Dmitri Finkelshtein Curriculum vitae

CONTACT INFORMATION

Department of Mathematics

College of Science

Swansea University

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RESEARCH INTERESTS

Mathematical theory of complex systems and their applications; infinite-dimensional and stochastic analysis; probability theory and point processes; scaling limits and related meso- and macroscopic equations; front propagation and travelling waves.

EXPERIENCE

Swansea University, United Kingdom
 Senior Lecturer, Department of Mathematics
 Lecturer, Department of Mathematics
 September 2013 – February 2017

Bielefeld University, Germany
 Scientific Fellow, Department of Mathematics
 March 2013 – August 2013

Institute of Mathematics, Kiev, Ukraine
 Senior Research Fellow, Department of Fractal Analysis
 Junior Research Fellow, Department of Mathematical Physics
 September 2009 – Present
 January 2008 – August 2009
 December 2003 – December 2007

DEGREES AND EDUCATION

• DSc (Doctor of Sciences, Habilitation)

June 2014

Title: Stochastic dynamics of continuous systems Host: Institute of Mathematics, Kiev, Ukraine

PhD in Mathematics
 November 2004

Title: Some classes of measures and related operators on configuration spaces

Advisor: Prof. Dr. Yuri Kondratiev

Host: Institute of Mathematics, Kiev, Ukraine

• MSc in Mathematics, graduated with distinction

June 2000

Title: Gauss formula and symmetric extensions of the Laplacian on configuration spaces

Advisor: Dr. Alexei Konstantinov

Host: Taras Shevchenko National University of Kiev

• BSc in Mathematics, graduated with distinction

June 1999

Title: On exponential model of Poisson spaces

Advisor: Dr. George Us

Host: Taras Shevchenko National University of Kiev

Honors and Awards

• Winner of the Mathematical Competition for young mathematicians in Ukraine (\$6000) 2012

The Ukraine President Prize for young scientists (~£1000)

• George Soros' Prize for Students (\$800)

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Grants and Fellowships

• LMS, Research in Pairs, Scheme 4 (£500)	2016
• College of Science (Swansea University) Research Funds (£730, £400, £450)	2014, 2015, 2016
• LMS, Joint Research Groups in the UK, Scheme 3, Co-Investigator (£2000)	2015–2016
 IRSES (Marie Curie Actions) Project, Grant number PIRSES-GA-2013-612669 Co-Investigator, Ukrainian team leader (€74100) 	2014–2017
$ullet$ The Ukraine President Grant for young scientists (\sim £5800)	2012
• The Ukraine President Fellowship for young scientists	2011–2013
$ullet$ Individual research grant of the Ukrainian National Academy of Sciences (\sim £1600)	2011
Fellowship of the Ukrainian National Academy of Sciences	2008–2010
 Grant of the Ukrainian National Academy of Sciences (∼£1000) 	2006–2007

Research Visits

Faculty of Mathematics, Bielefeld University, Germany	2001–2012, 2014–2016
• Department of Statistics, Warwick University, UK	December 2016
• Faculty of Mathematics, Technische Universität Kaiserslautern, Germany	June 2016
Department of Biosciences, Helsinki University, Finland	December 2012, April 2015
• Centro de Ciências Matemáticas, University of Madeira, Portugal	July 2008, August 2009
• Institute for Applied Mathematics, Bonn University, Germany	April 2000

RECENT PREPRINTS

- U
- D. Finkelshtein, Y. Kondratiev, and P. Tkachov. "Accelerated front propagation for monostable equations with nonlocal diffusion". arXiv: 1611.09329 (66 pages).
- D. Finkelshtein, Y. Kondratiev, and P. Tkachov. "Traveling waves and long-time behavior in a doubly nonlocal Fisher-KPP equation". arXiv:1508.02215 (100 pages).

Conferences and Workshops

- Modelling Tumour Evolution: Initiation, Growth and Progression, Bielefeld, Germany, 11–17/9/2016
- Stochastic Analysis and Applications, Beijing, China, 1–6/4/2016
- Nonlocal Aspects in Mathematical Biology, Bedlewo, Poland, 26-30/1/2016
- Micro and Macro Systems in Life Sciences, Bedlewo, Poland, 8-13/4/2015
- Probability, Reliability and Stochastic Optimization, Kyiv, Ukraine, 7-10/4/2015
- Stochastic and Infinite Dimensional Analysis, Bielefeld, Germany, 24–28/6/2013
- Fusion of Knowledge in Stochastic Modelling of Large Complex Systems, Bielefeld, Germany, 10–14/6/2013
- Modern Stochastics: Theory and Applications I–III, Kiev, Ukraine, 19–23/6/2006, 7–11/9/2010, 10– 14/9/2012
- Quantitative Behavior of Stochastic Systems and Applications, Bielefeld, Germany, 18–22/6/2012
- Stochastic analysis and applications, Kiev, Ukraine, 29-30/3/2011
- Minisymposium Interacting Particle Systems and related non-linear (stochastic) Evolution Equations, DMV-Jahrestagung (Annual Conference of German Mathematical Society), Cologne, Germany, 19-22/9/2011
- Functional Methods in Probability Theory and Probabilistic Number Theory, Kiev, Ukraine, 28–30/9/2011
- Stochastic Population Dynamics and Applications in Spatial Ecology, Edinburgh, UK, 15–20/6/2009
- Particle Systems, Feynman Integrals, Stochastic Analysis, Funchal, Madeira, Portugal, 24/7-7/8/2009
- Ukrainian Mathematical Congress, Kiev, Ukraine, 27-29/8/2009

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• *Infinite Particle Systems 1–5*, Kazimierz Dolny, Poland, 22–27/10/2005, 8–11/10/2006, 23–28/6/2007, 8–12/9/2008, 21–25/9/2009

- IDA and Applications to Feynman Integrals and Particle Systems, Funchal, Madeira, Portugal, 15/7–8/8/2008
- Skorokhod Space. 50 Years on, Kiev, Ukraine, 17-23/6/2007
- Stochastic Analysis and Applications, Hammamet, Tunisia, 5-10/11/2007
- Symmetry in Nonlinear Mathematical Physics, Kiev, Ukraine, 23—29/6/2003, 20–26/6/2005
- Modern Problems And New Trends In Probability Theory, Chernivtsi, Ukraine, 19–26/6/2005
- Conference dedicated to 90th anniversary of B. V. Gnedenko, Kiev, Ukraine, 3-7/6/2002
- Ukrainian mathematical congress, Kiev, Ukraine, 22-26/8/2001

RECENT TALKS ON SEMINARS AND ONE-DAY MEETINGS

- University of Birmingham, UK, 16/12/2016
- Durham University, UK, 27/9/2016
- Kaiserslautern University of Technology, Germany, 8/6/2016
- University of Dundee, UK, 18/1/2016
- Institute of Mathematics, Kiev, Ukraine, 16/12/2015
- University of York, UK, 10/12/2015
- University of Reading, UK, 1/12/2015
- University of Bielefeld, Germany, 18/11/2015
- Cardiff University, UK, 25/9/2015
- University of York, UK, 17/11/2014
- Aix-Marseille University, France, 4/3/2013

Professional Memberships

London Mathematical Society since 2015
 Kiev Mathematical Society since 2008

TEACHING QUALIFICATION

• Fellow of the Higher Education Academy, recognition reference number: PR110110 July 2016

Administrative Responsibilities (Swansea University)

• Head of the Foundation Year 2014–2016

Web officer (seminars, past exam papers, compliance)
 2013 – Present

TEACHING PRACTICE

- Regular Courses taught at Swansea University, UK
 - Year 0: Fundamental Geometry, Fundamental Mathematics;
 - Year 1: Calculus for Physicists, Classical Mechanics of Particles;
 - Years 3/M: Differential Equations, Functional Analysis
- Special Course taught at Taras Shevchenko National University of Kiev, Ukraine
 MSc: Statistics of Stochastic Point Processes
- Regular Courses taught at Dragomanov National Pedagogical University, Kiev, Ukraine
 Final Year: Probability Theory, Mathematical Statistics, Introduction to Stochastic Processes
 MSc: Mathematical modelling, Risk Theory, Actuary computations, Mathematical Structures

STUDENT SUPERVISION

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• Swansea University, UK

MPhil: Youngseo Chi (current)

MSc (Taught Masters): J. Nkemachor, L. Fulgoni (2014); Y. Liu, K. Rohbani-Eivazi (2015), J. Guo, E. A. Abrahams (2016)

MMath: A. Howat, J. L. Kent (2015)

BSc: A. E. Lawrence, C. Osborne, L. J. Massie, A. I. Bailey, R. Miles-Hewinson (2014); S. Telford, M. Morris, X. Li (2015); R. E. Bowers-James, D. Declan, R. K. Zafar (2016)

Dragomanov National Pedagogical University, Kiev, Ukraine
 I. Polushina, I. Omelchenko, R. Bobovsky, V. Mazurenko (2009); O. Savych, S. Chalyuk, V. Karabanov, D. Karnauch (2010); N. Procyuk, O. Tilchenko, S. Grynyuk, A. Gumenyuk (2011); P. Donchenko Petr, D. Isaenko, O. Maiboroda, P. Naumenko (2012)

SOFTWARE SKILLS

- Computer Programming: Visual Basic, VBA, VBScript, Pascal, Delphi, Python
- Internet Technologies: HTML, CSS, PHP, MySQL, JavaScript
- Mathematical Computing: Mathematica, Maple, Matlab
- TFX-world: (A)TFX, BIBTFX, PGF/TikZ, most common packages
- Scientific Graphics: METAPOST, Asymptote, GeoGebra, Gnuplot
- Operating systems: Microsoft Windows family, Ubuntu, Android, OS X
- Desktop Publishing: Adobe InDesign, Corel Ventura, Quark XPress

LANGUAGES

Russian - Mother tongue, Ukrainian - Native, English - Fluent, German - Reading&Listening