DAVID STENLUND
Curriculum vitae

Personal details

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Degrees

Doctor of Philosophy (Ph. D.) in mathematics   28 Oct. 2020
Åbo Akademi University, Turku, Finland
Supervisor: Paavo Salminen

Master of Science (M. Sc.) in applied mathematics   17 June 2014
Åbo Akademi University, Turku, Finland

Bachelor of Science (B. Sc.) in mathematics   19 June 2012
Åbo Akademi University, Turku, Finland

Current occupation

Independent researcher in mathematics   Aug. 2024 –
Supported by a research grant from the Ruth and Nils-Erik Stenbäck Foundation.

Previous employment

Postdoctoral research and teaching fellow   Sept. 2021 – June 2024
University of British Columbia, Vancouver, Canada

Postdoctoral researcher   Nov. 2020 – July 2021
Åbo Akademi University, Turku, Finland

University lecturer   Jan.–July 2020
Åbo Akademi University, Turku, Finland
Responsible for teaching two undergraduate courses on probability theory.

Doctoral student   Oct. 2014 – Dec. 2019,
Åbo Akademi University, Turku, Finland   Aug.–Oct. 2020
Partial parental leave (50 %) during Oct.–Dec. 2016.

Research funding and grants

Personal grant for postdoctoral research, extension Sept. 2022 – Aug. 2023
The Swedish Cultural Foundation in Finland, 43 000 €
The Magnus Ehrnrooth Foundation, 29 000 €

Personal grant for postdoctoral research Sept. 2021 – Aug. 2022
The Swedish Cultural Foundation in Finland, 40 000 €
The Magnus Ehrnrooth Foundation, 29 000 €

Personal grants (2) for doctoral studies and postdoctoral research Aug. 2020 – July 2021
The Magnus Ehrnrooth Foundation, total 26 000 €

Personal grant for doctoral studies Feb.–Dec. 2019
The Magnus Ehrnrooth Foundation, 23 000 €

Publications

Preprints

- P. Salminen and D. Stenlund (submitted 2024). Occupation times on the legs of a diffusion spider. arXiv:2411.09976.

Refereed journal articles

- S. Stenlund, L. Mâsse, D. Stenlund, L. Sillanmäki, K. C. Appelt, H. Koivumaa-Honkanen, P. Rautava, S. Suominen, & D. M. Patrick (2023). Do patients' psychosocial characteristics impact antibiotic prescription rates? *Antibiotics* **12**(6), 1022.

- D. Stenlund (2022). On the connection between Stirling numbers and Bessel numbers. *Electronic Journal of Combinatorics* **29**(1), P1.40.

- S. Stenlund, N. Junttila, H. Koivumaa-Honkanen, L. Sillanmäki, D. Stenlund, S. Suominen, H. Lagström, & P. Rautava (2021). Longitudinal stability and interrelations between health behavior and subjective well-being in a follow-up of nine years. *PLoS ONE* **16**(10), e0259280.

- P. Salminen and D. Stenlund (2021). On occupation times of one-dimensional diffusions. *Journal of Theoretical Probability* **34**, 975–1011.

- D. Stenlund and J. G. Wan (2019). Some double sums involving ratios of binomial coefficients arising from urn models. *Journal of Integer Sequences* **22**, Article 19.1.8, 1–17.

- D. Stenlund (2018). On the Mabinogion urn model. *Advances in Applied Probability* **50**, 327–346.

Doctoral thesis

- D. Stenlund (2020). *Hitting times in urn models and occupation times in one-dimensional diffusion models*. Åbo Akademi University.

Teaching merits

Course instructor, University of British Columbia

Applied Linear Algebra	Fall 2023
Applied Linear Algebra	Spring 2023
Applied Linear Algebra	Fall 2022
Probability II	Spring 2022
Introduction to Probability	Spring 2022
Applied Linear Algebra	Fall 2021

Course instructor, Åbo Akademi University

Probability Theory, Part 1	Spring 2020
Probability Theory, Part 2	Spring 2020

Teaching assistant, Åbo Akademi University

Financial Mathematics	Spring 2019
Probability Theory, Part 2	Spring 2018
Probability Theory, Part 1	Spring 2018
Poisson and Related Processes	Spring 2017
Markov Chains	Spring 2017
Probability Theory, Part 2	Spring 2016
Probability Theory, Part 1	Spring 2016
Mathematical Analysis	Fall 2014
Matrices, Part 2	Spring 2012
Matrices, Part 1	Spring 2012
Introduction to Semigroups	Fall 2011
Basic Probability Theory	Fall 2011
Basic Probability Theory	Fall 2010

Other teaching

Cryptography workshop for school groups, Åbo Akademi University	2018–2019

Selected talks

"Moments of occupation times on spider diffusion rays" UBC Probability Seminar, Vancouver, Canada	Oct. 2021
"Moments of occupation times for one-dimensional diffusions" Stochastic Processes and their Applications (SPA), Evanston, IL, USA	July 2019
"Time to absorption in the Mabinogion urn model" Stochastic Processes and their Applications (SPA), Göteborg, Sweden	June 2018
"Time to absorption in the Mabinogion urn model" European Meeting of Statisticians (EMS), Helsinki, Finland	July 2017

Awards and honours

Nominated for the annual Postdoctoral Teaching Prize at UBC Mathematics	Nov. 2023, Oct. 2022, Oct. 2021
Ruth and Nils-Erik Stenbäck Foundation research grant award, 30 000 € (twice)	March 2023, April 2021
Winner of the 3 Minute Thesis (3MT) competition at Åbo Akademi University	Oct. 2016
Winner of the Nordic Sudoku Championship	Dec. 2005

Service

Reviewer for *Utilitas Mathematica*

Selected projects outside academia

Video editor, virtual choir performance ([Youtube link](#))   June 2020
Planning, managing video submissions, video and sound editing in Final Cut Pro

Organizer of a youth summer camp (4 days, ca 80 participants)   July 2010
Chairing the planning committee, contacting speakers, making practical arrangements

Language skills

Swedish	Native
English	Fluent
Finnish	Fluent
German	Conversational
Spanish	Elementary
Mandarin	Elementary

Date of the CV

Last updated November 29, 2024.