Kevin Tran

PhD Student in Computer Science

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- 2023 2026 **PhD Student in Computer Science**, Sorbonne Université, LIP6, Supervised by Jérémy Berthomieu and Romain Lebreton Subject: Structured linear algebra for recurrences and Gröbner bases.
- 2022 2023 Master Parisien de Recherche en Informatique, Université Paris Cité Courses : Computer Algebra, Cryptography, Combinatorics.
- 2021 2022 Master Mathématiques de l'information, cryptographie, Université Rennes 1
 Courses : Computer Algebra, Coding Theory, Cryptography.
- 2020 2021 Magistère de Mathématiques, Université Paris-Saclay
- 2019 2020 Double Licence Mathématiques Informatique, Université Paris-Saclay
- 2018 2019 Licence Portail MPI, Université Paris-sud

Work Experience

- March 2023 Graduation internship, LIP6, Supervised by Vincent Neiger and Mohab Safey
- August 2023 El Din, 6 months

Algorithmics on structured matrices for the xgcd computation.

- May 2022 M1 Internship, LIP6, Supervised by Vincent Neiger and Mohab Safey El Din,
 - July 2022 2 months

Implementation of the subroutines Basis, M-Basis and PM-Basis for the computation of Block Wiedemann.

- June 2021 ${f L3}$ Internship, Sorbonne université, Supervised by Sabine and Guillaume
- July 2021 Rousseau, 1 month

Definition of SIR models and implementation of optimisation and machine learning methods on Python. Comparison of the model with virological data.

2019 – 2020 **Tutor**, *Université Paris-Saclay*, Service informatique et formation, 1 an Train first-time students in the IT tools offered by the university. Help in mathematics, computing or physics

Various Experience

- February **Projet Tutoré** (M1), Supervised by Delphine Boucher, 4 months
- 2022 May Study of the HFE encryption system proposed by J.Patarin and attack with Gröbner 2022 bases proposed by J-C.Faugère. Implementation of an HFE model, F4 and FGLM algorithms on SageMath
 - February Supervised research work (L3), Supervised by Michel Rumin, 4 months
- 2021 May Find the relationship between the number of peaks, lakes and passes on an island 2021 (link with Euler's characteristic). This work was based on tools of differential calculus
 - 2021 (link with Euler's characteristic). This work was based on tools of differential calculus, topology and holomorphic function

Computer skills

Languages $\mbox{ C/C++}$ (Flint, NTL, PML), Python (NumPy, Matplotlib, Scikit-Learn), Java, SageMath

Other LaTeX, GitHub/GitLab, Emacs

Languages

French Mother tongue

English B2 Level

Italian Notions

Leisure

Sports Running, Swimming

 ${\bf Culture\ \ Chess,\,Music,\,Literature.}$