

PHD POSITION IN GEOMETRIC ANALYSIS

The Department of Mathematics and Data Science of the Vrije Universiteit Brussel (Belgium) invites applications for two PhD positions in Mathematics.

The PhD projects will be supervised by David Tewodrose. They fall in the framework of the Odysseus programme “Geometric and analytic properties of metric measure spaces with spectral curvature constraints, with applications to manifold learning” funded by the Fonds voor Wetenschappelijk Onderzoek – Vlaanderen (Research Foundation – Flanders). The research conducted will lie at the intersection of several research areas in modern geometric analysis, including analysis on metric spaces, computational Riemannian geometry, geometric measure theory and probability theory. The successful candidates will contribute to the vibrant research environment of the department and help creating new ties with the Department of Mathematics of the nearby Université Libre de Bruxelles.

Candidates should hold an MSc in Mathematics and have a strong background in at least one of the following topics: Partial Differential Equations, Riemannian Geometry, Measure Theory, Functional Analysis, Diffusion Processes. A good command of English is required, and a certain degree of fluency in Dutch after a period of adaptation is expected.

The earliest possible starting date is November 1st, 2023. The duration is 4 years. The default net salary is set at 2420 euros/month, with the precise amount calculated according to familial situation. The position comes with a light teaching load in the form of assistantship for one course per semester. It also includes funding for traveling to international conferences and visiting collaborators worldwide.

Applications should be sent directly by email at phd.vub.fwo.2023@gmail.com no later than June 23th 2023 at 16:00. They must include a letter of motivation, a curriculum vitae, and a copy of MSc degree¹ and transcript. The letter of motivation should explain why the candidate wants to do a PhD in Mathematics, why in geometric analysis specifically, and why in Belgium. The degree and transcript should not be translated at this stage; however, if the degree is neither in English, nor French, nor German, nor Dutch, an official translation of this document must be available at the starting date. Candidates should also be recommended by two professors via letters to be sent at the aforementioned email address and within the same deadline. Any inquiries about the position may be addressed to the same email address.

Online interviews for the selected candidates will take place on July 10th and 11th. The final decision will be announced on July 13st.

¹or any official document justifying that such a degree is to be obtained soon