# Guillaume Braun

*PhD Candidate*

## Education

2020-2022 **Applied Mathematics and Computer Science Thesis**, *PhD, Inria Lille - Nord Europe-MODAL team, France*
*Topic : « Efficient iterative methods for clustering and matching problems on graphs »*
*Supervisors : Christophe Biernacki, Hemant Tyagi.*

2015-2017 **Civil servant student at Ensai**, *National School for Statistics and Information Analysis*, Rennes, France.

2014–2015 **Master's Degree in Functional Analysis**, *Université de Franche-Comté*, Besançon, France, *first class honors*.

2012 **« Agrégation de mathématiques »**, *French competitive exam to qualify High School teachers in Mathematics*.

2010–2011 **Master's Degree in Math Education**, *Université de Strasbourg, France*.

## Professional Experience

Since 2015 **Insee statistician Attaché (civil servant statistician)**.

2011–2015 **High-school Teacher**.

## Publications and preprints

2022 **Minimax Optimal Clustering of Bipartite Graphs with a Generalized Power Method**, *G. Braun, H. Tyagi*, Preprint.

2022 **Seeded graph matching for the correlated Wigner model via the projected power method**, *E. Araya, G. Braun, H. Tyagi*, Preprint.

2021 **An iterative clustering algorithm for the Contextual Stochastic Block Model with optimality guarantees**, *G. Braun, H. Tyagi, C. Biernacki*, ICML 2022.

2020 **Clustering on multilayer graphs with missing values**, *G. Braun, H. Tyagi, C. Biernacki*, AISTATS 2021.

## Talks

2021 **An iterative clustering algorithm for the Contextual Stochastic Block Model with optimality guarantees**, MODAL seminar (online).

2021 **Clustering graphs with side information**, SPSR Workshop - Bucharest (online).

2020 **Clustering on multilayer graphs with missing values**, MODAL seminar (online).

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## Skills

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|---|---|
| Computer Science | Programming skills in **R**, **Python**, **SQL** |
| Languages | French (native), English (fluent, TOEIC 925), Japanese (fluent, JLPT N1) |