

# Paul Dubois

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## EDUCATION

### 2019-2020: 4<sup>th</sup> year MSci in Mathematics University College London

Courses: Advanced Modelling Mathematical Techniques, Spectral Theory, High-Performance Computing  
Representation Theory, Waves and Wave Scattering, Evolutionary Games and Population Genetics  
Project in Mathematics on Algebraic Number Theory

### 2018-2019: 3<sup>rd</sup> year MSci in Mathematics University College London

Grade average: 85%

Courses: Functional Analysis, Graph Theory and Combinatorics, Algebraic Number Theory, Probability  
Measure Theory, Galois Theory, Multivariable Analysis, Elliptic Curves  
Differential Geometry\*, Commutative Algebra\*

*1<sup>st</sup> Prize for best Poster of Department of Mathematics at UCL*

### 2017-2018: 2<sup>nd</sup> year MSci in Mathematics University College London

Grade average: 82%

Courses: Real Analysis, Groups and Rings Algebra, Number Theory, Mathematical Methods IV  
Complex analysis, Linear Algebra, Fluids Mechanics, Mathematical Methods III  
Probability and Statistics\*

### 2016-2017: 1<sup>st</sup> year MSci in Mathematics University College London

Grade average 86% (rank 6)

Courses: Analysis I and II, Algebra I and II, Math. Methods I and II, Applied Math., Newtonian Mechanics  
*Undergraduate 1<sup>st</sup> year Prize in Mathematics* (delivered to top 10 students)

### 2015-2016: 12<sup>th</sup> Grade at Jean-Pierre Vernant High School, Pins-Justaret (France)

2016 - French scientific Baccalaureate, math specialty - with highest honors (Mention Très Bien)

2015 - Scholarship Aptitudes Test (SAT), Score in math: 740/800 (top 3%)

## RESEARCH EXPERIENCE

**Jun-Sept 2019: Internship at Airbus**, participated in creation of new digital tools

**Nov 2018 Hackathon** "Porticode 3.0" at University College London. Prize for best 90's website

**Jan-Mar 2018: Research Assistant** (at distance) for Susana Vasserman (PhD Candidate at Harvard University, Economics Department) doing Textual Data Analysis with Python

**Aug-Sep 2017: Internship on artificial intelligence & logic** at research lab in computer science "IRIT" of University of Toulouse (France) under supervision of Professor Martin Strecker

**Feb 2017: Winner of Innovation Competition** « Innovez » of the French scientific review "Science et Vie Junior" for a Morse decoding machine (SVJ n°329) - 1000€

## VOLUNTEERING AND WORK EXPERIENCE

**Jun-Jul 2018: Kitchen clerk** in the restaurant "La Plage", Venerque (France)

**Jun-Jul 2017: Dishwasher** in the restaurant "La Plage", Venerque (France)

**Since 2014: Active member in educative FabLab** info@lèze: Give free courses to primary school students

**2011-2018: European Scouting:** Chief (2016-2018), Leader of treetop patrol (2015-2016)

## PROGRAMMING KNOWLEDGE

GitHub repository: <https://github.com/pauldubois98>

Web Page: <https://pauldubois98.github.io/>

- **Python:** Oriented Object Programming (OOP), Web scraping, Multi-Threading, Graphical Interfaces (with Tkinter & PyGame), Data analysis, general advanced knowledge
- **HTML, CSS & JavaScript** (Web)
- **Java & Kotlin** (mostly for *Android Apps*)
- **Latex** (and presentations with *Beamer*)
- **C/C++** (mostly for *hardware electronics*)

## LANGUAGES

**French:** Native Speaker

**English:** Fluent

\*course not for credits because only 4 allowed by term