Yiye Jiang

https://yiyej.github.io   yiyejiang93@gmail.com

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 Universiy, China *M.Sc. in Probability and Mathematical Statistics* **July 2015:** Xiamen Universiy, China *B.Ec. in Financial Mathematics* **July 2015:** Xiamen Universiy, 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 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.*