

George Cooper – Curriculum Vitæ

Centro di Ricerca Ennio De Giorgi, Collegio Puteano,
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Employment

Centro di Ricerca Ennio De Giorgi, Scuola Normale Superiore di Pisa
Junior Visiting Researcher (postdoc), 2024 – 2026.

Education

Balliol College, University of Oxford

DPhil Mathematics, 2020 – 2024.

- *Thesis title: Universal Moduli of Sheaves over Curves and Moduli of Flags of Varieties via Geometric Invariant Theory.*
- *Thesis successfully defended in May 2024.*
- *Supervisors: Professors Frances Kirwan, Jason Lotay and Alexander Ritter.*

MMath Mathematics, 2016 – 2020.

- Second/Third Year Overall Classification: I
- Fourth Year Classification: I
- *Fourth year dissertation: Spin Structures on Riemann Surfaces.*

Publications

- *Twisting Moduli for $GL(2)$* , J. Num. Th. **217** (2020), 142-162. Joint with Bedert, B. and Oliver, T. and Zhang, P.

Preprints

- *Moduli Spaces of Hyperplanar Admissible Flags*, arXiv preprint 2304.02453.
- *GIT Constructions of Compactified Universal Jacobians over Stacks of Stable Maps*, arXiv preprint 2210.11457 (accepted for publication in Glasgow Math. J.).

Awards and Scholarships

EPSRC Scholarships

- EPSRC Doctoral Scholarship, 2020-2024.
- EPSRC Vacation Bursary, 2019.

Balliol College Exhibitions and Scholarships

- Elected as an Exhibitioner of Balliol College 2017-2018 and as a Scholar of Balliol College 2018-2020.

Balliol College Andrew Mason Memorial Grant

- Partially awarded in 2019 in support of a Summer 2019 Research Internship.

Teaching

Wadham College, University of Oxford

- Part A Linear Algebra, Michaelmas Term 2022 *tutor*.
- Undergraduate Admissions, 2022 *assistant interviewer*.

New College, University of Oxford

- Part A Projective Geometry, Trinity Term 2021 & 2022 *tutor*.
- Prelims Geometry, Michaelmas Term 2020 & 2021 *tutor*.

St. Edmund Hall, University of Oxford

- Part B Algebraic Curves, Hilary Term 2022 *tutor*.

Mathematical Institute, University of Oxford

- Part B Algebraic Curves, Hilary Term 2023 *tutor*, Hilary Term 2021 *teaching assistant*.
- Part B Geometry of Surfaces, Michaelmas Term 2022 *tutor*.
- Part C Lie Groups, Hilary Term 2022 *teaching assistant*, Hilary Term 2021 *teaching assistant, two classes*.
- Part C Algebraic Geometry, Michaelmas Term 2021 *teaching assistant*.

PROMYS Europe, University of Oxford

- Counsellor, Long Vacation 2018.

TOPS (Tōkyō Oxford Programme of Summer)

- Mathematics Teacher, Long Vacation 2022.

Balliol College, University of Oxford

- Tutor, Frontier Access Programme, Long Vacation 2022.

Invited Talks

- Geometry Seminar, Roma Tre University (Rome, Italy), December 2025.
- Milan–Pisa Algebraic and Arithmetic Geometry Meeting, University of Milan, April 2025.
- Centro De Giorgi JVP Seminar, Scuola Normale Superiore (Pisa, Italy), February 2025.
- Mathematics in Conversation, University of Padua, December 2024.
- Algebraic and Arithmetic Geometry Seminar, University of Pisa, November 2024.
- Young Geometers Symposium, Isaac Newton Institute (Cambridge, UK), January 2024.
- Algebraic Geometry Seminar, University of Glasgow, November 2023.
- Algebraic Geometry Seminar, University of Liverpool, April 2023.
- Geometry and Analysis Seminar, University of Oxford, January 2023.
- CALF Seminar, University of Cambridge, November 2022.