

# Tomas Rigaux

## Education

- 2023–pursuing **PhD in Computer Science**, *Kashima Lab*, Kyoto University.
- 2016–2021 **MSc in Computer Science**, *Diplome de l'ENS (DENS)*, École normale supérieure de Paris (ENS).
- 2020 **MSc in Mathematics**, *Mathematiques Vision et Apprentissage (MVA)*, École normale supérieure de Paris (ENS).
- 2018 **Computer science Master I**, *École normale supérieure*, Paris (ENS).
- 2017 **Computer science Bachelor**, *École normale supérieure*, Paris (ENS).
- 2016 **Admitted to the École normale supérieure, Paris (ENS)**, ranked 4th.
- 2014–2016 **Classes prépa MPSI-MP\***, *Champollion*, Grenoble.

## Skills

- Programming C, C++, Python, OCaml, Rust
- Python Jax, Tensorflow, PyTorch, sklearn
- Web HTML/CSS, Javascript

## Experience

- 2022–2023 Extended position at Inria **Saclay, France**, with Jill-Jenn Vie on various research projects.
- 2022 Fixed term position at Inria **Saclay, France**, with Jill-Jenn Vie and in collaboration with Pôle-Emploi (1 year).  
Predicting future employment opportunities using time series tabular data of French hirings from Pôle-Emploi
- 2021 Internship at Inria **Paris, France**, supervised by Francis Bach (2 months).  
Work on the results of *Finding Global Minima via Kernel Approximations*.
- 2018 Internship at Riken AIP **Tokyo, Japan**, supervised by Takanori Maehara (5 months).  
Masakazu Ishihata, Takanori Maehara, and Tomas Rigaux. Algorithmic meta-theorems for monotone submodular maximization, 2018, arXiv:1807.04575.
- 2017 Internship at Université de **Liège, Belgium** supervised by Pierre Geurts (2 months).  
Exploring hybrid methods combining neural networks and random forests for supervised learning.

## Teaching

- 2021 **Algorithmic lab sessions**, *Python in L3 at CentraleSupélec (30 students, 21h)*, Gif-sur-Yvette.
- 2017–present **Coach** for ENS teams at the contest International Collegiate Programming Contest
- 2022 **Coached** the 6th team in the 2022 World Finals International Collegiate Programming Contest
- 2014–2023 **Assistant coach** for preparation and selection of the french team at the contest International Olympiad in Informatics

## Competitions and Awards

- 2018 Ranked 56th with Honors at the 2018 ACM ICPC World Finals in Beijing — China.
- 2017 Ranked first at the 2017 ACM ICPC Regionals (SWERC) in Paris — France
- 2017 Ranked 34th with Honors at the 2017 ACM ICPC World Finals in Rapid City — South Dakota, USA.
- 2016 Ranked first at the 2016 ACM ICPC Regionals (SWERC) in Porto — Portugal
- 2016 Ranked 2nd at Prologin, the French National Computer Science Contest.
- 2014 Member of the French team at the IOI in Taipei — Taiwan.

## Publications

- [1] Masakazu Ishihata, Takanori Maehara, and Tomas Rigaux. Algorithmic meta-theorems for monotone submodular maximization, 2018, arXiv:1807.04575.
- [2] Tomas Rigaux, Jill-Jênn Vie, and Sein Minn. Privacy-preserving synthetic educational data generation. Proceedings of EC-TEL 2022, in press, 2022.
- [3] Jill-Jênn Vie, Tomas Rigaux, and Hisashi Kashima. Variational factorization machines for preference elicitation in large-scale recommender systems. In *Proceedings of IEEE BigData 2022*, in press, 2022.
- [4] Tomas Rigaux and Hisashi Kashima. Enhancing chess reinforcement learning with graph representation, 2024, arXiv:2410.23753.

## Language

French	Native language	
English	Fluent	<i>IGCSE diploma. International option for the Baccalauréat</i>
Japanese	Learning	<i>Studied as a second language for 2 years</i>
Italian	Intermediate	<i>Studied as a second language for 9 years</i>