

WATTHANAN JATUVIRIYAPORNCHAI
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Date of Birth: 20 July 1988
Place of Birth : Phitsanulok
Nationality: Thai

Education

- 2017 PH.D. IN MATHEMATICS
Thesis : Population Dynamics and Stochastic Particle Systems
Supervisors : Dr. Stefan Grosskinsky and Dr. Dario Spano
Mathematics Institute. University of Warwick, Coventry, UK
- 2013 Master of Mathematics (MMath.) with First Class Honour
Research Project : Duality and Diffusion Limits in Population Genetics Models
University of Warwick, Coventry, UK
- 2009 A-levels : Maths A, Further Maths A, Additional Further Maths A,
Chemistry A, Physics A
Concord College, Shrewsbury, UK
- 2007 High School (GPA 3.98)
Yupparaj Wittayalai School, Chiangmai, Thailand

Employment

since 01/2018 Lecturer
Department of Mathematics, Faculty of Science, Mahidol University, Thailand

Research Area

Interacting particle systems, applied probability, Markov processes, condensation, birth death processes, Mathematical population genetics, coalescence, duality

Publications

Jatuwiriyaornchai, W. and Grosskinsky, S., 2016. *Coarsening dynamics in condensing zero-range processes and size-biased birth death chains*. Journal of Physics A: Mathematical and Theoretical, 49(18), p.185005. (Chosen for IOP Select)

Grosskinsky, S. and Jatuwiriyaornchai, W., 2018. *Derivation of mean-field equations for stochastic particle systems*. Stochastic Processes and their Applications.

DOI: 10.1016/j.spa.2018.05.006.

Jatuwiriyaornchai, W., Grosskinsky, S. and Spano, D. 2018. *Coarsening dynamics in Inclusion processes and its duality*. (In preparation)

Teaching Experience

- 2018 Lecturing 3 courses in Term 2/2017, Mahidol University :
SCMA181 Introduction to statistic for medical students
SCMA481 Time series analysis for actuarial science international program
SCMA643 Time series analysis for master of science program in applied mathematics
- 2014-2016 Supervisor
1st year Discrete Mathematics students, University of Warwick
- 2014-2016 Teaching Assistant
Topics in Mathematical Biology, 3rd year Mathematics module, University of Warwick

Conferences, Schools and Workshops

2018

- May 2018 Annual Pure and Applied Mathematics Conference 2018
Chulalongkorn University

2017

- August 2017 20-minute-contributed talk "Derivation of mean-field equations for stochastic particle systems" (awarded a full conference grant)
Young Researchers in Mathematics 2017, University of Kent
- June 2017 LMS Women in Maths Day
University of Warwick
- June 2017 Introduction to Machine Learning Summer School
University of Warwick
- April-June 2017 Trimester on Stochastic Dynamics out of Equilibrium (awarded a full conference grant)
- 3rd-7th April : Research school at Centre International de Rencontres Mathematiques (CIRM), Marseille
- 16th-18th May : Life science at Henri Poincare Institute (IHP), Paris
- 12th-16th June : Stochastic dynamics out of equilibrium at IHP, Paris
- March 2017 Warwick Q-Step Methods Spring Camp 2017
University of Warwick

2016

- October 2016 30-minute-contributed-talk "Coarsening dynamics in condensing stochastic particle systems" (awarded a full conference grant)
The Mathematics of Disorder; Young Women Academy and Young Women in Probability and Analysis 2016, Institute for Applied Mathematics, University of Bonn

- August 2016 20-minute-contributed talk “Coarsening dynamics in condensing stochastic particle system” (awarded a full conference grant)
Young Researchers in Mathematics 2016, University of St.Andrew
- July 2016 30-minute-invited-talk “Coarsening dynamics in condensing stochastic particle systems” (awarded a full conference grant)
Condensation phenomena in stochastic systems, University of Bath
- June 2016 20-minute-contributed talk “Coarsening dynamics in condensing zero-range processes and size-biased birth death chains” (awarded a full conference grant)
School and Workshop on Random Interacting Systems, University of Bath
- March 2016 Attended *Probabilistic models - from discrete to continuous*
University of Warwick
- February 2016 60-minute talk “Coarsening dynamics in condensing zero-range processes and size-biased birth death chains”
WIMPS, University of Warwick
- 2015
- 2015-2016 Attended *Warwick EPSRC Symposium on Fluctuation-driven phenomena and large deviations*
Univeristy of Warwick
- November 2015 25-minute-contributed talk “Coarsening dynamics in condensing zero-range processes” (awarded a full conference grant)
Junior Female Researchers in Probablity (JFR2015) in Berlin
- September 2015 Attended *Workshop on Models and Inference in Population Genetics*
University of Warwick
- August 2015 20-minute-contributed talk in Probability and Stochastic Processes section “Coarsening dynamics in condensing zero-range processes” (awarded a full conference grant)
Young Researchers in Mathematics conference (YRM2015), University of Oxford
- July 2015 15-minute-contributed talk “Coarsening dynamics in condensing zero-range processes”
38th Conference on Stochastic Processes and their Applications (SPA2015), University of Oxford
- March 2015 Poster presentation
The 4th Joint British Mathematical Colloquium and British Applied Mathematics Colloquium, University of Cambridge
- 2014
- September 2014 Attended *UK Probability Meeting: From Microscopic Randomness to Macroscopic Phenomena* (awarded a full conference grant)
Imperial Probability Centre, London
- August 2014 Attended *Population Dynamics and Statistical Physics in Synergy*
EUrandom, Eindhoven

July 2014	Poster presentation and Track Chair in Mathematical Biology session <i>Young Researchers in Mathematics 2014</i> , University of Warwick
June 2014	Oral presentation <i>1st year PhD students' Talk</i> , Warwick Mathematics Colloquium
May 2014	Attended <i>Young Women in Probability 2014</i> (awarded a full conference grant) School in Mathematics, Bonn
February 2014	Attended <i>From interacting particle systems to population genetics Workshop</i> University of Erlangen
February 2014	30-minute talk "Condensation in population dynamics and the zero-range process" WIMPS, University of Warwick

Scholarship and Awards

2004-2017	Full-funded Scholarship (highschool to PhD) from Development and Promotion of Science and Technology Talents Project (DPST), the Royal Thai government
2008	Distinction in Advanced Extension Award in Mathematics, UK
2007	Best student of the year, Yupparaj Wittayalai School

Language Skills

FLUENT:	English
BASICS:	Mandarin Chinese
MOTHER TONGUE:	Thai

Computer Skills

Matlab, Mathematica, C, \LaTeX , Microsoft Offices