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 (algorithms, combinatorics, probability theory, geometry, or topology).
- Has a decent background in discrete mathematics, basic probability theory and algorithms. Some familiarity with 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.
- Attractive salary: 3000 PLN per month gross. (This is in addition to the scholarship from the UW Doctoral School, thus above 5000 PLN per month in total).

Contact: [K.dutta@mimuw.edu.pl].
To apply for the position, please send a CV and a brief description of your research interests.

Expected date of decision: September 25, 2020.