

Doctoral Candidate in Computational Geometry Aalto University

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Downloaded On: Jun. 30, 2024 10:19am

Posted Jun. 28, 2024, set to expire Dec. 30, 2024

Job Title Doctoral Candidate in Computational Geometry
Department T313 Dept. Computer Science
Institution Aalto University
, , Finland

Date Posted Jun. 28, 2024

Application Deadline Open until filled
Position Start Date Available immediately

Job Categories Graduate Student

Academic Field(s) Mathematics/Applied Mathematics

Job Website https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Doctoral-Candidate-in-Computational-Geometry_R40179

Apply By Email

Job Description

Aalto University is a community of bold thinkers where science and art meet technology and business. We are committed to identifying and solving grand societal challenges and building an innovative future. Aalto has six schools with nearly 12 000 students and a staff of more than 4000, of which 400 are professors. Our main campus is located in Espoo, Finland. Diversity is part of who we are, and we actively work to ensure our community's diversity and inclusiveness. This is why we warmly encourage qualified candidates from all backgrounds to join our community.

The Department of Computer Science is an internationally-oriented community and home to world-class research in modern computer science, combining research on foundations and innovative applications. With over 40 professors and more than 450 employees from 50 countries, it is the largest department at Aalto University and the largest computer science unit in Finland. Computer science research at Aalto University ranks high in several prominent surveys (47th worldwide and 9th in Europe

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in Shanghai subject ranking 2019; and 56th worldwide in Times Higher Education subject ranking 2020).

We are looking for a Doctoral Candidate to join our computational geometry team on the grant entitled “Algorithms in hyperbolic geometry”; funded by the Research Council of Finland. Computational geometry is the theoretical basis for all types of geometric processing of data, and it is an important and vibrant area of Theoretical Computer Science. The research of the doctoral candidate will be about data structures, algorithms, and computational complexity in Euclidean and especially non-Euclidean (e.g. hyperbolic) settings.

The team

The daily supervision will be carried out by Assistant Professor Sándor Kisfaludi-Bak. The computational geometry team will have one other PhD student and one or two postdoctoral researchers. There is also a strong presence of Theoretical Computer Science at Aalto, with several professors and their groups working on nearby fields of algorithms.

Your role and goals

Your primary role as a doctoral candidate in the computational geometry team is to train and work as a researcher, together with the local team or other collaborators. You will do theoretical research as well as write and publish high-quality research articles for top conferences and journals of the field. You will have a chance to grow your international and professional network by travelling to and presenting at conferences and workshops. By the end of your studies, you will be an independent researcher, and write a doctoral dissertation summarizing your scientific contributions.

In addition to research work, PhD candidates are expected to participate in teaching in accordance with the institution’s standard practices.

Your experience and ambitions

We welcome outstanding and motivated applicants with a master’s degree in computer science, mathematics, or other closely related area. We hope that applicants have a strong background in algorithms and discrete mathematics, and a deep interest in geometry. Experience with hyperbolic geometry is not required.

What we offer

We offer a two-year fixed-term contract with the possibility for a two-year extension, during which you will be working towards your Doctoral dissertation. The employment is a full-time paid position with occupational health care. The starting monthly salary in the position is 2747,07 euros. There is also generous financial support available for international research visits and conference attendance.

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Ready to apply?

Please submit your application via our electronic recruitment system. The application form will close on 11 August 2024 at 23:59 Finnish time (UTC +3).

If you are currently working at Aalto University, please submit your application via HR System Workday (Career - Find jobs - Apply).

Please be prepared to add the following attachments: * Cover letter, including the name and email address of two academic referees * CV * Transcript of your Master's studies

More information, contact:

If you have any questions about the research group, the research topic, or the position, please contact Assistant Professor Sándor Kisfaludi-Bak.

email: [\[url=mailto:firstname.lastname@aalto.fi\]](mailto:firstname.lastname@aalto.fi)firstname.lastname@aalto.fi

HR contact Susanna Holma (27.6.-5.7. and 5.8.->)

[\[url=mailto:firstname.lastname@aalto.fi\]](mailto:firstname.lastname@aalto.fi)firstname.lastname@aalto.fi

Want to know more about us and your future colleagues? You can watch these videos:

[\[url=https://www.youtube.com/watch?v=5k_og_6zUJQ\]](https://www.youtube.com/watch?v=5k_og_6zUJQ)Aalto University - Towards a better world,

[\[url=https://www.youtube.com/watch?v=dUfEGVM-ZP8&feature=youtu.be\]](https://www.youtube.com/watch?v=dUfEGVM-ZP8&feature=youtu.be)Aalto People , and

[\[url=https://www.youtube.com/watch?v=ZK6pDWm1_CE\]](https://www.youtube.com/watch?v=ZK6pDWm1_CE)Shaping a Sustainable Future.

And this webpage about Aalto and Finland. [\[url=https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package\]](https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package)<https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package>

Check out our new virtual campus experience: [\[url=https://virtualltour.aalto.fi/\]](https://virtualltour.aalto.fi/)<https://virtualltour.aalto.fi/> !

About Finland

Finland is a great place for living with or without family - it is a safe, politically stable and well-organized Nordic society. Finland is consistently ranked high in quality of life and was just listed again as the

happiest country in the world: [\[url=https://worldhappiness.report/news/its-a-three-peat-finland-keeps-top-spot-as-happiest-country-in-world/\]](https://worldhappiness.report/news/its-a-three-peat-finland-keeps-top-spot-as-happiest-country-in-world/)<https://worldhappiness.report/news/its-a-three-peat-finland-keeps-top-spot-as-happiest-country-in-world/>.

For more information about living in Finland:

[\[url=https://www.aalto.fi/services/about-finland\]](https://www.aalto.fi/services/about-finland)<https://www.aalto.fi/services/about-finland>

More about Aalto University:

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Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

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