

# Alistair J. Chopping

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**Durham University**  
**Department of Mathematical Sciences**  
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*I am currently a PhD student under the supervision of Dr Charlotte Sleight, in the Department of Mathematical Sciences at Durham University. I am interested in holography and the cosmological bootstrap, and a description of my project can be found at <https://gtr.ukri.org/projects?ref=studentship-2567207>.*

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## Employment

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- **Graduate Teaching Assistant.** *October 2022 - Present*  
Department of Mathematical Sciences, Durham University, UK.

## Education

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- **PhD Mathematical Sciences - Theoretical Physics.** *October 2021 - Present*  
Department of Mathematical Sciences, Durham University, UK.

Supervisor: *Dr Charlotte Sleight.*

Project: *Bootstrapping Holography.*

- **MPhys (Hons) Theoretical Physics.** *September 2017 - June 2021*  
Department of Physics, Swansea University, UK.

**Grade:** 1st Class Honours, 89% Average.

**MPhys Thesis:** *Black Holes and The Information Loss Paradox.*

Supervisors: *Professor Timothy Hollowood & Professor S. Prem Kumar.*

Grades include:

100% in Quantum Mechanics II, Mathematical Methods I and Physics Simulation,

99% in Statistical Physics and Foundations of Astrophysics,

94% in Advanced Particle Physics,

92% in General Relativity,

89% in Quantum Field Theory.

## Academic Experience

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### Honours & Awards

- STFC PhD Studentship *September 2021 - March 2025*  
Durham University, UK.
- PM Davidson Prize *2021*  
Swansea University, UK.  
A departmental prize for master's-level research in theoretical physics.

### Attended Conferences, Workshops & Schools

- Paths to Quantum Field Theory, *August 2022*  
Durham University, UK.
- North British Mathematical Physics Seminar, *June 2022*  
University of York, UK.
- Higgs Centre School of Theoretical Physics, *May 2022*  
University of Edinburgh, UK.

### Conference & Seminar Organisation

- Early Career Researchers in Mathematics (ECRM), *TBD 2023*  
Durham University, UK.  
Co-organiser. A conference designed to bring together graduate students in Mathematics from across the UK, and across a wide variety of disciplines.
- Theoretical Physics Student Seminar Series, *September 2022 - Present*  
Durham University, UK.  
Co-organiser. A seminar series with participants from the particle theory groups in both the mathematics and physics departments at Durham, in an effort to foster a stronger connection between the two.

## Teaching Experience

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### Teaching Assistant

- Tutor for Single Mathematics A, *October - December 2022*  
Durham University, UK.  
Undergraduate module covering elementary calculus and complex numbers.

## Additional Information

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### Computing Skills

- Programs & Programming - Good knowledge of  $\text{\LaTeX}$ , *Mathematica* & *Microsoft Office*. Previous experience with *Python* from several undergraduate courses.
- Operating Systems - Good knowledge of *Microsoft Windows*.

### Foreign Language Skills

- Italian - Elementary proficiency.
- Modern Greek - Elementary proficiency.

### Referees

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- **Dr Charlotte Sleight**, Department of Mathematical Sciences and Computer Science, Durham University, UK.  
E-mail: [charlotte.sleight@durham.ac.uk](mailto:charlotte.sleight@durham.ac.uk).
- **Dr Ben Hoare**, Department of Mathematical Sciences and Computer Science, Durham University, UK.  
E-mail: [ben.hoare@durham.ac.uk](mailto:ben.hoare@durham.ac.uk).