

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 the interplay between holography and the cosmological bootstrap, as well as in the conformal bootstrap programme.

Employment

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

Education

- **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

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.

Conference & Seminar Organisation

- Early Career Researchers in Mathematics (ECRM), *July 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.
– Funding sources include the *Heilbronn Institute for Mathematical Research*, the *London Mathematical Society* and the *MAGIC Consortium*.
- Theoretical Physics Student Seminar Series, *September 2022 - June 2023*
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.

Attended Conferences, Workshops & Schools

- Lezioni Avanzate di Campi E Stringhe (LACES), *November/December 2022*
Galileo Galilei Institute for Theoretical Physics, Italy.
- 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/June 2022*
University of Edinburgh, UK.

Internal Talks

- Student Seminar, *March 2023*
Durham University, UK.
- Journal Club, *February 2023*
Durham University, UK.

Teaching Experience

Teaching Assistant

- Tutor for Single Mathematics A, *Michaelmas & Epiphany terms 2022/23*
Durham University, UK.
Undergraduate module covering elementary calculus, complex numbers and linear algebra.

Additional Information

Computing Skills

- Programs & Programming - Good knowledge of \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.

Referees

- **Dr Charlotte Sleight**, Department of Mathematical Sciences and Computer Science, Durham University, UK.
E-mail: 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.