

Edward Stevenson

edward.stevenson100@gmail.com · +44 7944 250203 · London, UK

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EDUCATION

- 2024 – now **PhD student at the Institute of Astronomy, University of Cambridge**
Part of the CDT in Data Intensive Science programme. This includes graduate courses in statistics, machine learning, and research computing; and a six-month industry placement in a data science company.
- 2019 – 2023 **Msci + BA in Astrophysics (Natural Sciences), University of Cambridge**
First class with distinction (90/100).
Awarded the Part III Institute of Astronomy prize for the top-ranked student.
Awarded the Edwyn Charles Hart Memorial Prize for the 'top performer' in Churchill College.
Firsts in all exams across all years.
Awarded Churchill prize scholarships in years 2,3, and 4 (not given in year 1 due to COVID).

RESEARCH EXPERIENCE

- Sep – Nov 2023 **Research Internship, Leverhulme Centre for Life in the Universe, University of Cambridge**
First-author paper published in MNRAS, extending work done in Master's research project:
Stevenson E. T., Ribas Á., Speedie J., Booth R. A., Clarke C. J., *Searching for planet-driven dust spirals in ALMA visibilities.*
- 2022 – 2023 **Master's Research Project**
Supervisors: Prof. Cathie Clarke, Dr. Álvaro Ribas.
Title: Which planets can hide in apparently smooth protoplanetary discs?

OTHER RELEVANT EXPERIENCE

- Oct 2023 – Mar 2024 **Supervisor for 3rd year Astrophysics students, Institute of Astronomy, University of Cambridge**
Taught groups of students the 'Stellar Dynamics and Structure of Galaxies', and 'Topics in Astrophysics' courses. Marked problem sheets and wrote model solutions. Completed university supervisor training.

- Jul – Sep 2023 **Internship, Jane Street Capital** – London, UK
 Training and internal projects involving: corporate strategy, quantitative trading strategies, finance, product management, and programming in Python and PostgreSQL.
- 2021 – 2022 **Various computing projects**
 Computational Mathematics projects (CATAM): Simulating accretion discs; ionisation of interstellar gas near a star; Matrices over finite fields; numerical methods for solving differential equations
 Physics projects: Simulation of elliptical orbits; properties of gases via a hard-sphere elastic collisions model; Eigenfunction expansion in a Sturm-Liouville ODE; Gauss-Jordan elimination; solutions of Laplace’s equation using Jacobi and Gauss-Seidel methods; root finding using numerical methods; solution of ODEs using Euler and RK4 methods; numerical integration methods.
- 2019 **Work experience, Centre for Cancer Immunology, Southampton University**
 Performed differential gene expression data analysis using bioinformatics software (EdgeR and DESeq2).
- 2018 – 2019 **A-level Mathematics mentoring, Slough and Eton School**
 Mentored struggling A-level mathematics students as part of a community service scheme.

OTHER INTERESTS

Sports

Boxing – Cambridge University Amateur Boxing Club ‘blues’ squad; local amateur squad (All Stars Boxing Gym).

Football – Churchill College Football Club 1st XI.

Chess – Taught students in-person and on lichess platform; played for Cambridge University and board 1 for Churchill College.

Scuba – PADI open water diver.

Skiing – CSIA level 1 instructor.

Volunteering

Fundação Tartaruga, Boa Vista, Cabo Verde (4 weeks):

Volunteered at Boa Esperança beach camp to support turtle conservation. Involved night patrols to prevent poaching and tag/collect data on nesting turtles, beach cleans, camp chores and hatchery work.

Pilanesberg Wildlife Trust, South Africa (2 weeks):

Fundraised and volunteered for an expedition to support the anti-poaching effort. Involved rhino monitoring and identification, fence line patrols, manning observation points, and forestry management.

Community service, London:

Volunteered at food banks (Trussell trust) and community centers (Hammersmith & Fulham Volunteer Centre). Involved packing food parcels, community projects, and recreation and early education for children.