

Shimaa ELESAELY

CONTACT INFORMATION

ADDRESS: Cairo University, Faculty of Science,
Mathematics Department,
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PERSONAL INFORMATION

NATIONALITY: Egyptian
GENDER: Female
DATE OF BIRTH: December 7, 1991
STATUS: Single

EDUCATION

- OCT 2014- JULY 2017 Masters Degree in Stochastic Analysis, **Technische Universität Berlin**, Germany
Thesis title: "Stochastic Navier-Stokes Equations"
Advisor: Prof. Dr. Martina HOFMANOVA
Grade: A⁻
- OCT 2014- MAY 2017 Berlin Mathematical School (BMS) phase I, with Qualifying Exam, grade B⁺,
Berlin Mathematical School, Germany
- AUG 2013-JUN 2014 MSc in Mathematical Sciences, African Institute for Mathematical
Sciences (AIMS), **University of Cape Town**, South Africa
Essay title : "Game Options"
Advisor: Dr. Raouf GHOMRASNI
Graduated with distinction
- SEP 2012-2013 Pre-Master Student, **Cairo University**, Egypt
(transferred to
AIMS MSc) *Relevant courses:* Advanced Probability, Markov Chains, Measure Theory,
Advanced Stochastic Processes, Multivariate Statistics
- AUG 2008-MAY 2012 BSc in STATISTICS, **Cairo University**, Egypt
Graduation Project : "Time series and forecasting"
(GPA: 2.823, very good) the first position in the division of Statistics and the
second position in the Mathematics department, Faculty of Science

RESEARCH INTERESTS

Probability Theory, Stochastic Analysis, Stochastic Partial Differential Equations, Large Deviations Theory and Financial Mathematics

WORK EXPERIENCE

JULY 2017–NOW Teaching Assistant at Cairo University, Egypt
Courses: Calculus I, Introduction to Probability and Statistics,
Stochastic Processes, Mathematical Statistics, Time Series

MAY 2013–AUG 2013 Teaching Assistant at Cairo University, Egypt

WORKSHOPS, CONFERENCES AND TRAINING

DEC 2017 International Conference on Mathematics, Trends and Development
ICMTD17, Ain Shams University, Egypt

DEC 2017 Mathematical Analysis One Day Seminar, Suez Canal University, Egypt

OCT 2016 Stochastic Partial Differential Equations and Related Fields, Bielefeld
University, Germany

OCT 2016 The Mathematics of Disorder, Bonn University, Germany

AUG 2016 Conference in Honor of the 75th Birthday of S.R.S. Varadhan, TU Berlin,
Germany

JUL 2016 Crossroads: Workshop on Stochastic Analysis and Related Fields in Honor
of Peter Imkeller's 65th Birthday, Humboldt Graduate School, Germany

JUL 2016 7th European Congress of Mathematics, TU Berlin, Germany

DEC 2015 4th Annual ERC Berlin-Oxford Young Researchers Meeting on Applied
Stochastic Analysis, WIAS, Berlin, Germany

OCT 2015 Workshop Junior Female Researchers in Probability, WIAS, TU Berlin,
Germany

NOV 2014 Extrema of Branching Processes and Gaussian Free Fields workshop,
WIAS, TU Berlin, Germany

OCT 2014 Padova Young Researchers Meeting in Stochastic Analysis and applications
in Biology, Finance and Physics, WIAS, Potsdam, TU Berlin, Germany

JUL 2011-AUG 2011 Central Agency for Public Mobilization and Statistics in Egypt

SKILLS

LANGUAGE SKILLS Arabic: Mother tongue
English: C1
German: A1

COMPUTING SKILLS Programming languages: Java, Python, Sage, RStudio, LaTeX

SCHOLARSHIPS AND AWARDS

OCT 2014- MAR 2016 Berlin Mathematical School Phase I Scholarship, Masters degree
Scholarship

AUG 2013- JUN 2014 African Institute for Mathematical Sciences Bursary, AIMS Master's
programme

JUN 2014 Victor Rothschild Scholarship

MAY 2012 Moustafa Mosharafa Award

TALKS

- MAY 2017 Stochastic Navier-Stokes Equations
Defense of Master thesis, TU Berlin, Germany
- FEB 2017 Stochastic Navier-Stokes Equations
BMS Students Conference, Berlin Mathematical School, Germany
- JAN 2017 Strong Pathwise Solutions of the Stochastic Navier-Stokes System
Seminar Stochastic Partial Differential Equations, TU Berlin, Germany
- MAR 2016 Large Deviations in Finance
Seminar Stochastic Analysis and Quantitative Finance, TU Berlin, Germany
- FEB 2015 Consistent Term-Structure Parametrizations
Seminar Interest Rate Theory, TU Berlin, Germany
- JUN 2014 Game Options
Defense of Master thesis, Research Center Seminar, Cape Town, South Africa

ACTIVITIES

- Participated in Math competition at the American University in Cairo, 2008 and 2009
- Participated in Competition of Integration at Cairo university (2nd place), 2009
- Contributed articles on Functional analysis ([Normed spaces and Banach spaces](#)) to Wikipedia in Arabic, 2012

REFERENCES

- Prof. Dr. Martina Hofmanova
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Bielefeld University - Germany
- Prof. Dr. Jeff Sanders
sanders@aims.ac.za
Academic Director of AIMS South Africa
- Prof. Dr. Nasser Sweilam
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Cairo University- Egypt