

# OFER BUSANI

## PERSONAL INFORMATION

*Address*

University of Bonn  
Endenicher Allee 60  
Bonn, Germany  
53115

*Email* [busani@iam.uni-bonn.de](mailto:busani@iam.uni-bonn.de) \ofer659@gmail.com

*Website* <https://wt.iam.uni-bonn.de/people/interacting-random-systems/of-fer-busani/home>

## EMPLOYMENT

- 2021–present Postdoctoral position at the Hausdorff Center for Mathematics, Bonn, Germany.
- 2018–2021 Postdoctoral position at the School of Mathematics at University of Bristol, United Kingdom

## EDUCATION

- 2012–2018 Ph.D. in Mathematics, Bar Ilan University, Israel.
- 2010–2012 M.Sc. in Mathematics, Bar Ilan University, Israel.
- 2006–2010 B.Sc. in Electrical Engineering, Bar Ilan University, Israel.

## TEACHING EXPERIENCE

- 2012 Bar Ilan University T.A for Mathematics for Optometrists, Statistical Methods
- 2013 Bar Ilan University T.A for Modern Analysis, Harmonic Analysis, Abstract Algebra
- 2014 Bar Ilan University T.A for Modern Analysis, Harmonic Analysis, Differential Forms, Abstract Algebra
- 2015 Bar Ilan University T.A for Modern Analysis, Harmonic Analysis, Differential Forms, Numerical Methods, Ordinary Differential Equations
- 2016 Bar Ilan University T.A for Modern Analysis, Complex Analysis, Numerical Methods, Linear Algebra
- 2017 Bar Ilan University T.A for Harmonic Analysis
- 2019 University of Bristol T.A for Analysis

## ACADEMIC ACTIVITIES

- April–July 2017 Co-Organizer of the Young Researchers' Seminar at IHP trimester 'Stochastic Dynamics Out of Equilibrium'

- 2018-2021 Co-Organizer of Bristol Probability Seminar
- 2021 Organizer of 'New challenges in the KPZ universality class' workshop (The funding was awarded by the 'Focused Research Workshop' program of the Heilbronn Institute, but was canceled due to Covid-19)
- 2021 Organizer of the joint Bristol-Warwick-Queen Mary probability seminar

## PUBLICATIONS AND PREPRINTS

*First appeared*

- 2022 with Timo Seppäläinen and Evan Sorensen. [Scaling limit of the TASEP speed process.](#) [arXiv:2211.04651](#)
- with Riddhipratim Basu and Patrik Ferrari. [On the exponent governing the correlation decay of the Airy<sub>1</sub> process.](#) [Communications in Mathematical Physics.](#) (2022).
- with Timo Seppäläinen and Evan Sorensen. [The stationary horizon and semi-infinite geodesics in the directed landscape.](#) [arXiv:2203.13242](#) - submitted
- 2021 [Diffusive scaling limit of the Busemann process in Last Passage Percolation.](#) [arXiv:2110.03808](#) - submitted
- with Gidi Amir, Christophe Bahadoran and Ellen Saada. [Invariant measures for multilane exclusion process.](#) [arXiv:2105.12974](#) – submitted
- 2020 with Timo Seppäläinen. [Non-existence of bi-infinite polymer Gibbs measures.](#) [Electronic Journal of Probability.](#) (2022). No. 14, 40 pp.
- with Timo Seppäläinen. [Bounds on the running maximum of a random walk with small drift.](#) [ALEA.](#) (2022). 19, no. 1, 51–68.
- with Patrik L. Ferrari. [Universality of the geodesic tree in last passage percolation.](#) [Annals of Probability.](#) (2022). 50, no. 1, 90–130.
- with Márton Balázs and Timo Seppäläinen. [Local stationarity of exponential last passage percolation.](#) [Probability Theory and Related Fields.](#) (2021). 180, 113–162
- 2019 with Gidi Amir, Patricia Gonçalves and James Martin. [The TAZRP speed process.](#) [Annales de l'Institut Henri Poincaré.](#) (2021). 57(3): 1281-1305
- with Márton Balázs, Timo Seppäläinen. [Non-existence of bi-infinite geodesics in the exponential corner growth model.](#) [Forum of Mathematics, Sigma.](#) (2022). 8, e46
- 2018 [Continuous time random walk as a random walk in random](#)

environment. [arXiv:1709.02141](https://arxiv.org/abs/1709.02141)

- 2017 Finite dimensional Fokker–Planck equations for continuous time random walk limits. *Stochastic Processes and their Applications*. (2017). 127(5), 1496-1516
- 2016 Aging uncoupled continuous time random walk limits. *Electronic Journal of Probability*. (2016). 21: 1-17

#### GRANTS, AWARDS AND FELLOWSHIPS

- 2012 Selim and Rachel Benin Scholarship Fund
- 2012–2016 Milgat Hanasi scholarship
- 2020 Heilbronn Focused Research grant

#### INVITED CONFERENCE LECTURES

- 2019 Advances in Last Passage Percolation, University of Sussex, June
- 2021 Israel Mathematical Union meeting 2021, online, July
- 2021 Encontro National SPM 2021, online, July
- 2021 Rouen Probability Meeting 2021, online, October
- 2021 Ausgburg Munich day on exclusion processes, December.
- 2022 Oberwolfach 2022, October.

#### INVITED SEMINAR LECTURES

- 2013 Bar Ilan Probability Seminar
- 2015 Weizmann Institute of Science Students Probability Seminar
- 2017 Beer-Sheba University Probability Seminar
- 2018 Tel-Aviv University Probability Seminar
- 2019 Bristol University Probability Seminar
- 2019 Instituto Superior Técnico Probability Seminar
- 2020 Warwick probability seminar
- 2020 Bath probability seminar
- 2020 Junior Integrable Probability Seminar(JIPS)
- 2020 Bernoulli-IMS One World Symposium 2020
- 2020 Purdue probability seminar

- 2021 TUM probability seminar
- 2021 Imperial College of London probability seminar
- 2021 Bristol probability seminar
- 2022 KTH RMT probability seminar
- 2022 Joint Israeli Probability Seminar (JIPS)
- 2022 Strasbourg Probability Seminar

CONTRIBUTED CONFERENCE LECTURES

- 2014 International Vilnius conference on Probability Theory and  
Mathematical Statistics 2014
- 2015 Stochastic Processes and Applications 2015

November 18, 2022