Mr. Filippo Pagani

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Background

Interested in Statistics, Probability, Numerical Analysis, Stochastic Processes, Uncertainty Quantification.
Working on Markov Chain Monte Carlo methods, on both theory and applications

Working Experience

Sep 2020 – Current	**Research Associate, University of Cambridge (Cambridge, UK)** Working with Sylvia Richardson and Paul Kirk on efficient MCMC methods for clustering on biomedical data
Sep 2016 – Sep 2020	**Teaching Assistant, University of Manchester (Manchester, UK)** MATH48122 – Markov Chain Monte Carlo, Spring 2017 MATH19801 – Mathematics 0B1, Fall 2017, Leading Role MATH48122 – Markov Chain Monte Carlo, Spring 2018 MATH49111 – Scientific Computing, Fall 2018 MATH48081 – Linear Models and Nonparametric Regression, Fall 2018 MATH48122 – Markov Chain Monte Carlo, Spring 2019
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

Education

Sep 2016 – Sep 2020	**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

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 free time with the university Politecnico di Milano to create a cryptocurrencies observatory. Working on Time Series Analysis
Sep 2015 – Sep 2020	**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
Short-term forecasts to inform the response to the Covid-19 epidemic in the UK	Submitted