Marta Crispino

Citizenship: Italian
DoB: 15/06/1987

CONTACT INFORMATION	Mistis group, Inria Grenoble Email: marta.crispino@inria.fr 655 Avenue de l'Europe, 38330 Montbonnot-Saint-Martin, France.	*Mobiles:* (+39) 3930777684 (+33) 769218667

RESEARCH INTERESTS

Bayesian parametric and nonparametric statistics, statistical methods for large datasets, statistics for preference learning, statistical applications

PROFESSIONAL EXPERIENCE

Postdoctoral fellow, Mistis group, Inria Grenoble, (March 2018 - current)
Research affiliate, University of Oslo, Norway (Sept 2017 - Jan 2018)

EDUCATION

Bocconi University, Milano, Italy

Ph.D. Statistics, Jan 2018
- Dissertation Topic: "Bayesian Preference Learning of Ranking data"
- Advisor: Arnoldo Frigessi (University of Oslo)
- Co-advisors: Elja Arjas (University of Helsinki) and Sonia Petrone (Bocconi University)
- External Reviewers: Jukka Corandel and David Leslie
- Thesis board: Carlo Baldassi, Daniele Durante and Sonia Petrone

Bocconi University, Milano, Italy

M.Sc., Economics and Social Sciences (110/110 cum laude), Mar 2013
- Dissertation Topic: "Bayesian Learning of Bayesian Networks"
- Advisor: Sonia Petrone

University of Milano, Milano, Italy

B.Sc., Physics (102/110), Dec 2009
- Dissertation Topic: "Superluminal Behavior in Wave Proparagation"
- Advisor: Andrea Carati

RESEARCH VISITS

University of Oslo, Oslo, Norway

Visiting research student, Aug 2015 - Aug 2017 (with gaps)
- Project: "A Bayesian Mallows Approach To Non-Transitive Pair Comparison Data"
- Mentors: Arnoldo Frigessi and Elja Arjas
- Collaborators: Valeria Vitelli and Natasha Barrett

University of Oslo, Oslo, Norway

Visiting student, Mar - July 2012
- Project: "Structure Learning of Bayesian networks"
- Mentor: Arnoldo Frigessi

HONORS AND AWARDS

ISBA young researcher award, Dec 2017
Best PhD student award: Bocconi University, Sept 2014
Cariplo Travel Support for the period at the University of Oslo, Aug 2015 - June 2016
Bocconi Travel Support for the period at the University of Oslo, Oct 2016
Research Unit 1735 scholarship: Machine Learning Spring School, Sylt, Germany, Mar 2015

Selected for StartUp Research: Siena, June 2017
Bocconi PhD fellowship (4 years, 2013-2017)

SKILLS	<u>Statistical softwares</u>: R, C++, Matlab (basic), Stata (basic)

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<u>Algorithms</u>: MCMC simulations of Bayesian posterior distributions (Gibbs sampling, importance sampling and M-H schemes), Approximate Bayesian Computation
<u>Language</u>: Italian (mother tongue), English (fluent), French (intermediate), Norwegian (basic)

ACADEMIC EXPERIENCE

Part of the organizing committee of IFSS, Grenoble University, Sept 2018
Part of the organizing committee of BISP10, Bocconi University, June 2017
Organizer of symposium for PhD students, University of Oslo, May 2016
Erasmus at University of Strasbourg, France,Jan-Sept 2009

TEACHING EXPERIENCE

Lecturer in Introductory Statistics for medical students, University of Oslo (PhD level, Nov 2017)
TA in Time Series Analysis, Bocconi (MSc level, Feb - July 2015 and 2017)
TA in Introductory Statistics, Bocconi (BSc level, Sept - Dec 2014)

PEER REVIEWED PAPERS

Vitelli, V., Sørensen Ø, **Crispino, M.**, Arjas, E., Frigessi, A., "*Probabilistic preference learning with the Mallows rank model*". Journal of Machine Learning Research (2018).

Barrett, N., **Crispino, M.**, "*The Impact of 3-D Sound Spatialisation on Listeners' Understanding of Human Agency in Acousmatic Music*". Journal of New Music Research (2018).

Crispino, M., Arjas, E., Vitelli, V., Barrett, N., Frigessi, A., "*A Bayesian Mallows approach to non-transitive pair comparison data: how human are sounds?*". The Annals of Applied Statistics, R&R, minor revision required.

Liu, Q., **Crispino, M.**, Frigessi, A., Solbergersen, L.C., Vitelli, V., "*Model-based learning from preference data*". Annual Review of Statistics and Its Application. To appear.

Ranciati, S., **Crispino, M.**, D'Angelo, S., Mira, A., "*Understanding dependency patterns in structural and functional brain connectivity through fMRI and DTI data*". Contributions to Neural Data Science, Springer volume "Proceedings in Mathematics & Statistics". Under review.

CONFERENCE PROCEEDINGS

Crispino, M., Arjas, E., Vitelli, V., Frigessi, A., "*Recommendation from intransitive pairwise comparisons*". http://ceur-ws.org/Vol-1688/paper-02.pdf, RecSysPosters2016.

PAPERS IN PREPARATION

Alpino, M., **Crispino, M.**, "*Majority status as a confounder in RD studies of close elections*".

Crispino, M., Antoniano, I., "*Conjugate prior elicitation in the Mallows model with Spearman distance*".

Asfaw, D., **Crispino, M.**, Frigessi, A., "*A picture of the shared wishes about university studies of Ethiopian high school students*".

Crispino, M., Frigessi, A., "*A Hierarchical Bradley-Terry model*".

INVITED PRESENTATIONS

BIG seminar Grenoble, France, Apr 2018
ERCIM, London, UK, Dec 2017
Internal seminar, OCBE, Oslo University, Norway, Mar 2016

CONTRIBUTED PRESENTATIONS

BAYSM18, Warwick, UK, June 2018 (poster)
ISBA, Edinburgh, UK, June 2018 (poster)
O'Bayes, Austin, USA, Dec 2017 (poster)

JSM, Baltimore, USA, Aug 2017
BISP10, Milan, Italy, June 2017 (poster)
Bocconi University, June 2017 (PhD 4th year presentation)
BAYSM16, Florence, Italy, June 2016
ISBA, Sardinia, Italy, June 2016 (poster)