



Internships in Randomization in Computational Geometry and Topology

There is **1 opening** for paid internships for Masters students of Polish universities, starting in March 2021, for a period of 6 months. The positions are under the NCN SONATA grant “Probabilistic tools for high-dimensional geometric inference, topological data analysis and large-scale networks”, which aims to develop structural understanding and efficient algorithms for geometric and topological analysis of high-volume and high-dimensional data, using probabilistic ideas. The principal investigator is dr. Kunal Dutta (homepage: <https://www.mimuw.edu.pl/~kdutta>).

We are looking for students who

- Are pursuing Masters in Computer Science, Mathematics or related areas.
- Have a background in **at least one** of the following streams:
 - discrete mathematics, probabilistic combinatorics and algorithms, OR
 - discrete and computational geometry, OR
 - geometric probability, topology, and real analysis.
- Is interested in problems involving several areas, such as algorithms (especially randomized / geometric algorithms), probabilistic combinatorics, computational geometry and topology.
- Is proficient in English.

We offer

- Exciting and challenging research problems.
- Collaboration with researchers within and outside MIM UW.
- Travel funding for conferences and research-related visits.
- Salary: 1500 PLN per month.

Contact: K.dutta@mimuw.edu.pl.

To apply for the position, please send a CV and a brief description of your research interests.

Application deadline: This is a rolling advertisement. Applications will be accepted until the position is filled.