# PERSONAL INFORMATION Pádraig Ryan

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### **PROFILE**

### About Me

I am a Third Year Mathematics student at University College Dublin. Keenly interested in Computing Technology. Hobbies include Board Games, Electronics and Music.

### **EDUCATION**

### 2018 - Current BSc (Hons) Mathematics

School of Mathematics and Statistics, University College Dublin.

- Third Year, Autumn Semester GPA of 3.80/4.20 (most recent).
- Second Year GPA of 3.85/4.20.
- First Year GPA of 3.97/4.20.
- Relevant modules completed: Computational Science (A+), Probability Theory (A+), Fields, Waves and Light (A+), Introductory Quantum Mechanics (A+), Vector Integral & Differential Calculus (A+), Oscillations in Mech Systems (A-), Inferential Statistics (A), Advanced Linear Algebra (A).

### Secondary School 2012 – 2018

Ardscoil Rís, Limerick.

- Achieved 613 points in the Leaving Certificate.
- Relevant subjects: Mathematics (H1), Applied Maths (H1), Physics (H1), Design and Communication Graphics (H1), Chemistry (H1).

### SKILLS AND COMPETENCIES

- IT Experience using Python (SciPy) and Java,
  - Knowledge of C and Javascript (including Node.is).
  - · Experience using Raspberry Pi, Arduino and Intel Edison.
  - Versed in the LATEX typesetting system.
  - · Competence with Linux operating systems, having used Ubuntu, Fedora, Arch Linux.
  - · Currently maintaining my own Git server, to manage projects across multiple machines.
  - Proficient using CAD Software, specifically, Solidworks and FreeCAD.

### **Team Working**

- Adept at working as part of a team in a stressful environment, such as during the Mathematical Contest in Modeling and at the IAMTA Senior Applied Maths Quiz.
- Experience completing long term group projects, for example, for the Principals of Scientific Inquiry (A) module, SciFest and the BT Young Scientist.

Problem Solving • Evidenced by competitions entered and results achieved in the Mathematical Contest in Modeling (Honorable Mention), the IAMTA Senior Applied Maths Quiz (first place) and the All-Ireland Programming Olympiad (fifth place).

- Initiative Self-taught LATEX, and Java, Javascript and C.
  - · Specified and built my own desktop PC. This included sourcing, evaluating and assembling components. Upgraded the electronics of my 3D printer.
  - · Teaching myself to play the mandolin.

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## AWARDS AND **ACHIEVEMENT**

### Competitions COMAP MCM 2020

- Received an Honorable Mention in the 2020 COMAP Mathematical Contest in Modeling.
- · Over the course of 4 days, our team formulated a data driven model to determine the migratory drift of North Atlantic Mackerel and Herring due to increased Sea Surface Temperatures (SST) as a result of Climate Change.

### IAMTA National Senior Applied Maths Quiz

· Won the national competition in 2018.

### All-Ireland Programming Olympiad

· Placed fifth and tenth in 2017 and 2018 respectively.

### All-Ireland Linguistics Olympiad

• Placed within the top one hundred in 2017 and 2018.

### SciFest

• My team won the Limerick Regional Boston Scientific Medical Devices Award at SciFest in 2015.

### BT Young Scientist

• Participated in the BT Young Scientist Competition in 2015, where we built a Android App to track the user's health related data, storing it in a SQLite Database.

### INTERESTS AND HOBBIES

### Electronics

- · Remodelled a Remote Controlled Boat to be controlled over Wi-Fi from a web browser. This used an Intel Edison development board, running a Node.js server to control Brushless DC motors using GPIO and a driver board.
- · Overhauled a 3D printer's electronics to use an Arduino and a Raspberry Pi, to improve the accuracy and safety of the printer.
- Participated in the CanSat Competition, where we engineered a payload to collect atmospheric and kinematic data, which was transmitted to the ground over RF in real time.

Music • Enjoy playing the fiddle and the mandolin.

- Other Interests Board Games
  - Travel
  - Reading

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