

Doctoral researcher in statistical signal processing Aalto University

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Posted Jan. 3, 2023, set to expire Dec. 30, 2023

Job Title	Doctoral researcher in statistical signal processing
Department	T412 Department of Information and Communications Engineering
Institution	Aalto University , , Finland
Date Posted	Jan. 3, 2023
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Graduate Student
Academic Field(s)	Electrical and/or Electronics
Job Website	https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Doctoral-researcher-in-statistical-signal-processing_R35194

Apply By Email

Job Description

Doctoral researcher in statistical signal processing

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 11 000 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 in the future as well. This is why we warmly encourage qualified candidates from all backgrounds to join our community.

The Department of Information and Communications Engineering is now inviting applications for a

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Doctoral researcher in statistical signal processing

The Structured and Stochastic Modeling Group, headed by Prof. Filip Elvander, conducts research in statistical signal processing, ranging from investigating fundamental properties of the mathematical descriptions of signals, to applied research in radar, audio signal processing, and biomedical modeling. We are now looking for an outstanding doctoral researcher to join the group. The research will be focused on modeling and estimation problems related to spatio-temporal signals, i.e., signals supported in both space and time. Such signals are ubiquitous in multi-sensor systems, with applications ranging from passive radar to speech enhancement for hearing aids and electroencephalography.

Your role and goals

As a doctoral researcher in this project, you will contribute to laying the foundations for modeling spatio-temporal data. In particular, your work will produce tools for efficiently exploiting all available information contained in multi-sensor measurements while incorporating prior and structural knowledge in a flexible way. This will allow for constructing estimation and interpolation algorithms for, e.g., localization, tracking, and denoising. In addressing the challenges posed by this data, a cornerstone will be the use of theory and methods from optimal mass transport and convex modeling. The goal of the project is to make foundational theoretical contributions and to develop tools relevant for industry applications. The project offers significant creative freedom and you are encouraged to develop your own scientific ideas within its framework.

This position includes doctoral studies. The successful applicant must register for the PhD program at Aalto University School of Electrical Engineering. The nominal duration of the doctoral studies in Finland is 4 years.

Your experience and profile

- MSc in Electrical Engineering, Engineering Physics, Applied Mathematics, or related field.
- A good command of English, both written and spoken.
- Good programming skills in languages such as Matlab and Python.
- A curious mindset.
- An interest in multi-disciplinary research
- Eligible for PhD study at Aalto University

What we offer

The Department of Information and Communications Engineering conducts world-class research in the areas statistical signal processing, audio signal processing, and acoustics. We offer a diverse and multi-cultural workplace with strong international ties. As a doctoral researcher you will benefit not only from the onsite expertise but also have the opportunity to collaborate with researchers at KTH Royal

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Institute of Technology, Lund University, and KU Leuven, as well as with industry partners.

The position will be filled in for four years (2 + 2). The starting date is May 1, 2023, or as mutually agreed. The salary is determined according to the salary system of Finnish universities. The expected starting salary is approximately 2600€/month and will increase according to the performance over time. As an employer, Aalto University provides excellent learning and development opportunities as well as occupational health care services, commuter ticket benefit and versatile exercise services by Unisport. The contract includes occupational health benefits and Finland has a comprehensive social security system.

Ready to apply?

To apply for the position, please submit your application including the attachments mentioned below as one single PDF document in English through our online recruitment system by using the link ("Apply Now”) on Aalto University’s web page. Your application should contain

- Letter of motivation including a brief description of your research interests.
- CV including list of publications
- Degree certificates and academic transcripts
- Contact details of at least two referees (or letters of recommendation, if already available)

The deadline for applications is February 17, 2023. The position will be filled as soon as a suitable candidate is identified. For additional information, kindly contact Prof. Filip Elvander at at [\[url=mailto:filip.elvander@aalto.fi\]](mailto:filip.elvander@aalto.fi)filip.elvander@aalto.fi. Aalto University reserves the right for justified reasons to leave the position open, to extend the application period, reopen the application process, and to consider candidates who have not submitted applications during the application period.

Please note: Aalto University’s employees and visitors should apply for the position via our internal system Workday -> find jobs (not external aalto.fi webpage on open positions) by using their existing Workday user account.

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

Finland