

Ernest van Wijland

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Born March 25th, 2001 • French & Dutch citizenships

Education

- **PhD Computer Science** **IRIF, Université Paris-Cité**
Paris, France *2024 – Present*
 - First year PhD student under Claire Mathieu and Vincent Cohen-Addad's supervision.
- **MSc Computer Science, BSc Mathematics** **École Normale Supérieure**
Paris, France *2020 – 2024*
 - Graduated both the MSc (MPRI) and the BSc (double major in Mathematics and Computer Science) with highest honors.
- **Preparatory Class** **Lycée Louis-le-Grand**
Paris, France *2018 – 2020*

Publications

- **An Improved Greedy Approximation for (Metric) k -Means** **Preprint**
Charikar, Cohen-Addad, Gao, Grandoni, Lee, Van Wijland *2025*
- **Faster Approximation Scheme for Euclidean k -TSP** **SoCG**
Ernest van Wijland, Hang Zhou *2024*
- **Maximizing Nash Social Welfare in 2-Value Instances: Delineating Tractability** **MOR**
Akrami et al. *2023*
- **Maximizing Nash Social Welfare in 2-Value Instances** **AAAI**
Akrami et al. *2022*

Research experience

- **Approximation Algorithms for Clustering** **IRIF (Université Paris-Cité)**
Paris, France *2024 – Present*

Currently working under Claire Mathieu and Vincent Cohen-Addad's supervision at IRIF on finding approximation algorithms for clustering problems.
- **Approximating TSP generalizations** **IRIF (Université Paris-Cité)**
Paris, France *2023 – 2024*

Worked for a year under Claire Mathieu and Hang Zhou's supervision at IRIF on finding fast approximation schemes for generalizations of the TSP, in Euclidean spaces and general metric spaces.
- **Euclidean CVRP, k -TSP** **LIX (Polytechnique)**
Palaiseau, France *2023*

Worked for a semester under Hang Zhou's supervision in Polytechnique on finding faster approximation schemes for the Euclidean CVRP and k -TSP.
- **Approximating 2-WECS** **THL (EPFL)**
Lausanne, Switzerland *2022*

Worked for a semester under Ola Svensson's supervision in the Combinatorial Optimization team at EPFL on finding a better than 2 approximation for 2-WECS.
- **Fair Division for additive instances** **AGT (Max Planck Institut)**
Sarrebruck, Germany *2021*

Worked for two months under Kurt Mehlhorn's supervision in the Algorithmic Game Theory team of the MPII on the Fair Division problem for additive instances.

Spectrum of heavy-tailed random matrices

DMA (École Normale Supérieure)

○ *Paris, France*

2021

Worked under Laure Dumaz' supervision on a paper by Ben Arous and Guionnet.

Academic achievements

MasterDev Best French Developer Contest 5th place finisher

○ *Paris, France*

2023

- French national contest in Computer Science, with thousands of participants from every major IT company

- awarded the 5000€ Genius prize as a high scoring student

International Olympiad in Informatics Bronze medalist

○ *Tsukuba, Japan*

2018

Dutch National Olympiad in Informatics winner

○ *Utrecht, Netherlands*

2018

Innopolis University Olympiad in Informatics finalist

○ *Innopolis, Russia*

2018

International Olympiad in Informatics participant

○ *Tehran, Iran*

2017

As part of the top 4 High-School students in the Dutch National Olympiad in Informatics.

Outreach

Member of the France-IOI association

○ *France*

2018 – Present

I am involved in organizing the Castor and Algoréa contests, in which more than 600 000 students from elementary school to high-school participate every year. I am also involved in selecting and training the best students that participate in the Informatics Olympiad.

Member of the Netherlands-IO association

○ *Netherlands*

2018 – Present

I am involved with the computer science outreach campaign towards Dutch high-school girls and preparing the Dutch girls team for the European Girls Olympiad in Informatics.

Lecturer at the Moroccan Olympiad in Informatics training camp

○ *Morocco*

2019

Gave algorithms lectures to Moroccan middle-school and high-school students.

Other interests

○ Active Judo black belt and Tennis player.

○ Practicing piano for the past 15 years, part of the chamber music club in the ENS. Founder of the Early Music section.

○ Graduated from the Juvisy Music Conservatory in Music Theory, Piano and Ensemble Playing (2018).

○ Minoring in Musicology at ENS.