EPSRC CENTRE FOR DOCTORAL TRAINING IN GEOMETRY AND NUMBER THEORY

LSGNT London School of Geometry & Number Theory

Michael Singer, UCL

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Who are we and what do we do?

- Imperial College, King's College London and University College London.
- Geometry and number theory, broadly interpreted.
- Approximately 40 potential supervisors; 7 EPSRC-funded studentships, 6–7 institutionally funded studentships, 1 externally funded (Heilbronn Institute of Mathematical Research).
- Currently recruiting second cohort: initial deadline has passed, but places may be available after first round.

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Women in Geometry and Number Theory

- Sheila Edmonds bursaries: Newnham/DPMMS-funding for 3 women to study Part III at Cambridge.
- Deferred LSGNT Studentships—for women interested in geometry and number theory and wanting to take Part III at Cambridge.

See

https://www.lsgnt-cdt.ac.uk/women

or contact

konstanze.rietsch@kcl.ac.uk

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First-year training

Students based at UCL, travel to other colleges for different activities.

- Residential induction—icebreaking, intro to public engagement;
- Topics course/wrap-up sessions—encourages group-work, seems very popular;
- Coding course;
- Interface courses: 'Bundles on curves', 'Representation theory of Lie groups', 'Curves and their jacobians';
- Project work (including possible group projects);
- Light touch assessment.

Supporting mathematical development, not making barriers and rules!

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Years 2–4

- Students are paired with supervisors, and enrol at the College of their first supervisor.
- Joint seminars (UCL/KCL Geometry, London Number Theory, London Geometry/Topology) provide regular opportunities for students to discuss research.
- New activities such as colloquia, workshops, and retreats will bring the School together a few times a year.
- Industrial/overseas placements.

Where else can I do geometry in the UK?

- Aberdeen: Algebraic and geometric topology.
- Bath: Alg geom; Diff/Lie; GGT; Rep thy/homological algebra.
- Cambridge: Broad range.
- Durham: Differential and spectral; GGT; Hyperbolic; Topology.
- Edinburgh: Alg geom/representation theory/homological alg; Mathematical physics.
- Glasgow: GGT; Low-dimensional topology; Mathematical physics/integrable systems.
- Leeds: Alg./Rep Thy; Variational problems; integrable systems.
- (London): Broad range: not much GGT/low-dimensional topology.
- Oxford: Broad Range.
- Sheffield: Alg. Geom; Alg. Top.; Diff. Geom; Homological Alg.
- Warwick: Hyperbolic; GGT; Dynamical systems; Geometric analysis; Algebraic geometry.