



Christophe A.N. Biscio

ASSOCIATE PROFESSOR · STATISTICIAN · DATA SCIENTIST

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Employments

Associate Professor, AALBORG UNIVERSITY, DENMARK

Since Oct. 2020

- Continue on Assistant Professor tasks.

Assistant Professor, AALBORG UNIVERSITY, DENMARK

Sept. 2016 - Sept. 2020

- Numerous student projects supervision
- Publications in top journals in mathematical statistics.

Post doc, AALBORG UNIVERSITY, DENMARK

Sept. 2015 - Aug. 2016

- Topological Data Analysis uses in Spatial Statistics

Research

Research Interests in mathematics and statistics

- Topological Data Analysis, Mathematical Statistics, Determinantal Point Processes, Asymptotic Theory, Spatial Point Processes, Spatial Statistics, Time series.

PhD co-supervisor Ninna Vihrs: Contribution to the statistical theory of point processes. Started in 2018.

Reviewer for various scientific journals, including some of the most prestigious journal in probability and statistics

- Computational Statistics and Data Analysis, Scandinavian Journal of Statistics, Journal of Multivariate Analysis, Applications of Mathematics, Statistical and Probability Letters, Biometrics, Applied Stochastic Models in Business and Industry, Biometrical Journal, Advances in Statistical Analysis.

International Network of Collaborators

- in various fields: mathematics, statistics, computer sciences, climate sciences, chemistry, and energy technology
- across several countries: Belgium, Canada, Denmark, France, Czech Republic, Netherlands and Sweden.

Working papers

- Christophe A.N. Biscio and Anne Marie Svane. **A general central limit theorem for Ripley's K function.**
- Christophe A.N. Biscio and Ege Rubak. **Effective simulation algorithm for Determinantal point processes.**
- Christophe A.N. Biscio, Florent Bonneu. **Rates of convergence for statistical methods in spatial statistics.**
- Mayer Arnulf, Christophe A.N. Biscio, Justus Kaufmann and Ege Rubak. **Point processes methods in cancer detection.**

Education

PhD in Mathematical Statistics, UNIVERSITY OF NANTES, FRANCE

Sept. 2012 - Sept. 2015

Subject: Contribution to the modelling and the parametric estimation of determinantal point processes.

Master's Degree in Mathematics, UNIVERSITY OF RENNES, FRANCE

2012

Aggregation of Mathematics, National french competitive exam for teaching in higher education.

2011

Grants

2019 **Carlsberg Foundation**, 40,200 DKK, Conference on Data Science

Aalborg, Denmark

Skills

Programming

R, Shiny, Python, LaTeX

Languages

French (Native), English (Upper-intermediate - Oral C1), Danish (B2 - Prøve i Dansk 3), Italian (moderate)

Project Supervision

Numerous data analysis projects for Bachelor and Master students.

Organisation of Conferences

2021	Organising Committee , Set estimation: a bridge between Spatial Statistics and Stochastic Geometry	<i>Luminy, France</i>
2020	Organising Committee , Conference in Data Science	<i>Aalborg, Denmark</i>
2018	Scientific and Organising Committee , 12th Workshop on Spatial Statistics and Image Analysis in Biology	<i>Aalborg, Denmark</i>
2017	Scientific and Organising Committee , Points in time and space	<i>Aalborg, Denmark</i>

Administrative responsibilities

Since 2018	Arbejdsmiljørepræsentant (working environment representative) at department of mathematical sciences	<i>Aalborg, Denmark</i>
Since 2018	Coordinator of the 5th semester at the department of mathematical sciences	<i>Aalborg, Denmark</i>
2015	PhD students representative at the council of the Henri Lebesgue Center	<i>Rennes, France</i>
2013-2015	PhD students representative at the council of the Laboratory of Mathematics Jean Leray	<i>Nantes, France</i>

Talks

INVITED SPEAKER

2021	10th International Workshop on Applied Probability, IWAP 2021	<i>Thessaloniki, Greece</i>
2020	Stochastic Modelisation and Statistics Days	<i>Orléans, France</i>
2020	Workshop on determinantal point processes	<i>Grenoble, France</i>
2019	12th International Conference of the ERCIM WG on Computational and Methodological Statistics	<i>London, United Kingdom</i>
2018	40th Stochastic Processes and their Applications International Conference	<i>Göteborg, Sweden</i>
2018	9th International Workshop on Applied Probability	<i>Budapest, Hungary</i>
2016	Lecture on determinantal point processes at the Laboratory of Mathematics	<i>Lille, France</i>
2013-2015	7 talks at the seminars of the mathematical department of several French universities: Nantes, Lille, Rouen, Grenoble, Besançon	

CONTRIBUTED SPEAKER

2017	19th Workshop on Stochastic Geometry, Stereology and Image Analysis (SGSIA 2019)	<i>Luminy, France</i>
2016	Workshop on Geometry and Stochastic of Non-linear, Functional and Graph Data	<i>Bornholm, Denmark</i>
2016	Workshop on Spatial Statistics and Image Analysis in Biology (SSIAB11)	<i>Rennes, France</i>
2015	11th Workshop of the CSGB - Center for Stochastic Geometry and Advanced Bioimaging,	<i>Aarhus, Denmark</i>
2015	6th Meeting of the Young Statistician of the SFdS (French statistical society)	<i>Bordeaux, France</i>
2015	4th Stochastic Geometry Days of the GdR GeoSto	<i>Poitiers, France</i>
2015	Spatial Statistics: Emerging Patterns	<i>Avignon, France</i>

Teaching

Since 2018	Lecturer , PhD course Design and Analysis of Experiments	<i>Aalborg, Denmark</i>
2018	Supervisor , Master Thesis: Inference for high dimensional data	<i>Aalborg, Denmark</i>
Since 2017	Lecturer , Probability for 4th semester students	<i>Aalborg, Denmark</i>
Since 2016	Supervisor , Numerous projects in statistics and data science on times series, statistical modelling, control theory, neural networks and geostatistics for both undergraduate and graduate students	<i>Aalborg, Denmark</i>
Since 2018	Lecturer , Mathematics for 2nd semester students in economy	<i>Aalborg, Denmark</i>
2015	Teaching Assistant , Data analysis and statistics for 2nd year students in business tutorials and practical works with SPSS	<i>Aalborg, Denmark</i>
2012-2015	Teaching Assistant , Various lectures in Statistics and Probability	<i>Nantes, France</i>