PhD Position in Randomization in Computational Geometry and Topology

There is an opening for a fully funded Ph.D. position starting in October 2020, under the NCN SONATA grant “Probabilistic tools for high-dimensional geometric inference, topological data analysis and large-scale networks”, which aims to develop efficient algorithms for geometric and topological analysis of high-volume and high-dimensional data, using probabilistic ideas. The principal investigator is dr. Kunal Dutta [https://www.mimuw.edu.pl/~kdutta/]. The candidate will be required to enroll in the Doctoral School of the Faculty of Mathematics, Informatics and Mechanics, University of Warsaw [https://www.mimuw.edu.pl/wdsmcs].

We are looking for a student who

• Has a Masters in Computer Science, Mathematics or related areas.

• Is strongly motivated to pursue research problems involving several areas, such as algorithms (randomized / geometric), probabilistic combinatorics, computational geometry and topology.

• Has a strong background in discrete mathematics, probabilistic combinatorics and algorithms. Some familiarity with computational geometry, real analysis and topology would be helpful, but are not essential.

• Is proficient in English.

We offer

• Exciting and challenging research problems.

• Collaboration with researchers within and outside MIM UW.

• Decent travel funding for conferences and research visits.

• Salary: 3000+ PLN per month (brutto).

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

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