Saint-Clair Chabert-Liddell

Eligible for jeune docteur contract



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Chabert-Liddell

November 1978 • Married • French citizen

Research Themes

Methods: Networks, Latent variable models, Clustering, Random graphs, Variational inference

Applications: Social sciences, Life sciences

Experience

INRAE, UMR Marbec/UMR MIA Paris-Saclay

Postdoctoral researcher 09-2022 – . . .

Statistical and deep learning methods to infer collaboration networks from fishing boats trajectories.

Agroparistech Innovation

Research & development engineer 05–08 2022

Studied and compared bayesian inference algorithms for hierarchical models.

Agroparistech

Lecturer 2018 – 2022

Teached tutorial and practical work in statistics and data science for MSc and BSc in engineering

Professional poker player 2006 – 2015

Played mostly on-line while traveling in over 20 different countries.

Focus on poker theory and modeling with advanced usage of dedicated analytical tools.

Education

PhD in Applied Mathematics.....

2018 - 2022: Paris-Saclay University / INRAE

Title: Statistical learning of collections of networks with applications in ecology and sociology

Supervisors: Sophie Donnet, Pierre Barbillon UMR MIA-Paris

Methods: Networks, Latent variable models, Clustering, Random graphs, Variational inference

Applications: Social sciences, Ecology

UPMC – Sorbonne University Paris

Master in applied mathematics – specialization in statistics, highest honors

2016 - 2018

Skills

Computer skills....

R: Package development

Python: pytorch **other**: LaTEX, Linux, C++, git

Languages.....

French: Native language English: Scientifc level

Japanese: Conversational level JLPT N2

Publications

Saint-Clair Chabert-Liddell, Pierre Barbillon, Sophie Donnet, and Emmanuel Lazega. A stochastic block model approach for the analysis of multilevel networks: An application to the sociology of organizations. Computational Statistics & Data Analysis, 158:107179, 2021.

Saint-Clair Chabert-Liddell, Pierre Barbillon, and Sophie Donnet. Impact of the mesoscale structure of a bipartite ecological interaction network on its robustness through a probabilistic modeling. Environmetrics, 33(2):e2709, 2022.

Chabert-Liddell, Saint-Clair, Pierre Barbillon, and Sophie Donnet. Learning common structures in a collection of networks. an application to food webs. arXiv preprint arXiv:2206.00560, 2022.

Software

MLVSBM: R package for the simulation, inference and clustering of multilevel networks

http://Chabert-Liddell.github.io/MLVSBM, available on cran

robber: R package for computing the robustness of bipartite ecological interaction networks

http://Chabert-Liddell.github.io/robber, available on cran

colSBM: R package for analyzing the common structures in collection of networks

http://Chabert-Liddell.github.io/colSBM

hbm4ecology: Companion R package for the book Introduction to hierarchical bayesian modeling for ecological data, (Parent & Rivot, 2012)

http://www.hbm-for-ecology/rpackage

Talks

Conference.....

18th Conference of Applied Statistics

Ljubljana

Learning common structures in a collection of networks Invited session

2022

Online

EUSN 2021 - 5th European Conference on Social Networks

A Stochastic Block Model for collection of networks: Do the networks share a common structure? 2021

JDS 2021 : 52ème Journées de Statistique de la SFDS

Online 2021

A stochastic block model for multilevel networks

Online

Sunbelt Stochastic block model for multilevel networks unravels structural interdependence

between the social and economic networks in a TV program trade fair

2020

Teaching

Agroparistech	16h30
Practical work in Data Science: Statistical Learning, MSc in engineering 1st year	2020 – 2022
Agroparistech	33h
Tutorial in Statistics, BSc in engineering 3 rd year	2018 - 2021
Agroparistech	13h30
Practical work in Linear Model, MSc in engineering 1 st year	2018 – 2020
A	21

Agroparistech

3h

Advanced Course in Mathematics: Introduction to Measure Theory, MSc in engineering 1st year 2018

Miscellaneous

Travel: World tour while playing poker **Sports**: Hiking, swimming, cycling, bouldering

Culture: Art-house cinema