

Louise Alamichel

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Education

- 2021–present **Ph.D. in Applied Mathematics**, Inria Grenoble Rhône-Alpes & Université Grenoble Alpes, Grenoble.
Supervisors : Julyan Arbel and Guillaume Kon Kam King
Bayesian nonparametric methods for complex genomic data.
- 2020 – 2021 **Master's degree in Mathematics, Statistics and Machine Learning**, Université Paris-Saclay, Orsay.
- 2019 – 2020 **Master 1 Applied Mathematics**, Université Paris-Saclay, Orsay.
- 2016 – 2019 **Bachelor's Degree in Computer Science and Mathematics**, Université Paris-Sud 11, Orsay.

Experience

- April – July 2021 **Internship**, Inria Grenoble Rhône-Alpes.
Asymptotic properties of Bayesian nonparametric mixture models.
Under Julyan Arbel and Guillaume Kon Kam King supervision
- May – July 2020 **Research project, IMO**, Université Paris-Saclay.
Comparison of LBM and SBM clustering models for a directed graph.
Under Christine Keribin supervision

Publication

- 2023 C. Lawless, L. Alamichel, J. Arbel and G. Kon Kam King, *Clustering inconsistency for Pitman–Yor mixture models with a prior on the precision but fixed discount parameter*, in Fifth Symposium on Advances in Approximate Bayesian Inference.
- 2022+ L. Alamichel, D. Bystrova, J. Arbel and G. Kon Kam King, *Bayesian mixture models (in)consistency for the number of clusters*, Under revision.

Conferences

- December 16-18 2023 **Bayesian mixture models (in)consistency for the number of clusters**, CMStatistics 2023, Invited talk.
- Oct 30 - Nov 3 2023 **On Bayesian mixture models (in)consistency for the number of clusters**, Bayes at CIRM, *Autumn school*, Poster presentation.
- July 23 2023 **Clustering inconsistency for Pitman–Yor mixture models with a prior on the precision but fixed discount parameter**, Fifth Symposium on AABI, Proceedings and poster.
- June 19-23 2023 **Bayesian mixture models (in)consistency for the number of clusters**, Approximation Methods in Bayesian Analysis, Poster presentation.

- October 24-29 2022 **Bayesian mixture models (in)consistency for the number of clusters**, BNP13, Poster presentation.
- June 26 - July 1 2022 **On the consistency of Bayesian nonparametric mixtures for the number of clusters**, ISBA 2022, Contributed talk.
- June 22-23 2022 **Bayesian nonparametric mixtures inconsistency for the number of clusters**, BAYSM 2022, Poster presentation.
- June 13-17 2022 **On the consistency of Bayesian nonparametric mixtures for the number of clusters**, JdS 2022, Contributed talk.

Skills

Computer R, Python, C++, Julia, Java, Matlab, SQL, Ocaml
Language French (native), English (B2)