

Yiye Jiang

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Education

December 2022: Institut de Mathématiques de Bordeaux, France

Thesis title: *Statistical analysis of spatio-temporal and multi-dimensional data from a network of sensors.*

Supervisors: Jérémie BIGOT, Sofian MAABOUT

Funding : MESRI

November 2018: Université de Bordeaux, France

M.Sc. in Modelling of Images and Signals

December 2018: Xiamen University, China

M.Sc. in Probability and Mathematical Statistics

July 2015: Xiamen University, China

B.Ec. in Financial Mathematics

July 2015: Xiamen University, China

B.Sc. in Mathematics and Applied Mathematics

Research articles

1. Y. Jiang. Wasserstein multivariate autoregressive models and its application in graph learning from distributional time series. arXiv preprint arXiv: 2207.05442. 2022.
2. Y. Jiang, G Vergara-Hermosilla. Machine learning-based modelling and forecasting of covid-19 under the temporally varying public intervention in the Chilean context. Hal preprint arXiv: hal-03680677. 2022.
3. Y. Jiang, J. Bigot & S. Maabout. Online graph topology learning from matrix-valued time series. arXiv preprint arXiv:2107.08020. 2021.
4. Y. Jiang, J. Bigot & S. Maabout. Sensor selection on graphs via data-driven node sub-sampling in network time series. arXiv preprint arXiv:2004.11815. 2020.
5. Y. Jiang, J. Bigot, E. Provenzi. Commutativity of spatiochromatic covariance matrices in natural image statistics. *Mathematics in Engineering*. 2020, 2(2): 313-339. *The work is conducted in the context of the Master 2 internship at Institut de Mathématiques de Bordeaux.*

Reports

F. Coppini, Y. Jiang, S. Tabti. Predictive models on 1D signals in a small-data environment. Hal: hal-03211100. 2020. *This report is the result of work during the Semaine d'Études Mathématiques et Entreprises, where 4 teams of PhD students were dedicated to solve the problems proposed by the partner companies.*

Talks

October 2022: Seminar of Image Optimisation and Probability (IOP) team, Institut de Mathématiques de Bordeaux, Bordeaux

August 2022: Journées MAS 2022, Rouen

October 2021: Colloque des jeunes Probabilistes et Statisticiens 2021, île d'Oléron

Teaching

September 2022 - present: Temporary teaching-research position (ATER) à l'Université de Bordeaux

- Chargé de TD en Fonctions de plusieurs variables L2
- Chargé de TD en Outils mathématiques L1

February 2022 - July 2022: ATER à l'Université de Bordeaux

- Chargé de TD en Algèbre linéaire L1
- Chargé de TP en Statistique nonparamétrique M1
- Supervision of project *Algorithmes stochastiques pour la régression logistique* and defenses in the teaching unit (UE) Données Massives M2

November 2020 - March 2021: Supervision of the research internship of a Master 2 student in Applied Mathematics and Statistics (with main supervisor: Jérémie Bigot), at Université de Bordeaux. *Weekly video meetings as well as the various exchanges by email.*