Curriculum Vitae



Personal information

Name / Surname

Professional Email

Home page

Nationality

Date of birth

Gender

Andrea Cremaschi

andreacremaschi87@gmail.com

https://andcre87.github.io/andreacremaschi.github.io/

Italian

Nov 20th 1987

Male

Current Positions

Sep 2024- Now

Assistant Professor (tenure track)

School of Science and Technology, IE University, Madrid, Spain.

Previous Positions

Apr 2023 - Jul 2024

Senior Scientist I

Singapore Institute for Clinical Sciences (SICS), A*STAR, Singapore.

 $Feb\ 2023-Jul\ 2024$

Assistant Professor (Adjunct)

Department of Paediatrics, National University of Singapore (NUS), Singapore.

Sep 2020 – Apr 2023

Senior Research Fellow

Singapore Institute for Clinical Sciences (SICS), A*STAR, Singapore.

Aug 2019 – Aug 2020

 $\mathbf{PostDoc}$

Yale-NUS College, Singapore.

Oct 2016 - July 2019

PostDoc

Department of Cancer Immunology, Institute of Cancer Research, Oslo University Hospital, Oslo (Norway) and

Oslo Centre for Biostatistics and Epidemiology (OCBE), University of Oslo, Oslo (Norway)

Education

 ${\rm Sep}\ 2012 - {\rm Sep}\ 2016$

Ph.D. in Statistics, School of Mathematics, Statistics and Actuarial Science (SMSAS), University of Kent, Canterbury, Kent (UK)

Thesis title: "Comparing computational approaches to the analysis of high-frequency trading data using Bayesian methods"

Supervisors: Prof. J. E. Griffin and Dr. A. Kume

Sep 2009 - Apr 2012

Master Degree in Mathematical Engineering (Laurea Magistrale in Ingegneria Matematica), Politecnico di Milano, Milan (Italy)

Dissertation: "Model-based clustering via Bayesian nonparametric mixture models"

Supervisors: Prof. A. Guglielmi and Dr. R. Argiento

Sep 2006 - Sep 2009

Bachelor Degree in Mathematical Engineering (Laurea Triennale in Ingegneria Matematica), Politecnico di Milano, Milan (Italy)

Dissertation: "On the problem of dataset record-linkage: a probabilistic approach"

Supervisors: Prof. A. M. Paganoni and Dr. F. Ieva

Sep 2001 - Sep 2006

Maturitá scientifica. Ist. Giuseppe Peano, Cinisello B.mo, Milan (Italy)

Research Interests

My research interests include both methodological and applied aspects of Statistics, particularly within the Bayesian framework (both parametric and nonparametric), using flexible models for inference in scenarios where the data present non-standard features. These include scenarios where the data present deviations from standard assumptions, such as normality, homogeneity, non-linear relationships and group-specific dependencies. These features are often encountered in biomedical studies, a primary focus of my work, due to the complex phenomena typically investigated in this field. Nevertheless, my interests extend across various domains, including econometrics and behavioural science among others.

A considerable portion of my most recent work focuses on the implementation of advanced, often semi-parametric, Bayesian models to real-life data applications. In particular, I have been involved in the study of large longitudinal cohorts involving children and their parents, collecting a wealth of information including biological samples, behavioural traits and socio-demographic characteristics. These datasets are highly heterogeneous as they involve mixed-type responses, a wide range of predictors and time dynamics. In this framework, the application of Bayesian nonparametric models allows for a more flexible fitting. The focus of my work is on detection of modifiable factors for early intervention. The fields of research I mostly focus on are translational neuroscience, metabolomics and child development.

Besides biomedical applications, I am also interested in the cost-effectiveness analysis of intervention strategies in the framework of Health Economics, application of machine learning techniques to imaging, as well as population density dynamics. Recently, I have been involved in projects related to these fields of study, currently in their submission phase.

Through my work experiences, I have developed a strong interest for applications of Bayesian Statistics to different types of problems. Indeed, the trust of my research is to enrich the field of Bayesian Statistics with appealing modelling strategies, as well as algorithmic solutions, devised to offer deeper insights in the investigation of modern problems.

Publications

Harris A, **Cremaschi A**, Lim TS, De Iorio M, Kwa CG. "From Past to Future: Digital Methods Towards Artefact Analysis" *Digital Scholarship in the Humanities*, 2024 Oct 16.

Cremaschi A, Wertz T, De Iorio M. "Repulsion, Chaos and Equilibrium in Mixture Models" *Journal of the Royal Statistical Society B (Statistical Methodology)*, 2024 Oct 10.

Cremaschi A, van den Boom W, Beng Hui Ng N, Franzolini B, Tan KB, Chan Kok Yen J, Tan KH, Chong YS, Eriksson JG and De Iorio M. "Post-partum Screening for Type 2 Diabetes in Women with a History of Gestational Diabetes Mellitus: A Cost-Effectiveness Analysis in Singapore" *Value in Health*. accepted

Bischof K, **Cremaschi A**, Eroukhmanoff L, Landskron J, Flage-Larsen L, Gade A, Bjørge L, Urbanucci A and Taskén K. "Patient-derived ascites affects drug responses in ovarian cancer cell lines through the activation of key signaling pathways" *Molecular Oncology*. http://doi.org/10.1002/1878-0261.13726

Cremaschi A, Yang W, De Iorio M, Evans WE, Yang JJ and Rosner GL (2024) "Bayesian modelling of response to therapy and drug-sensitivity in acute lymphoblastic leukemia" *Statistics in Biosciences*. doi:10.1007/s12561-024-09437-6

Husain SF, **Cremaschi A**, Suaini NHA, De Iorio M, Loo EXL, Shek LP, Goh AEN, Meaney MJ, Tham EH and Law EC (2024) "Maternal asthma symptoms during pregnancy on child behaviour and executive function: A Bayesian phenomics approach". *Brain, Behavior, and Immunity*, https://doi.org/10.1016/j.bbi.2024.02.028

Cremaschi A, De Iorio M, Kothandaraman N, Yap F, Tint MT and Eriksson J (2024) Joint modelling of association networks and longitudinal biomarkers: an application to child obesity. *Statistics in Medicine*, https://doi.org/10.1002/sim.9994

Kee MZL, **Cremaschi A**, De Iorio M, Chen H, Montreuil T, Nguyen TV, Côté SM, O'Donnell KJ, Giesbrecht GF, Letourneau N, Chan SY and Meaney MJ (2023) Perinatal Trajectories of Maternal Depressive Symptoms in Prospective, Community-Based Cohorts across Three Continents. *JAMA Network Open*, 6(10), e2339942-e2339942.

Cremaschi A, Argiento R, De Iorio M, Shirong C, Chong YS, Meaney MJ, Kee MZ (2022) Seemingly Unrelated Multi-State processes: a Bayesian semiparametric approach. *Bayesian Analysis*, 1(1), pp.1-23.

Mozdzen A, Cremaschi A, Cadonna A, Guglielmi A, Kastner G (2022) Bayesian modeling and clustering for spatio-temporal areal data: an application to Italian unemployment. *Spatial Statistics*, 52, p.100715.

Franzolini B, **Cremaschi A**, Boom WvD and De Iorio M (2022) Bayesian clustering of multiple zero-inflated outcomes. "Bayesian Inference: Challenges, Perspective, and Prospects" issue of *Philosophical Transactions of the Royal Society A*, guest edited by Professor Michael Jordan, Professor Christian Robert and Professor Judith Rousseau.

Molinari M, **Cremaschi A**, De Iorio M, Chaturvedi N, Hughes AD, Tillin T (2022) Bayesian Dynamic Network Modelling: an application to metabolic associations in cardiovascular diseases. *Journal of Applied Statistics*, pp.1-25.

Molinari M, Cremaschi A, De Iorio M, Chaturvedi N, Hughes AD, Tillin T (2022) Bayesian nonparametric modelling of multiple graphs with an application to ethnic metabolic differences. *Journal of the Royal Statistical Society: Series C (Applied Statistics)*, 71(5), 1181-1204.

Giliberto M, Thimiri Govinda Raj DB, **Cremaschi A**, Skånland SS, Gade A, Tjønnfjord GE, Schjesvold F, Munthe LA and Taskén K (2022) Ex vivo drug sensitivity screening in multiple myeloma identifies drug combinations that act synergistically. *Molecular Oncology*, 16(6), pp.1241-1258.

Cremaschi A, De Iorio M, Chong YS, Meaney MJ, Kee MZ (2021) A Bayesian nonparametric approach to dynamic item-response modelling: an application to the GUSTO cohort study. *Statistics in Medicine*, 40(27), pp.6021-6037.

Rønneberg L, **Cremaschi A**, Hanes R, Enserink J, Zucknick M (2021) bayesynergy: flexible Bayesian modelling of synergistic interaction effects in in-vitro drug combination experiments. *Briefings in Bioinformatics*, 22(6), p.bbab251.

Wade S, Piccarreta R, **Cremaschi A**, Antoniano-Villalobos I (2021) Colombian Women's Life Patterns: A Multivariate Density Regression Approach. *Bayesian Analysis*, 17(2), pp.405-433.

Skånland S, **Cremaschi A**, Bendiksen H, Hermansen JU, Raj D, Munthe LA, Tjønnfjord GGE and Taskén K (2020) An in vitro assay for biomarker discovery and dose prediction applied to ibrutinib plus venetoclax treatment of CLL. *Leukemia*, 34(2), 478-487.

Argiento R, **Cremaschi A**, Vannucci M (2019) Hierarchical Normalized Completely Random Measures to Cluster Grouped Data. *Journal of the American Statistical Association*, 1-43.

Cremaschi A, Argiento R, Shoemaker K, Peterson C, Vannucci M (2019) Hierarchical Normalized Completely Random Measures for Robust Graphical Modeling. *Bayesian Analysis* (honourable mention in Lindley prize 2019), 1-31.

Myhrvold IK, **Cremaschi A**, Hermansen JU, Tjønnfjord GE, Munthe LA, Taskén K and Skånland S (2018) Single cell profiling of phospho-protein levels in chronic lymphocytic leukemia. *Oncotarget*, 9(10), 9273-9284.

Neufuss J, Humle T, **Cremaschi A**, Kivell TL (2017) Nut-cracking behaviour in wild-born, rehabilitated bonobos (Pan paniscus): a comprehensive study of hand-preference, hand grips and efficiency. *American Journal of Primatology* 79.2: e22589.

Argiento R, **Cremaschi A**, Guglielmi A (2014) A "Density-Based" Algorithm for Cluster Analysis Using Species Sampling Gaussian Mixture Models. *Journal of Computational and Graphical Statistics*, 23(4), 1126-1142. DOI: 10.1080/10618600.2013.856796.

Pipeline

requested revisions

van den Boom W, **Cremaschi A**, Thiery A. "Doubly Adaptive Importance Sampling" arXiv preprint arXiv:2404.18556.

De Iorio M, van den Boom W, Beskos A, Jasra A, **Cremaschi A**. "Graph of Graphs: From Nodes to Supernodes in Graphical Models" *arXiv preprint arXiv:2310.11741*.

Cabral R, De Iorio M, **Cremaschi A**. "Where does the tail start? Inflection Points and Maximum Curvature as Boundaries"

Cremaschi A, Cadonna A, Guglielmi A, Quintana F. "A Bayesian time-varying random partition model for large spatio-temporal datasets" *arXiv preprint arXiv:2312.12396*.

Cremaschi A, Franzolini B "Matrix-variate priors for flexible mixture modelling of grouped data"

Cremaschi A, Franzolini B, De Iorio M, Fogel AM, Eriksson JG. "A joint approach to the analysis of longitudinal growth measures and eating behaviour questionnaires in the GUSTO cohort"

Mozdzen A, **Cremaschi A**, Kastner G, De Iorio M. "Core discovery via fully repulsive mixtures"

 $in\ preparation$

Other Scientific Output

Thway Tint M, **Cremaschi A** et al. "Body composition and bone health in women of reproductive age: Differential contributions by lean and fat mass"

Chan SY, Ngoh ZM, Huang P, **Cremaschi A**, Manahan A, Fortier MV, Meaney MJ, Tan AP (2023) Sex-Specific Brain Developmental Trajectories Across Childhood. *Biological Psychiatry*, 93(9):S240. DOI:https://doi.org/10.1016/j.biopsych.2023.02.602.

Cadonna A, **Cremaschi A**, Guglielmi A (2019) Bayesian modeling for large spatio-temporal data: an application to mobile networks. Contributed paper to SIS 2019 - Smart Statistics for Smart Applications.

Skånland S, **Cremaschi A**, Bendiksen H, Hermansen JU, Raj D, Munthe LA, Tjønnfjord GGE and Taskén K (2019) Ibrutinib plus Venetoclax synergistically reduces signaling and viability in CLL: implications for niomarker discovery: PB1870. *HemaSphere*, 3, 852.

Raj D, **Cremaschi A**, Skånland S, Gade A, Schjesvold F, Tjønnfjord GE, Geir E, Munthe LA and Taskén K (2019) In-vitro drug sensitivity screening in chronic lymphocytic leukemia (CLL) patient samples identifies drug candidates for precision cancer therapy: PF360. *Hemasphere*, 3, 132.

Raj D, **Cremaschi A**, Skånland S, Gade A, Schjesvold F, Tjønnfjord GE, Geir E, Munthe LA and Taskén K (2018) In-vitro drug sensitivity screening in chronic lymphocytic leukemia (CLL) primary patient samples identifies drug candidates for precision cancer therapy. *Blood*, 132, 4676.

Cremaschi A (2018) Stephen W. Looney, Joseph L. Hagan. Analysis of Biomarker Data: a Practical Guide. *Biometrical Journal* (book review).

Cremaschi A (2017) Comparing computational approaches to the analysis of high-frequency trading data using Bayesian methods. *PhD thesis dissertation*. University of Kent, Canterbury. https://kar.kent.ac.uk/60839/1/104Thesis_Cremaschi_Final.pdf

Cremaschi A, Griffin JE (2016) On the Study of Two Models for Integer-Valued High-Frequency Data. *Bayesian Statistics in Action - Proceedings of BAYESM 2016 Conference*, Springer.

Argiento R, **Cremaschi A**, Guglielmi A (2013) Cluster analysis of curved-shaped data with species-sampling mixture models. *Proceedings of SCo2013 - Complex Data Modeling and Computationally Intensive Statistical Methods for Estimation and Prediction*, ISBN 97888-6493-019-0.

Invited talks

 $at\ conferences$

2024 – Dec, 16

2024 – Jun, 25

2023 – Aug, 01

2018 – Dec, 14

2017 – Dec, 18

2016 – Dec, 9

seminars

2024 – Aug, 02

2024 – Jun. 05

2019 – Mar, 26

Cremaschi A, Franzolini B Matrix-variate priors for flexible mixture modelling of grouped data. CFE-CMStatistics 2024, London (UK).

van den Boom W, Cremaschi A, Thiery A *Doubly adaptive importance sampling*. EAC-ISBA Conference 2024, Hong Kong.

Cremaschi A, Wertz T, De Iorio M Repulsion, Chaos and Equilibrium in Mixture Models. 6th International Conference on Econometrics and Statistics (EcoSta 2023). Tokyo, Japan.

Cremaschi A, Skånland S, Taskén K, Zucknick M. "Gaussian graphical models for the analysis of phospho-flow cytometry data from drug combination experiments". CFE-CMStatistics 2018, Pisa (Italy).

Argiento R, Cremaschi A, Vannucci M. "A Hierarchical Nonparametric Approach for Robust Graphical Modelling". CFE-CMStatistics 2017, London (UK).

Cremaschi A, Griffin JE. "Bayesian inference and prediction for high-frequency data using Particle Filtering". CFE-CMStatistics 2016, Seville (Spain).

Cremaschi A, Wertz T, De Iorio M, Mozdzen A, Kastner G. Repulsion, Chaos and Equilibrium in Mixture Models. Department of Statistics, Seoul National University.

Cremaschi A, Wertz T, De Iorio M, Mozdzen A, Kastner G. Repulsion, Chaos and Equilibrium in Mixture Models. ISBA BNP Webinar (held online).

Cremaschi A, Argiento R, Vannucci M. "Hierarchical Normalized Completely Random Measures for Robust Graphical Modeling". Department of Mathematics, University of Oslo, Oslo (Norway).

Cremaschi A, Frigessi A, Taskén K, Zucknick M. "A Bayesian model for the Study of Drug-Jul, 19 Drug Interactions". Dept. of Mathematics, Politecnico di Milano, Milan (Italy).

Jul, 4 Cremaschi A, Frigessi A, Taskén K, Zucknick M. "A Bayesian approach to modelling drug interactions. An application to ovarian cancer data". Institute for Molecular Medicine Finland (FIMM), Helsinki (Finland).

2018 – Jan Cremaschi A, Griffin JE. "Bayesian analysis of high-frequency financial data". Dept. of Mathematics, Politecnico di Milano, Milan (Italy).

2014 – May Cremaschi A, Griffin JE. "Bayesian inference for integer-valued Lévy processes with non-Gaussian Ornstein-Uhlenbeck volatility modelling" Dept. of Engineering, Cambridge University, Cambridge (UK).

> Argiento R, Cremaschi A, Guglielmi A. "A "Density-Based" Algorithm for Cluster Analysis Using Species Sampling Gaussian Mixture Models". CNR - IMATI, Milano, (Italv).

2022 – Oct. 24 Cremaschi A, Wertz T, De Iorio M Repulsion, Chaos and Equilibrium in Mixture Models. BNP13 2022, Chile.

Cremaschi A, Argiento R, De Iorio M, Shirong C, Chong YS, Meaney MJ, Kee MZ (2021) Seemingly Unrelated Multi-State processes: a Bayesian semiparametric approach. ISBA 2021 (held online).

> Cremaschi A, Frigessi A, Taskén K, Zucknick M. A Bayesian model for the study of drug interactions. An application to ovarian cancer data. ISBS 2017, Vienna (Austria).

Cremaschi A, Frigessi A, Taskén K, Zucknick M. A Bayesian model for the study of drug interactions. An application to ovarian cancer data. ISCB 2017, Vigo (Spain).

Cremaschi A, Griffin JE. "Bayesian inference for high-frequency data using particle filtering". 3rd Bayesian Young Statisticians Meeting (BAYSM), Florence (Italy).

Cremaschi A, Griffin JE. "Bayesian inference for integer-valued Lévy processes with non-Gaussian Ornstein-Uhlenbeck subordinator". Research Student Conference (RSC) meeting, University of Nottingham, Nottingham (UK).

Competitive Funding

Beatriz Galindo Grant. Awarded by "Ministerio de Sciencia, Innovación y Universidades. Project title: Bayesian analysis of grouped data in complex settings. The grant could only be acquired if affiliated to a public University in Spain.

Human Potential Programme FY23 Prenatal / Early Childhood Grant. Awarded by A*STAR. PI: Andrea Cremaschi. Quantum: SGD 486,200. Project title: Children behaviour, emotional regulation and the complex interplay with maternal mental health.

SICS Emerging Principal Investigator award. Awarded by the Singapore Institute for Clinical Sciences (SICS), A*STAR. PI: Andrea Cremaschi. Quantum: SGD 150,000.

Scientific Awards

Lindley prize honourable mention for the paper "Hierarchical Normalized Completely Random Measures for Robust Graphical Modeling", published in Bayesian Analysis, 14(4), 1271-1301,

Scientific Activities

Member of the scientific organising committee of Satellite Workshop to ISBA World Meeting 2024, 25 Jun 2024 - 28 Jun 2024, USI, Lugano, Switzerland. Session organiser: "Applicationfocused Bayesian modelling".

Member of the local organising committee of Interpretable Inference via Principled BNP Approaches in Biomedical Research and Beyond, 08 Jul 2024 - 02 Aug 2024, IMS/NUS,

Member of the local organising committee of ISBA BNP networking meeting, 30 Jul 2024 -02 Aug 2024, IMS/NUS, Singapore.

Contribution to the organisation of Nutrition and Brain Health, NUS, Singapore.

Contribution to the organisation of Military Performance and Resilience in a Warming World, NUS, Singapore. Held on-board the Italian Navy Ship Francesco Morosini.

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2012 – Dec

Contributed talks

2021 – June, 28

2017 – Aug, 29

Jul, 10

2016 – Jun. 19

2014 – Apr. 28

2024

2024

2021

2019

Organiser

2024

2024

2024

2023 – Nov. 29

May, 4

2022 – Nov, 21

Support in the organisation of *Childhood Nutrition: Towards a Healthy Lifestyle*, NUS, Singapore.

From 2022

Organizer of the three-session track "Bayesian semi- and nonparametric modelling" for CM-Statistics, the International Conference of the ERCIM WG on Computational and Methodological Statistics. Joint with:

- 2022: B. Nipoti (University of Milan Bicocca) and F. Barrientos (University of Florida)
- 2023 Now: F. Barrientos (University of Florida) and Guillaume Kon-Kam-King (IN-RAE, National Research Institute for Agriculture, Food and Environment, France)

2022-2023

Session Organiser for the International Conference on Econometrics and Statistics (EcoSta), Japan.

2014

Seminar co-Leader for the Postgraduate and PhD seminars at the School of Mathematics, Statistics and Actuarial Science (SMSAS). University of Kent, Canterbury (UK).

Seminar Leader for the reading group: "Introduction to Stochastic Calculus". School of Mathematics, Statistics and Actuarial Science (SMSAS). University of Kent, Canterbury (UK).

Referee From 2023

Referee for the peer-reviewed journals Bayesian Analysis, Computational Statistics (COST).

From 2022

Referee for the peer-reviewed journals Annals of Applied Statistics, Australian & New Zealand Journal of Statistics, Briefings in Bioinformatics, Statistics in Medicine.

Others

2024

STAR Ambassador at A*GA (A*STAR Graduate Academy), "a vibrant community of student outreach participants committed to inspiring and engaging with future scientists". Singapore.

Visiting

2022 – Aug

Visiting Prof. Michael Meaney at The Douglas Research Centre, affiliated with McGill University and the Montreal West Island IUHSSC, Montreal, Canada.

2019 - May

Visiting Dr. Annalisa Cadonna at WU (Vienna University of Economics and Business).

2018 – Jul

Visiting Prof. Alessandra Guglielmi at the Dept. of Mathematics, Politecnico di Milano, Milan (Italy).

2017 – May

Visiting Prof. Tero Aittokallio and Dr. Krister Wennerberg at the Institute for Molecular Medicine Finland (FIMM), Helsinki (Finland).

2013 – May

Visiting Dr. Sara Wade and Prof. Zoubin Ghahramani at the Dept. of Engineering, University of Cambridge, Cambridge (UK).

Teaching/Supervision

2024/205

 $\label{thm:courses} \begin{tabular}{l} Teaching the courses \it Foundation \it Statistics \it and \it Probability \it and \it Introduction \it to \it Business \it and \it Social \it Analytics \it at the School of Science \it and \it Technology, \it IE University, \it Madrid, Spain. \it and \it Madrid, \it Madrid, \it Spain. \it and \it Madrid, \it$

2023/2024

Ph.D. visit, Mozdzen A., project title: "Bayesian modelling of obesity, asthma, and hypertension in children"

- Supervisors: Gregor Kastner (University of Klangefurt, Austria)
- Singapore-based Supervisors: Andrea Cremaschi, Maria De Iorio (NUS, A*STAR)

The student visited the Singapore Institute for Clinical Sciences (SICS), A*STAR, Singapore.

2022/2023 2023/2024

Lakshmanan G., project title: "Structural Equation Models"

- Supervisor: Andrea Cremaschi (NUS, A*STAR)
- co-Supervisor: Maria De Iorio (NUS, A*STAR)

The student visited the Singapore Institute for Clinical Sciences (SICS), A*STAR, Singapore. In 2022/2023 as an intern; in 2023/2024 under the A*GA - Singapore International Pre-Graduate Award (SIPGA) programme.

2021/2022

Co-supervision of final "capstone" projects of students from Yale-NUS college, Singapore.

Main supervisor: Prof. Maria De Iorio (NUS, A*STAR).

- Yoon S: "Bayesian Multiple Response Model through RegressiOn Graph Universal Estimator".
- Ropion MDV: "Probability Theory as an Approximation of Reality".

2021/2022

Co-supervision of final "capstone" projects of students from Yale-NUS college, Singapore. Main supervisor: Prof. Maria De Iorio (NUS, A*STAR).

- Yoon S: "Bayesian Multiple Response Model through RegressiOn Graph Universal Es-
- Ropion MDV: "Probability Theory as an Approximation of Reality".

2021 - Sep, 23

Masterclass on "Statistical Analysis of Questionnaire Data" for the Ministry of Education of Singapore (MOE), MOE Research Forum. Lecture (1h) by Prof. Maria De Iorio; Practical (1h) by Andrea Cremaschi.

2020 – Dec

Lecture talk to the students of the course of Bayesian Statistics "A change-point random partition model for large spatio-temporal datasets". Cremaschi A, Cadonna A, Guglielmi A, Quintana F. Politecnico di Mialno, Milan (Italy).

2019 - Jul

Lecture talk to the students of the course of Bayesian Statistics "A Bayesian model for the Study of Drug-Drug Interactions". Cremaschi A, Frigessi A, Taskén K, Zucknick M. Politecnico di Mialno, Milan (Italy).

2018 - Nov

PhD lecture from "A Bayesian analysis of some nonparametric problems" by Ferguson, T. S. The Annals of Statistics (1973): 209-230. Dept. of Mathematics, University of Oslo (Norway).

2017 – Aug-Dec

Masters Degree dissertation. Cominelli M. "Bayesian mixture models for the analysis of pFLOW data: an application to a Chronic Lymphocytic Leukemia dataset".

Supervisors: Guglielmi A and Cremaschi A.

The student visited the Oslo Center for Biostatistics and Epidemiology (OCBE), Oslo (Norway).

2014 - 2015

Lecturer for the course Foundation Statistics (approximately 50 students and 48 contact hours). Set and marked the assessments and final examination. School of Mathematics, Statistics and Actuarial Science (SMSAS), University of Kent, Canterbury (UK).

2015 - 2016

Tutor for the course Stage 1 Mathematics. School of Mathematics, Statistics and Actuarial Science (SMSAS), University of Kent, Canterbury (UK).

2013 - 2016

Assessment and marking of undergraduate modules (Stage 1 Mathematics,). School of Mathematics, Statistics and Actuarial Science (SMSAS), University of Kent, Canterbury (UK).

Skills

Software Languages Experienced programmer in R, C/C++, Rcpp, Matlab, Python, BUGS.

English (fluent); Italian (mother tongue); Spanish (intermediate); Norwegian (beginner).

References

Prof. Maria De Iorio Current Reporting Officer Professor at Yong Loo Lin School of Medicine, National University of Singapore, Singapore; Principal Investigator at SICS (A*STAR)

email: mdi@nus.edu.sg

Prof. Jim Griffin

PhD Supervisor

Professor of Statistical Science, Department of Statistical Science, UCL (UK)

email: j.griffin@ucl.ac.uk

Prof. Alessandra Guglielmi

Master's Supervisor

Full Professor in Statistics, Department of Mathematics, Politecnico di Milano (Italy) email: alessandra.guglielmi@polimi.it

Prof. Raffaele Argiento

Statistics at the Department of Economics, Universitá degli Studi di Bergamo (Italy) email: raffaele.argiento@unibg.it

Master's co-Supervisor

Prof. Fernando A. Quintana Collaborator Profesor Titular, Departamento de Estadística, Facultad de Matemáticas, Pontificia Universidad Católica de Chile (Chile)

email: quintana@mat.uc.cl