Francesco Denti

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Currently I am a third year Ph.D. student in Statistics at University of Milan-Bicocca. My Ph.D. defense is expected to be at the end of January 2020. I am working on a joint Ph.D. dissertation with Professor Antonietta Mira at USI - Università della Svizzera italiana and Professor Michele Guindani at UCI - Univeristy of California Irvine. My primary research interests are Bayesian statistics, Bayesian Nonparametrics and Data Analysis.

Education

Nov 16–Now	**Ph.D. in Statistical Sciences**, University of Milan-Bicocca.
		Detailed List of Exams
Sep 14–Jul 16	**Master's Degree in Statistical and Economical Science**, *110 cum laude*, University of Milan-Bicocca.
	Thesis: "Modeling of extreme values using a Bayesian nonparametric approach to estimation of Poisson processes".
	Advisor: Andrea ONGARO. GPA: 30/30 , 12/13 distinctions.	Detailed List of Exams
Sep 11– Jul 14	**Bachelor's Degree in Statistical and Economical Science**, *110 cum laude*, University of Milan-Bicocca.
	Thesis: "Statistical modeling of extreme values".
	Advisor: Piero QUATTO. GPA: 29.7/30.	Detailed List of Exams
Sep 06– Jul 11	**Liceo Scientifico Sant'Ambrogio**, *Final grade: 97/100*, Milan.

Visiting Periods

Nov 18	**Scuola Internazionale Superiore di Studi Avanzati - SISSA, Trieste**.
	One week visiting period, invited by Prof. Alessandro Laio
Jan 18–Jun 18	**University of California, Irvine**, *Visiting Research Scholar*.
Jan 19 – Jun 19	Conducted research under the supervision of Professor Michele Guindani. Attended the course of Bayesian Statistics and Causal Inference.

Teaching

Sep 18 – Jan 19	**Teaching Assistant**, *MSc course in Statistics*, USI - Universtà della Svizzera italiana, (Eng).
Sep 17 – Jun 18	**Teaching Assistant**, *BSc course in Statistics*, Bocconi University, (Ita).
Sep 17	**Principal Instructor**, *MSc precourse in Statistics*, Cattolica University, (Eng).
Nov 15 – Now	**Teaching Assistant and Academic Tutor**, *BSc course in Probability (9 ECTS)*, University of Milan-Bicocca, (Ita).
Oct 16 – Dec 17	**Academic Tutor**, *MSc course in Bayesian Statistics (6 ECTS)*, University of Milan-Bicocca, (Ita).

Scholarships, Awards and Certificates

Jun 19	**Travel Support**, *BNP 12 - University of Oxford*.
	Selected as recepient of Travel Support funds for a Poster Presentation.
Nov 16–Now	**Ph.D. Scholarship**, *University of Milan-Bicocca*, Ph.D. Program in Statistical Sciences.
	Awarded with a merit-based scholarship.
Sep 2017	**Young CLADAG Competition**, *Politecnico di Milano*.
	Data science competition. Third best team in terms of algorithm predictive accuracy. Awarded with a grant offered by Fondazione CARIPLO. Presentation available here.
Jun 2017	**Stats Under the Stars 3**, *Florence*.
	Data science competition. Member of one of the four (out of 24) winning teams. Final Report available here.
Apr 2014	**SAS Base Programming certification**, *Score 95/100*.

Dec 2013	**SAS Enterprise Miner certification**, *Score 95/100*.

May 2010   **ECDL certification**.

Computer Programming

R, **Rcpp, SAS, Knime, Gretl, SPSS, Stata, Open Office, Microsoft Office, LATEX, C++, Python, SQL, OpenBUGS, Stan, MCMC**.

Courses, Summer Schools, Workshops and Seminars

Sep 2018   **FoMICS-DADSi Ond-Day School on Approximate Bayesian Computation - ABC**, *Università della Svizzera italiana (USI), Lugano*.

Jul 2019   **SIB 2019 - International Biometric Society Regions**, *Naples*, Talk.

Jul 2019   **BNP 12 - Bayesian Nonparametrics**, *University of Oxford, UK*, Poster.

June 2019   **SMI 19 - Statistical Methods in Imaging**, *University of California - Irvine*.

Sep 2018   **FoMICS-DADSi Summer School on Data Assimilation**, *Università della Svizzera italiana (USI), Lugano*.

Sep 2018   **MPS: The Mathematics of Subjective Probability**, *three days meeting at University of Milan - Bicocca*.

Jul 2018   **LMS Invited Lecture Series and CRISM Summer School in Computational Statistics 2018**, *University of Warwick*.

Jun 2018   **ISBA World Meeting**, *University of Edimburgh*.

Jan-Jun 2018 **Cycle of Winter and Spring quarters Seminars at UCI, Space-Time Modeling Group, Bayesian Journal Club**, *University of California - Irvine*.

Jun 2017   **Start up Research Workshop**, *University of Siena*.

May 2017   **International Summer School on Classification and Data Analysis**, *University of Bologna, Rimini*.

Jan 2017   **Understanding Bayesian Networks with Examples in R**, *University Cattolica del Sacro Cuore*.

Jan–Apr 16 **Statistical Learning Online Course**, *Stanford University*.
Certification of accomplishment.

Apr 2016   **Course in Analysis and Management of Geocoded Data**, *University of Milan-Bicocca*.

Publications and Projects

Submitted   **F. Denti, M. Guindani, F. Leisen, A. Lioji, M. Vannucci**, *"Two-group Poisson-Dirichlet mixtures for multiple testing"*, Under Invited Revision, Biometrics.

Dec 2018   **A. Caponera, F. Denti, T. Rigon, A. Sottosanti, and A.E. Gelfand.**, *"Hierarchical Spatio-Temporal Modeling of Resting State fMRI Data"*, In Studies in Neural Data Science (Canale, A., Durante, D., Paci, L., Scarpa, B., editors)*.

Oct 2018   **M. Petazzoni, E. De Giacinto, D. Troiano, F. Denti, M. Buiatti**, *"Computed Tomographic Trochlear Depth Measurement in Normal Dogs"* , Journal of Veterinary and Comparative Orthopaedics and Traumatology.

Jun 2016   **R. Menicagli, F. Denti.**, *"First results of an in vitro study on the effects of green tea on the defensive layer of the oral cavity"*, International Journal of Current Research.

Projects   Here you can find a collection of my best academic projects, along with my theses.

Other Activities and Affiliations

2019–Now   **Member of International Biometric Society (IBS-IR)** .

2018–Now   **Member of International Society for Bayesian Analysis (ISBA)**.
Also member of j-ISBA, the junior branch of ISBA.

2017–Now   **Member of Società Italiana di Statistica (SIS)**.
Also member of y-SIS, the young group of the Italian Statistical Society.

2015–Now   **Student Representative**.
Currently Ph.D. student represener in the CDD of my department. Held the role of head boy in the CCD of my university course. Dealing at the same time with collegues and professors, this experience enhanced my collaborative and cooperative skills.

2006 - Now   **Theater**, *Compagnia Me.te.or*, Mediglia.

Amateur-level actor and director in the theater company of my town. This remarkable experience keeps improving me in various ways, starting from my communication skills. Leading a group of teenagers with a common purpose, I enhanced both time management and team-work sides.

2017 - 2018   **Volounteer Data Scientist**, *Heart in Data*, Milan.

Heart in Data is a group of data professionists based in Milan (IT) offering their passion, dedication and talents for social good. Awarded the most innovative project at Open Days dell'Innovazione, Milan.

Languages

Italian	Native Speaker
English	Good Knowledge

Milan, 22th July 2019

Ph.D. in Statistical Sciences

Exam	Grade	ECTS
Analysis	26	5
Optimization	30 cum laude	5.25
Probability	30 cum laude	4.5
Stochastic Processes	30	3
Computational Statistics: Introduction to Simulation	30 cum laude	1.75
Computational Statistics: Computer Intensive inference	30 cum laude	1.5
Computational Statistics: Statistical Learning	30 cum laude	1.5
Computational Statistics: MCMC and Bayesian Methods	30 cum laude	1.5
Statistical Inference	30	4.5
Bayesian Statistics	30	1.5
Statistical Modeling: Model Selection	28	1.5
Statistical Modeling: Latent Variables	30	1.5

Master's Degree in Statistical and Economical Sciences

Exam	Grade	ECTS
Time Series and Longitudinal Data	30 cum laude	12
Applied Economics M	30 cum laude	6
Finance M	30 cum laude	12
Risk Management M	30 cum laude	12
Mathematics for economics I	30 cum laude	6
Mathematics for economics II	30 cum laude	6
Sampling methods M	30	6
Advance Microeconomics	30 cum laude	12
European Union Law	30 cum laude	6
Advanced Statistics	30 cum laude	12
Data and Text Mining	30 cum laude	6
Economic Statistics	30 cum laude	6
Stochastic Processes	30 cum laude	6
Other activities		2
Final Thesis		10
Total		120
Gpa		**30**

Bachelor's Degree in Statistical and Economical Sciences

Exam	Grade	ECTS
Industrial Economics	30 cum laude	6
Economics of Financial markets	30 cum laude	6
Market Analysis	30 cum laude	6
Econometrics	30 cum laude	6
Probability	30	9
Multivariate Statistical Analysis	30 cum laude	12
Calculus I	30 cum laude	9
Calculus II	30 cum laude	6
Data Mining	30	6
Corporate Finance	30 cum laude	6
Introduction to Computer Science	30	6
Programming Language Laboratory	Approved	3
Macroeconomics	30 cum laude	6
Mathematical Finance	30	6
Microeconomics	30	9
Analysis of Economic Time Series	30	9
Economic Statistics I	30 cum laude	6
Economic Statistics II	30	9
Statistics I	28	6
Statistics II	30 cum laude	15
Statistics III	30 cum laude	6
Linear algebra	26	6
Statistical Informatic Laboratory	30	6
Demography	30 cum laude	6
English	Approved	3
Final Thesis		6
Total		180
Gpa		**29.7**