

# BARRY O'DONNELL

## CONTACT DETAILS

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## EDUCATION

2017 - 2021

**NUI Galway, Galway City**

**BSc. Physics with Theoretical Physics**

Completed 3<sup>rd</sup> year, May 2020 with 1<sup>st</sup> class honours (88.58%):

- Awarded NUIG Scholar Award for these results

Completed 2<sup>nd</sup> year, May 2019 with 1<sup>st</sup> class honours (80.92%):

- Awarded NUIG Scholar Award for these results

Completed 1<sup>st</sup> year, May 2018 with 1<sup>st</sup> class honours (80.92%):

- Awarded NUIG Scholar Award for these results

## EXPERIENCE / PROJECTS

**PLANCKS Kent Preliminaries, Online**

**Summer 2020**

Participated in physics competition with my fellow colleagues. Our team "The Physicists" placed 10th out of ~40 teams. The competition consists of 10 tough physics-based problems, with topics ranging from Quantum Mechanics to Rigid Body Motion.

**CERN Webfest,**

**Summer 2020**

Participated in 'hackathon' style event hosted by CERN. Title of our project was '{Hello, friend}.' The project involved using Ruby-on-Rails, HTML, and JavaScript. Goal of project was to connect programmers around the world, and to help people source programmers for projects.

**Intern, IPIC, Tyndall National Institute, Cork City  
Summer 2019**

Title of the project was 'Using machine learning to determine transmission distance by observing eye diagrams.' The project involved using machine learning through Python using a library called 'Keras.' Produced poster to compliment the project.

**Waiter, The Arches, Adare, Co. Limerick  
Summer 2018**

While working in The Arches, I looked after guests, was tasked with looking after tables (cleaning, setting up, preparing for dinner etc.) and general upkeep of the restaurant such as sweeping or cleaning.

**SKILLS**

- Computer Skills;
  - Adept in Python,
  - Competent in machine learning through 'Keras', and basic knowledge of 'PyTorch',
  - Proficient in C language,
  - Basic knowledge of HTML and Ruby-on-Rails.
- Great communication skills,
- Determined worker,
- Punctual and organized individual.

**ACHIEVEMENTS**

- Awarded NUIG Scholar for my performance in my 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> year results. This is awarded to students who are in the top 7% of their year in their respective college (in my case, the College of Science.)
- Was Class Rep. for my fellow Physics students in 2<sup>nd</sup> Year. This involved monthly meetings and coordination with other Class Reps. to ensure fair treatment for our colleagues.
- Received an Academic Student award for my performance in the Leaving Cert in 2017.
- In 2014, I came 2<sup>nd</sup> place in a competition about Shannon Foynes Port Company wherein I had to put together a slideshow and give a presentation to a large crowd.
- Sailed to France from Foynes, Co. Limerick at the age of 14.
- Avid computer enthusiast, built my first computer when I was 13.

**REFERENCES AVAILABLE UPON REQUEST**