

CHRISTOPHER E. H. LUTSKO

Working From Home
chris@[lastname].com

EDUCATION

University of Bristol PhD in Mathematics Advisor: Jens Marklof	2016-2020
University of Texas at Austin B.S Mathematics Dean's Scholars Honors Program William's Scholar Honored Graduate	2012-2016

CAREER

University of Rutgers <i>Upcoming</i> Hill Assistant Professor	2020-2023
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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 (2016)
2. *Directions in orbits of geometrically finite hyperbolic subgroups* Mathematical Proceedings of the Cambridge Phil. Soc. [To Appear] (2020)
3. *Invariance principle for the random Lorentz gas – beyond the Boltzmann-Grad limit*, with B. Tóth, Communications in Mathematical Physics [To Appear] (2020)

Preprints:

1. *Farey sequences for thin groups* arXiv:1907.01854 [math.DS] (2019)
2. *Invariance principle for the random wind-tree process*, with B. Tóth, arXiv:1912.02492 [math.PR] (2019)
3. *Long-range correlations of sequences modulo 1* arXiv:2007.09292 [math.DS] (2020)

PhD Thesis:

Statistical Properties of Dynamical Systems: From Statistical Mechanics to Hyperbolic Geometry, 2020 (Bristol University).

Conference Proceedings:

1. *Invariance principle for random Lorentz gas in the Boltzmann-Grad Limit*, Oberwolfach Report 10/2019 p. 33-35 (2019)
2. *Invariance principle for random Lorentz gas — Beyond the Boltzmann-Grad Limit*, Oberwolfach Report 42/2019 p. 12-15 (2019)

TEACHING

Undergraduate TA for Intro to Physics for Pre-Meds (UT)	Summer 2013
Volunteer Chemistry Tutor (Garza High School)	Spring 2015
Undergraduate TA for Intro to Math (UT)	Fall 2015
Undergraduate TA for Intro to Math (UT)	Spring 2016
Tutor for 2 groups (Calculus & Computational Mathematics) (UoB)	Fall 2016
Tutor for 2 groups (Calculus & Mechanics) (UoB)	Spring 2017
Tutor for 2 groups (Analysis & Foundations and Proofs) (UoB)	Fall 2017
Tutor for 2 groups (Analysis & Introduction to Group Theory) (UoB)	Spring 2018
Organized Maths Café (i.e problems class) (Measure Theory and Integration) (UoB)	Fall 2018
Problems Class (Probability II) (UoB)	Fall 2018

ORGANIZATIONAL DUTIES

Organizer: Linfoot Number Theory Seminar (UoB)	Fall 2019
Organizer: Linfoot Number Theory Seminar (UoB)	Spring 2020

ACADEMIC INVITATIONS

1 week - Budapest University of Technology (BME)	2017
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SEMINAR TALKS

Dynamics Seminar - University of Bristol	2017
Dynamics Seminar - Budapest University of Technology	2017
Probability Seminar - University of Bristol	2017
Dynamics Seminar - University of Warwick	2018
Pure Postgraduate Seminar - University of Bristol	2018
Dynamics Seminar - University of Bristol	2018
Complex Systems and Statistical Mechanics Seminar - Univ. Libre de Bruxelles	2018
Linfoot Seminar - University of Bristol	2018
Number Theory Seminar - University of Rutgers	2019
Mathematical Physics Seminar - University of Texas at Austin	2019
Dynamics Seminar - University of Houston	2019
Dynamics Seminar - University of Exeter	2019
Number Theory Seminar - University of Manchester	2019
Postgraduate Seminar - University of Bristol	2019
Dynamics Seminar - University of Loughborough	2020

CONFERENCE TALKS

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

JOURNAL REFEREEING

- International Mathematics Research Notices