

Curriculum Vitae

Christopher Enno Hardy Lutsko

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Contact Information

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Education

2016-present	University of Bristol (UoB) PhD Student, Advisor: Jens Marklof (<i>Ongoing</i>)
2012-2016	University of Texas at Austin (UT) B.S Mathematics Honors Deans Scholars Honors Program

Organizational Duties

Fall 2019	Organizer: Linfoot number theory seminar - University of Bristol
Spring 2019	Organizer: Linfoot number theory seminar - University of Bristol (<i>Ongoing</i>)

Teaching Experience

Summer 2013	Undergraduate TA for Introductory Physics for Pre-Meds (PHY s302K+s102M) (UT)
Spring 2015	Volunteer chemistry tutor at Garza high school
Fall 2015	Undergraduate TA for Introduction to Mathematics (M302) (UT)
Spring 2016	Undergraduate TA for Introduction to Mathematics (M302) (UT)
Fall 2016	Tutor for 2 groups (Calculus & Computational Mathematics) (UoB)
Spring 2017	Tutor for 2 groups (Calculus & Mechanics) (UoB)
Fall 2017	Tutor for 2 groups (Analysis & Foundations and Proofs) (UoB)
Spring 2018	Tutor for 2 groups (Analysis & Introduction to Group Theory) (UoB)
Fall 2018	Organized Maths Café (i.e problems class) (Measure Theory and Integration) (UoB)
Spring 2019	Problems Class (Probability II) (UoB)

Publications

Papers:

- [1] *A microscopic approach to nonlinear Reaction-Diffusion: the case of morphogen gradient formation*, with J.P. Boon, J.F. Lutsko, Physical Review E 85:021126 (2012)
- [2] *Directions in orbits of geometrically finite hyperbolic subgroups* arXiv:1811.11054 [math.DS] (2018)

- [3] *Invariance principle for the random Lorentz gas – beyond the Boltzmann-Grad limit*, with B. Tóth, arXiv:1812.11325 [math.PR] (2018)
- [4] *Farey sequences for thin groups* arXiv:1907.01854 [math.DS] (2019)
- [5] *Invariance principle for the random wind-tree process*, with B. Tóth, arXiv:1912.02492 [math.PR] (2019)

Conference Proceedings:

- [1] *Invariance principle for random Lorentz gas in the Boltzmann-Grad Limit*, Oberwolfach Report 10/2019 p. 33-35 (2019)

Academic Invitations

2017 | 1 week - Budapest University of Technology (BME)

Seminar Talks

03/2017	Dynamics Seminar - University of Bristol
04/2017	Dynamics Seminar - Budapest University of Technology (BME)
12/2017	Probability Seminar - University of Bristol
02/2018	Dynamics Seminar - University of Warwick
03/2018	Pure Postgraduate Seminar- University of Bristol
10/2018	Dynamics Seminar - University of Bristol
11/2018	Complex Systems and Statistical Mechanics Seminar - Univ. Libre de Bruxelles
12/2018	Linfoot Number Theory Seminar - University of Bristol
04/2019	Number Theory Seminar - University of Rutgers
04/2019	Mathematical Physics Seminar - University of Texas
04/2019	Dynamics Seminar - University of Houston
09/2019	Dynamics Seminar - University of Exeter
10/2019	Number Theory Seminar - University of Manchester
01/2020	Postgraduate Seminar - University of Bristol
02/2020	Dynamics Seminar - Loughborough University
03/2020	Dynamics Seminar - York University (<i>Upcoming</i>)

Conference Talks

09/2017	MINGLE post-graduate event - University of Bristol
09/2018	Dynamics Days Europe (Billiards Minisymposium) - Universty of Loughborough
09/2018	Probability and NonLocal PDEs - Universty of Swansea
03/2019	Mini-Workshop: Lorentz Gas Dynamics: particle systems and scaling limits - Mathematisches Forschungsinstitut Oberwolfach
09/2019	Large Scale Stochastic Dynamics - Mathematisches Forschungsinstitut Oberwolfach
09/2019	MINGLE post-graduate event - University of Bristol

Journal Refereeing

- International Mathematics Research Notices

Other Skills

Programming Experience | Experience using: Python, Java, C++, LAMMPS, and Latex

Language Skills | Fluent in English, proficient in French and Spanish