

EMPLOYMENT *Post-Doctoral Research Associate*, Epidemiological Modelling Aug. 2018-Present
The University of Manchester, UK

EDUCATION *Doctor of Philosophy*, Applied Mathematics 2015-2018
The University of Manchester, UK
Thesis title: Anomalous Transport with Intrinsic Biophysical Properties: Lévy Walks and Networks.

- Presented with President's Doctoral Scholar Award for research excellence.

Master of Physics, Physics with Theoretical Physics 2011-2015
The University of Manchester, UK
Awarded First Class with Honours

Master's thesis: Vortex matter in superconductors, the one-component plasma.

- Awarded Manchester Success Scholarship every year for academic performance.

International Baccalaureate 2008-2011
Birkerød Gymnasium, Denmark
Total points: 43/45

PUBLICATIONS S. Fedotov and H. Stage. "Subdiffusive Transport in Heterogeneous Patchy Environments." In L. Olivares-Quiroz and O. Resendis-Antonio, *Quantitative Models for Microscopic to Macroscopic Biological Macromolecules and Tissues*, pp. 37-58 (2018). Springer, Cham.

H. Stage. "Aging in mortal superdiffusive Lévy walkers." *Physical Review E*, Vol. 96, No. 6 (2017), p. 062150.

H. Stage and S. Fedotov. "Non-Linear Continuous Time Random Walk Models." *European Physical Journal B*, Vol. 90, No. 11 (2017), p. 225.

S. Fedotov and H. Stage. "Anomalous Metapopulation Dynamics on Scale-Free Networks." *Physical Review Letters*, Vol. 118, No. 9 (2017), p. 098301.

H. Stage, S. Fedotov and V. Méndez. "Proliferating Lévy Walkers and Front Propagation." *Mathematical Modelling of Natural Phenomena*, Vol. 11, No. 3 (2016), pp. 157-178.

TALKS "Density-Induced Changes in Anomalous Transport" Feb. 2018
Technical University of Berlin, Germany

"Persistence in the Search for Avalon" Nov. 2017
Collective Dynamics Seminar Series
University of Bristol, UK

"Living Lévy Walkers" Sept. 2017
Current status and future directions of Lévy walk research
The Company of Biologists, Wiston House, UK

"Anomalous Diffusion of Synaptic Vesicles - how a neuron fires" May 2017
Manchester SIAM-IMA Student Chapter Conference
The University of Manchester, UK – *Awarded 'Best Talk'*

"Random Walks with Memory Effects – Why, What and How?" Sept. 2016

Mathematics Research Students' Conference
The University of Manchester, UK

“Proliferating Lévy Walkers and Front Propagation.” Dec. 2015
META Workshop: Analytical and computational methods for multiscale ecology
The University of Birmingham, UK

**OTHER
ACADEMIC
ACTIVITY**

Awarded IBM Prize for Best Poster Sept. 2017
'Mathematics Research Students' Conference', Manchester, UK

Presented prize-winning poster at international Lévy Walk meeting May 2016
'617th WE-Heraeus Seminar: Quantifying Complex Transport With Lévy Walks: From
Cold Atoms to Humans and Robots', Bad Honnef, Germany

Organised and attended locally held workshop Mar. 2016
'Stochastic Modelling of Transport Processes in Biology', Manchester, UK

RISE intern: Pattern Formation in Complex Biological Systems June-Sept. 2014
Ludwig-Maximilians University, Munich, Germany

RISE intern: Stochastic Processes in Coupled Anharmonic Systems June-Sept. 2013
Leipzig University, Leipzig, Germany

**REFEREED
JOURNALS**

Nature Scientific Reports 2017-Present
Physical Review E 2018-Present

**TEACHING
EXPERIENCE**

Feedback Supervisor, The University of Manchester 2016-2018
Exam marker, The University of Manchester 2015-2018

**OUTREACH
WORK**

Mathematics and Art, Whitworth Art Gallery 2018-Present

Designed and developed day-long masterclasses on the intersection between mathematics and art, aimed at primary school students. Assisted in the delivery of the activities.

Outreach Demonstrator, The University of Manchester 2016-Present

Part of the team delivering outreach activities at Science Spectacular (2016, 2017) and at ScienceX (2017, 2018).

Widening Participation Fellow, The University of Manchester 2016-2018

Designed, developed, and delivered mathematics workshops to students (primary to A-level) in the Greater Manchester area.

**OTHER WORK
EXPERIENCE**

Peer Mentor, University of Manchester 2012

BIGMUN-Model United Nations Conference Co-founder, Manager and Coordinator,
Birkerød Gymnasium, Denmark 2010-2011

**COMPUTER
SKILLS**

Languages & Software: C, C++, FORTRAN, L^AT_EX, Mathematica, MatLab and Python.