

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.

Recent research stays

- 2019 One week visiting Florent Bonneu, University of Avignon, France.
- 2019 One week visiting Zbynek Pawlas, Charles University, Czech Republic.

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 and 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

Agregation 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	Luminy, France
2020	Organising Committee, Conference in Data Science	Aalborg, Denmark
2018	Scientific and Organising Committee , 12th Workshop on Spatial Statistics and Image Analysis in	Aalborg, Denmark
	Biology	Adiborg, Delillidik
2017	Scientific and Organising Committee, Points in time and space	Aalborg, Denmark

Administrative responsibilities ______

Arbejdsmiljørepræsentant (working environment representative) at department of	Aalborg, Denmark
mathematical sciences	Autborg, Definition
Coordinator of the 5th semester at the department of mathematical sciences	Aalborg, Denmark
PhD students representative at the council of the Henri Lebesgue Center	Rennes, France
PhD students representative at the council of the Laboratory of Mathematics Jean Leray	Nantes, France
	Coordinator of the 5th semester at the department of mathematical sciences PhD students representative at the council of the Henri Lebesgue Center

Talks_____

INVITED SPEAKER

2021	10th International Workshop on Applied Probability, IWAP 2021	Thessaloniki, Greece	
2020	Stochastic Modelisation and Statistics Days	Orléans, France	
2020	Workshop on determinantal point processes	Grenoble, France	
2019	12th International Conference of the ERCIM WG on Computational and Methodological	Landan United Kingdom	
2019	Statistics	London, United Kingdom	
2019	Seminar of the department of Probability and Mathematical Statistics	Prague, Czech Republic	
2019	Seminar of the department of Mathematics	Avignon, France	
2018	40th Stochastic Processes and their Applications International Conference	Göteborg, Sweden	
2018	9th International Workshop on Applied Probability	Budapest, Hungary	
2016	Lecture on determinantal point processes at the Laboratory of Mathematics	Lille, France	
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)	Luminy, France
2016	Workshop on Geometry and Stochastic of Non-linear, Functional and Graph Data	Bornholm, Denmark
2016	Workshop on Spatial Statistics and Image Analysis in Biology (SSIAB11)	Rennes, France
2015	11th Workshop of the CSGB - Center for Stochastic Geometry and Advanced Bioimaging,	Aarhus, Denmark
2015	6th Meeting of the Young Statistician of the SFdS (French statistical society)	Bordeaux, France
2015	4th Stochastic Geometry Days of the GdR GeoSto	Poitiers, France
2015	Spatial Statistics: Emerging Patterns	Avignon, France

Teaching _____

Since 2018	Lecturer, PhD course Design and Analysis of Experiments	Aalborg, Denmark
2018	Supervisor, Master Thesis: Inference for high dimensional data	Aalborg, Denmark
Since 2017	Lecturer , Probability for 4th semester students	Aalborg, Denmark
Since 2016	Supervisor , Numerous projects in statistics and data science on times series, statistical modelling,	Aalborg, Denmark
3111CE 2016	control theory, neural networks and geostatistics for both undergraduate and graduate students	
Since 2018	Lecturer , Mathematics for 2nd semester students in economy	Aalborg, Denmark
2015	Teaching Assistant , Data analysis and statistics for 2nd year students in business tutorials and	Aalborg, Denmark
2015	practical works with SPSS	
2012-2015	Teaching Assistant, Various lectures in Statistics and Probability	Nantes, France