

Daniel Murphy

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Authorised to work in UK and EU.

EDUCATION

MSci in Mathematics, Imperial College London

Sep 2023 – Jun 2027

- Year 1 Average: 83.81% (First Class Hons)
- Relevant modules: Probability and Statistics, Introduction to Computation, Calculus and Applications, Linear Algebra and Groups, Analysis, Introduction to Applied Mathematics, Individual Research Project (Percolation and Renormalisation)

European School Luxembourg I

European Baccalaureate

Sep 2010 - Jun 2023

- Overall 93.87%
- Mathematics, Economics, Physics, German, English
- Academic Excellence Award in Mathematics

EXPERIENCE

Jane Street – First Year Trading and Technology Programme (FTTP)

March 2024

- Learn about trading and technology at Jane Street through a series of interactive classes and trading games.
- Built a program to trade in a simulated market within a team - ranked 3rd out of 16 teams.

Morgan Stanley – Technology Spring Insight

April 2024

- Learn about technology at Morgan Stanley through talks and classes.
- Built a program to trade on a simulated Foreign Exchange Market during Brexit crisis.

Luxembourg Informatics Olympiad

2023 - Present

Organiser, Problem-Setter, Coach

- Collaborate with other organisers to prepare problems and provide trainings and camps to students.
- Create interesting problems for the competition and developed solutions.
- Teach students to improve problem solving skills and apply algorithms and data-structures.
- Deputy Team Leader at EGOI 2024 and IOI 2024.

ACHIEVEMENTS AND AWARDS

International Olympiad in Informatics – Bronze Medallist in 2023

2021, 2022, 2023

- Solved complex problems and had to come up with innovative ideas under time pressure. Ranked 131st worldwide.
- Participant in 2022 and 2021
- Participated in a Jane Street Estimathon and attended a lecture on blockchains and state channels by Nomadic Labs. Attended Huawei Talk “Leaving No One Behind in the Digital World” on making technology more accessible.

Western European Olympiad in Informatics / Benelux Olympiad in Informatics

2020 - 2023

- Benelux Olympiad in Informatics: 2 Silver medals (4th Place) and 1 Bronze medal
- Western European Olympiad in Informatics: Participant 2023

Luxembourg Informatics Olympiad

2021 - 2023

- 1st Place in 2023 and 2022 (Perfect Score), 3rd Place in 2021
- Participated in interactive training sessions on improving algorithmic problem-solving skills and improving communication on technical subjects.

Cybersecurity Week Luxembourg: Most Promising Young Talent Award

2020 and 2022

- Awarded as part of team “LetzPwn” for performance at European Cybersecurity Challenge.

European Cybersecurity Challenge – 26th Place (Team)

2022

- Worked together as a part of team Luxembourg to tackle security-related problems in various domains such as web security, cryptography, reverse engineering and more.
- Interacted with professionals working in the fields of Cybersecurity, Banking and Cryptocurrencies.

ADDITIONAL SKILLS & OTHER

- **Programming:** Python, C/C++, Linux, (Haskell, R)
- **Languages:** English (native), German (native), French (basic)
- Performed in high-school theatre plays.
- Play tennis. Ball kid at the Davis Cup 2018 in Luxembourg.
- Part of Imperial Social Dancing, dancing Salsa and Bachata
- Enjoy doing Puzzles, Competitive Programming, CTFs