

Mr. Filippo Pagani

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Background

Interested in Statistics, Numerical Analysis, Stochastic Processes, Uncertainty Quantification. Working on Markov Chain Monte Carlo methods, on both theory and applications. In particular, working on the ZigZag process for sampling.

Education

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| Sep 2016 – Current | University of Manchester (Manchester, UK)
PhD in Applied Mathematics
Project Title: Efficient Bayesian Inverse Problems with challenging posteriors
Won faculty prize for best Applied Maths First Year Report 2016/17
Won prize for best talk at MRSC2017 conference |
| Sep 2015 – Sep 2016 | University of Manchester (Manchester, UK)
MSc in Statistics (Main Statistics path), First Class honours.
Graduated first of my class, with accolade from Royal Statistical Society |
| Sep 2010 – Oct 2013
(Sep 2011 – Jan 2012) | L. Bocconi University (Milan, IT)
MSc in Economics and Social Sciences (ESS), Major in Econometrics and Statistics
Mannheim Universität (Mannheim, DE)
Erasmus Program – MSc in Economics |
| Sep 2007 – Sep 2010
(Jan 2010 – Feb 2010) | L. Bocconi University (Milan, IT)
BA in Management (CLEAM), Major in Economics and Statistics
ISB, Indian School of Business (Hyderabad, IN)
Campus Abroad Program |

Working Experience

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| Sep 2016 – current | Teaching Assistant, UoM (Manchester, UK)
MATH48122 – Markov Chain Monte Carlo, Spring 2017, Support
MATH19801 – Mathematics 0B1, Fall 2017, Leading Role
MATH48122 – Markov Chain Monte Carlo, Spring 2018, Support
MATH49111 – Scientific Computing, Fall 2018, Support
MATH48081 – Linear Models and Nonparametric Regression, Fall 2018, Support
MATH48122 – Markov Chain Monte Carlo, 2018, Support

Part of the lecture notes for the course MATH48122 – Markov Chain Monte Carlo are based on my MSc dissertation. |
| Jul 2015 – Sep 2015 | Consultant, Bip (Milan, IT)
IT consultant, working in the Data Center Operations of a big player in the telecommunications industry. Following topics of Data Center Management, Big Data and IT Strategy & Transformation |
| May 2015 – Jul 2015 | Global Business Development Manager, ABB (Milan, IT)
Business Development of the Solar segment in the Product Group Machinery Controls |

and Automation. Coordinating global and local sales, factory, stock and marketing. Sales responsible at global level

Jan 2015 – May 2015 **Area Manager Austria, ABB (Milan, IT)**
Business Development and Helsinki Factory Sales responsibility in Austria for the Machinery Drives product family

Sep 2012 – Jul 2015 **Global Analyst, ABB (Milan, IT)**
Market Analysis and Forecast. Direct data collection from the local sales units through a CRM tool of my own design and implementation, and presentation of the results to both technical and non-technical audience

Skills & Certificates

Languages **Italian:** Mother tongue
 English: Fluent
 German: Limited working proficiency (B1 Level)

Computer **OS:** Ubuntu (Linux), Windows, Mac
 Languages: C++, R, Matlab, Python
 Other: Microsoft suite + VBA, SharePoint 2010, SharePoint Designer 2010

Other Activities

Jul 2017 **Making Maths in Manchester (Manchester, UK)**
Outreach program for college students sponsored by the University of Manchester

Dec 2014 – Aug 2015 **Researcher, Crowd4Change (Milan, IT)**
Collaborating in the free time with the university Politecnico di Milano to create a cryptocurrencies observatory. Working on Time Series Analysis

Sep 2015 – present **Astronomical Society, University of Manchester (Manchester, UK)**
Active member of the society, participating to stargazing events, astrophysics lectures

Oct 2015 – present **Royal Statistical Society (UK)**
Member of the Royal Statistical Society, attended an accredited course

Publication List

An n-dimensional Rosenbrock Distribution for MCMC Testing	Submitted
The NuZZ: Numerical ZigZag sampling for General Models	Submitted
FiZZ: Firefly ZigZag for Efficient Exact Subsampling	In preparation