Curriculum Vitae

Jethro Warnett

Mathematical Institute, University of Oxford
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Native Speaker in English and German

Career Summary

Research experience

09.2023 -	Mathematical Institute, University of Oxford, PhD studies with José A. Carrillo and Andrea Mondino
09.2019 - 05.2021	Computer Graphics Group, University of Bern, Research Assistant of David Bommes

Education

09.2023 -	Mathematical Institute, University of Oxford, PhD studies with José A. Carrillo and Andrea Mondino
09.2021 - 12.2022	MSc in Mathematics, ETH Zürich (Swiss Federal Institute of Technology in Zürich), Graduated with Distinction
09.2018 - 03.2021	BSc in Mathematics, University of Bern, Summa Cum Laude

Publications

Published/Accepted Articles

1. Hui Huang, Jethro Warnett. *Well-posedness and mean-field limit estimate of a consensus-based algorithm for multiplayer games*. Communications on Pure and Applied Analysis (2025). https://doi.org/10.3934/cpaa.2025101

2. Martin Heistermann, Jethro Warnett, David Bommes. *Min-Deviation-Flow in Bi-directed Graphs for T-Mesh Quantization*. ACM Trans. Graph. 42, 4, Article 70 (2023), 25 pages. https://doi.org/10.1145/3592437

Preprints

1. José A. Carrillo, Jakub Skrzeczkowski, and Jethro Warnett. *Stein-log-Sobolev inequality and the exponential rate of convergence for the continuous Stein variational gradient descent method*. arXiv e-prints (2024). https://arxiv.org/abs/2412.10295

Honors, Awards, Prizes

09/2025	Stipendiary Lectureship at Queen's College (University of Oxford)
08/2025	Awarded Travel Grant for "Gradient Flows Face-to-Face" in Granada, Spain
06/2025	Awarded Travel Grant for "Conference on Mathematics of Machine Learning 2025", Hamburg, Germany
05/2025	Awarded Travel Grant for "A Junior Researcher Workshop in Optimal Transport and Applications", Santa Barbara, USA
04/2025	Awarded Travel Grant for "Special Topic School: Particles in Flow", Bonn, Germany
04/2024	Awarded Travel Grant for "Interacting Particle Systems: Analysis, Control, Learning and Computation", Providence, USA
09/2023	Stipendiary Lectureship at St. Hilda's College (University of Oxford)
09/2023	EPSRC Scholarship for Oxford University worth 46'000£
09/2023	Declined fully funded scholarship at Warwick University
07/2023	Nominated for best paper at SIGGRAPH 2023
05/2023	VMP - Best Teaching Assistant Award

Teaching experience

Queen's College (University of Oxford)

MT25/26	Introductory Calculus

St. Hilda's College (University of Oxford)

TT24/25	Revision Classes
HT24	Numerical Analysis
HT24	Integration
MT23/24	Metric Spaces and Complex Analysis

Mathematical Institute, University of Oxford

MT23/24	Functional Analysis I

ETH Zürich (Swiss Federal Institute of Technology in Zürich)

FS23	Analysis IV (Fourier Theory and Hilbert Spaces)
HS22	Analysis I
FS22	Analysis II
HS21	Analysis I: eine Variable

University of Bern

FS21	Analysis II
HS20	Algebra
FS20	Analysis II
HS19	Analysis I

Talks at Conferences and Workshops

09/2025	*Gradient Flows Face-to-Face*, Granada, Spain
09/2025	*Conference on Mathematics of Machine Learning 2025*, Hamburg, Germany
07/2025	*A Junior Researcher Workshop in Optimal Transport and Applications*, Santa Barbara, USA
07/2025	*New Perspectives in Nonlocal and Nonlinear PDEs*, Anacapri, Italy
03/2025	*AER Young Mathematicians Meeting*, Regensburg, Germany

Talks at Seminars

Invited Talks

05/2025	*Junior Analysis Seminar*, Imperial College London, United Kingdom
10/2024	*Coffee Seminar*, Oxford, United Kingdom

By Application

02/2025	*Junior Analysis and Probability Seminar*, Warwick, United Kingdom

Poster Presentations

06/2025	*Particles in Flow*, Bonn, Germany
04/2025	*Probability, Analysis and Dynamics*, Bristol, United Kingdom
03/2025	*AER Young Mathematicians Meeting*, Regensburg, Germany

Academic Visits

10/2025	Visited Prof. Razvan Fetecau at Simon Fraser University, Vancouver, Canada. This was for an ongoing collaboration on the mathematical perspective of transformers.