

EXPERIENCE

• ESIEE Paris

Paris, France

PhD candidate

2018 –

- **Research topic:** Approximation Algorithms for Large-Scale Geometric Data
- **3 peer-reviewed publications (CORE A conference and Q1 journals):** [Google scholar](#)

Teaching

- **Algorithm Design - responsible:** Lectures, problem solving and coding (C++) sessions for 4th year Computer Science students.
- **Optimisation Algorithms - lecturer:** Lectures on Linear and Integer Programming. (C++, OR-tools).

Mentoring (*internships co-supervised with Nabil Mustafa*)

- **Baptiste Adam** (M1 student) (March - August 2021)
Topic: Visualization and benchmarking of a spatial partitioning algorithm
- **Clément Chomicki** (M1 student) (May - August 2020)
Topic: C++ implementation of an algorithm for half-space range sampling in 2 dimensions

• Karlsruhe Institute of Technology

Karlsruhe, Germany

Research and teaching assistant (*pre-doc*)

2016 – 2018

- **Graph Theory:** Problem solving sessions for advanced Mathematics and Computer Science students.
- **Advanced Mathematics:** Problem solving sessions for 1st year Engineering students.

EDUCATION

• Université Paris-Est

Paris, France

Master (M2) in Computer Science; *mention très bien*

2015 – 2016

- **Specialization:** Theoretical Computer Science – Algorithms and Bioinformatics
- **Funding:** Labex Bézout Excellence Track

• Eötvös Loránd University

Budapest, Hungary

Bachelor and M1 in Applied Mathematics; *with distinction*

2011 – 2015

- **Specialization:** Combinatorial Optimisation and Graph Theory

PUBLICATIONS

M. Csikós and N. Mustafa (2021). *Escaping the Curse of Spatial Partitioning: Matchings With Low Crossing Numbers and Their Applications*. Accepted to SoCG 2021 (peer-reviewed conference), invited to special issue

M. Csikós, A. Kupavskii, and N. Mustafa (2019). *Tight Lower Bounds on the VC-dimension of Geometric Set Systems*. Published in Journal of Machine Learning Research

M. Axenovich and **M. Csikós** (2019). *Induced Saturation of Graphs*. Published in Discrete Mathematics

M. Csikós and N. Mustafa (2021+). *Optimal Approximations Made Easy*. Under revision in Information Processing Letters

Á. Ambrus, **M. Csikós**, G. Kiss, J. Pach, G. Somlai (2021+). *On minimum and maximum perimeter isosceles containers*. Under preparation.

MISCELLANEOUS

Language proficiency: Hungarian - native / English - fluent / French & German - intermediate