

ANTONIOS MEIMARIS

Ph.D. Candidate - Monash University

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PERSONAL DETAILS

Citizenship: Greek

Languages: English, Greek, Russian

SHORT TERM ACADEMIC APPOINTMENTS

CE Lecturer - University of Liverpool, Liverpool, UK November, 2017

Lecture Topic: *History of Probability & Randomness*

Visiting Scholar - Columbia University, New York, USA May - June, 2017

Visiting Scholar - Columbia University, New York, USA November - December, 2016

COLLABORATIONS

Stochastic Engineering Dynamics Lab, Columbia University

2015 - present

EDUCATION

Monash University, Melbourne, Australia

Doctor of Philosophy, Econometrics & Business Statistics, *Expected award date:* 2019

- Thesis Topic: *Path integral techniques to stochastic modelling and options pricing*
- Advisors: Athanasios A. Pantelous, Ph.D (Monash University, Australia),
Dan Zhu, Ph.D (Monash University, Australia) and
Ioannis A. Kougiumtzoglou, Ph.D (Columbia University, USA)

University of Liverpool, Liverpool, United Kingdom

Doctor of Philosophy, Mathematics, *Started:* October 2016, *Cont. at Monash Univeristy*

- Thesis Topic: *Path integral techniques to stochastic modelling and options pricing*
- Advisors: Athanasios A. Pantelous, Ph.D (University of Liverpool, UK) and
Ioannis A. Kougiumtzoglou, Ph.D (Columbia University, USA)

Master by Research, Decision Making Under Risk & Uncertainty, 2016

- *Awarded with distinction*
- Topic: *Some observations on the approximations of the Wiener path integral technique*
- Advisors: Athanasios A. Pantelous, Ph.D (University of Liverpool, UK) and
Ioannis A. Kougiumtzoglou, Ph.D (Columbia University, USA)

University of Athens, Athens, Greece

Diploma, Mathematics, 2015

- *Four-year program*
- Directions: Pure & Applied Mathematics
- Specializations: Computational Mathematics
Statistics and Operations Research

PUBLICATIONS

Published

- o **Antonios Meimaris**, Ioannis Kougoumtzoglou and Athanasios Pantelous, “A closed form approximation and error quantification for the response transition probability density function of a class of stochastic differential equations”, Probabilistic Engineering Mechanics (2017).
- o **Antonios Meimaris**, Ioannis Kougoumtzoglou and Athanasios Pantelous, “Some observations on the approximations of the Wiener path integral technique”, Meccanica dei Materiali e delle Strutture Vol. VI, no.1, (2016): 195-202.

Submitted

- o Konstantinos Liaskos, Athanasios Pantelous, Ioannis Kougoumtzoglou and **Antonios Meimaris**, “Implicit analytic solutions for the linear stochastic partial differential beam equation with fractional derivative terms”, Systems & Control Letters, (2018), Under Review.
- o **Antonios Meimaris**, Ioannis Kougoumtzoglou and Athanasios Pantelous, “Approximate analytical solutions for a class of nonlinear stochastic differential equations”, European Journal of Applied Mathematics, (2018), To Appear.

In preparation

Antonios Meimaris, Ioannis Kougoumtzoglou and Athanasios Pantelous, “Closed-form approximate solutions and error quantification for a class of coupled nonlinear stochastic differential equations”, (2018).

Preprints

Antonios Meimaris, “On the additive persistence of a number in base p ”, (2015).

AWARDS

Monash Graduate Scholarship (MGS) , Postgraduate Research Studentship (2018-2021).	Autumn 2017
Monash International Tuition Scholarship (MITS) , Postgraduate International Tuition Studentship (2018-2021).	Autumn 2017
EPSRC Centre for Doctoral Training (CDT): Award , including monetary prize, for a proposed solution to a statistical problem (estimators of unknown quantities and uncertainty quantification).	Summer 2017
EPSRC Centre for Doctoral Training (CDT): Studentship , Postgraduate Research Studentship (2015-2019).	Summer 2015
Informatics Commendation Award of Athens College , for excellence in information technology.	Summer 2011
Commendation , on a national level, for participating in the third and final stage of the 23rd Panhellenic Informatics Competition.	Summer 2011
Commendation , on a national level, for participating in the third and final stage of the 22nd Panhellenic Informatics Competition.	Summer 2010
Commendation , on an international level, for participating in the XVII International Space Olympics (ISO), Korolev City Moscow, Russia.	Winter 2009

PROFESSIONAL DEVELOPMENT

I have presented in the following events:

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| <i>2017 EMI Conference</i>
San Diego, CA, USA
“Assessing the accuracy of the Wiener Path Integral technique for a class of stochastic differential equations” | June 2017 |
| <i>2016 EMI International Conference</i>
University of Lorraine (Université de Lorraine), Metz, France
“Some observations on the approximations of the Wiener path integral technique”
*Here I was a keynote speaker | October 2016 |
| <i>Annual Showcase Conference</i>
University of Liverpool, Liverpool, United Kingdom
“Some observations on the approximations of the Wiener path integral technique”
*Here I also presented a poster “Path integral techniques: Applications to financial modelling and options pricing” | September 2016 |
| <i>2nd Symposium on Quantitative Finance and Risk Analysis (QFRA 2016)</i>
University of Liverpool, Liverpool, United Kingdom
“Some observations on the approximations of the Wiener path integral technique” | June 2016 |
| <i>University of Athens Reading Group</i>
University of Athens, Athens, Greece;
“Making Change for n Cents” | February 2015 |
| <i>Tutorial</i>
University of Athens, Athens, Greece;
“On sequences” | February 2014 |

I have attended the following events:

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| <i>CDT Easter School 2017</i>
University of Liverpool, Liverpool, United Kingdom | April 2017 |
| <i>NATCOR: Forecasting and Predictive Analytics</i>
Lancaster University, Lancaster, United Kingdom | September 2016 |
| <i>3rd BCN(Barcelona) Summer School on Stochastic Analysis</i>
Centre de Recerca Matemàtica, Bellaterra, Barcelona, Spain | June-July 2016 |
| <i>NATCOR: Convex Optimization</i>
University of Edinburgh, Edinburgh, United Kingdom | June 2016 |
| <i>MIGSAA graduate course on stochastic pathwise integration and stochastic particle systems</i>
University of Edinburgh, Edinburgh, United Kingdom | April 2016 |
| <i>CDT Easter School 2016</i>
University of Liverpool, Liverpool, United Kingdom | April 2016 |
| <i>13th International Probabilistic Workshop (IPW2015)</i>
University of Liverpool, Liverpool, United Kingdom | November 2015 |
| <i>9th Panhellenic Logic Symposium</i>
National Technical University of Athens, Athens, Greece | June 2013 |

TEACHING EXPERIENCE

I was a teaching and marking assistant for MATH367, an advanced graph theory course and a teaching assistant for MATH480, an advanced measure-theoretic probability theory course, at the University of Liverpool. I also was a marking assistant for MATH367, in the previous year at the University of Liverpool.

I was a teacher for a two month period in 2015 at Varvakios Pilot School, Greece, organized by the University of Athens, Greece. This placement provides useful experience since it helps prepare the student for teaching large classes, organizing a course, and also gives the student an opportunity to teach a few lectures.

I have been a tutorial assistant regularly since February 2014, in mathematics, with experience TA'ing the subjects of calculus, network theory with applications, algorithms and programming. A full list of courses that I have TA'ed is below.

University of Liverpool

MATH480 - Probability Essentials for Financial Calculus

MATH367 - Networks in Theory and Practice

University of Athens

MATH141 - Computer Science I (MATLAB)

MATH101 - Calculus I

OTHER WORK EXPERIENCE AND SKILLS

I received the Computer Literacy Certificate from the University of Athens, Greece, based on the number of Information Technology modules successfully passed.

I was a programmer responsible with developing Web-based software at Converge - ICT Solutions & Services, Greece during the summer of 2009.

During these years, I have acquired the following technical skills

- **Programming:** L^AT_EX, MATLAB, Mathematica and others.
- **Operating Systems:** Apple Mac OS X, Linux, Microsoft Windows, Oracle Solaris and others.
- **Application Software:** Microsoft Office, OpenOffice, TeamViewer and others.

VISITS TO INTERNATIONAL RESEARCH CENTERS

Hartree Centre, Science and Technology Facilities Council, UK	May 2016
European Organization for Nuclear Research (CERN), Switzerland	October 2010
Cosmonaut Preparation Center in Korolev City, Russia	October 2009

VOLUNTEER SERVICE

Member of the organizing team of the CDT Easter School 2017, 2016 - 2017
University of Liverpool, Liverpool, UK.

Member of the organizing team of the forum of Department of Mathematics, 2013 - present
University of Athens, Athens, Greece.

Member of a number of Mathematics study groups (with a variety of subjects) and organizer of one, as a student at the University of Athens, Athens, Greece. 2013 - 2015