering Intern

Mars 2018 – August 2018

London, United Kingdom

- Conception and implementation of a lottery algorithm to maximize user engagement. Over 100 000 users over two months. [PHP]
- Responsible for the development of the company new CRM. [React, Redux]

### Digital Tech Year

Software Engineering Intern

September 2017 – February 2018

Paris, France

The Digital Tech Year program trains the most tech talented students from CentraleSupélec through three different projects.

- Project1: Development of an IoT application to help shop keepers handle cash deposits (BPCE). [MongoDB, Angular, Express, Android]
- Project2: Creation of an AI powered internal search engine for a major French bank (Credit Agricole). [Angular, Elasticsearch, NLTK]
- Project3: Conception and implementation of a new platform and algorithm for courses selection and assignation for future CentraleSupélec students. [React, Node, Sequelize]

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## PROJECTS AND ACTIVITIES

**Rubigo** [Angular, Prisma (GraphQL), AWS, Pytorch, Django]

<http://rubigo.dk/>

Creation of a smart helmet and a platform to help ship owners remotely inspect their vessels and automatically detect corrosion and damage through computer vision. Won Hardtech Entrepreneurship competition (DTU).

**Volunteering (Cuestionarix)** [Python, Flask]

<https://www.cuestionarix.com/>

Cuestionarix is a start-up which aims to make higher education more accessible in Ecuador by providing online personalized courses. I volunteered to help them analyse the behavioral data of the students using their platform to increase studying effectiveness.

**Ski Club Centrale Paris** President

<https://wacs.cs-campus.fr/association>

Organisation of ski trips for the students of CentraleSupélec, with up to 170 participants. Participation in student ski competitions.