

CV

Johan Larsson

March 27, 2023

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1 Education

- 2018 – now** **PhD in Statistics**, *Department of Statistics, Lund University*
Supervisors: *Jonas Wallin (main), Małgorzata Bogdan (co-supervisor)*
- 2018** **Bachelor's Degree in Statistics**, *Lund University*
Supervisor: *Peter Gustafsson*
Title: *eulerr: Area-proportional euler diagrams with ellipses*

2 Publications

2.1 Published Articles

- [1] **J. Larsson** and J. Wallin, “The Hessian screening rule,” in *Advances in Neural Information Processing Systems 35*, vol. 35, New Orleans, USA: Curran Associates, Inc., Dec. 6, 2022, pp. 15 823–15 835. [Online]. Available: https://papers.nips.cc/paper_files/paper/2022/hash/65a925049647eab0aa06a9faf1cd470b-Abstract-Conference.html.
- [2] T. Moreau, M. Massias, A. Gramfort, P. Ablin, P.-A. Bannier, B. Charlier, M. Dagr  ou, T. D. la Tour, G. Durif, C. F. Dantas, Q. Klopfenstein, **J. Larsson**, E. Lai, T. Lefort, B. Mal  zieux, B. Moufad, B. T. Nguyen, A. Rakotomamonjy, Z. Ramzi, J. Salmon, and S. Vaiter, “Benchopt: Reproducible, efficient and collaborative optimization benchmarks,” in *Advances in Neural Information Processing Systems 35*, vol. 35, New Orleans, USA: Curran Associates, Inc., Dec. 6, 2022, pp. 25 404–25 421. [Online]. Available: https://proceedings.neurips.cc/paper_files/paper/2022/hash/a30769d9b62c9b94b72e21e0ca73f338-Abstract-Conference.html.
- [3] **J. Larsson**, “Look-ahead screening rules for the lasso,” in *22nd European Young Statisticians Meeting – Proceedings*, Andreas Makridis, Fotios S. Milienos, Panagiotis Papastamoulis, Christina Parpoula, and Athanasios Rakitzis, Eds., Athens, Greece: Panteion University of Social and Political Sciences, Sep. 6–10, 2021, pp. 61–65, ISBN: 978-960-7943-23-1. [Online]. Available: https://www.eysm2021.panteion.gr/files/Proceedings_EYSM_2021.pdf.
- [4] **J. Larsson**, M. Bogdan, and J. Wallin, “The strong screening rule for SLOPE,” in *Advances in Neural Information Processing Systems 33*, H. Larochelle, M. Ranzato, R. Hadsell, M. F. Balcan, and H. Lin, Eds., vol. 33, Virtual: Curran Associates, Inc., Dec. 6, 2020–12, pp. 14 592–14 603. [Online]. Available: https://papers.nips.cc/paper_files/paper/2020/hash/a7d8ae4569120b5bec12e7b6e9648b86-Abstract.html.
- [5] **J. Larsson** and P. Gustafsson, “A case study in fitting area-proportional Euler diagrams with ellipses using eulerr,” in *Proceedings of International Workshop on Set Visualization and Reasoning*, vol. 2116, Edinburgh, United Kingdom: CEUR Workshop Proceedings, Jun. 2018, pp. 84–91.

2.2 Theses

- [6] **J. Larsson**, “eulerr: Area-proportional Euler diagrams with ellipses,” Bachelor thesis, Lund University, Lund, Sweden, 2018, 33 pp. [Online]. Available: <http://lup.lub.lu.se/student-papers/record/8934042>.

3 Talks

- 2021, Oct 27 **Designing a Distance-Based Course in Data Visualizations: Lessons Learned**, *Cramér Society Fall Meeting*
- 2021, Sep 21 **The Hessian Screening Rule and Adaptive Lasso Paths**, *Statistics Seminar at the Department of Mathematical Statistics, Chalmers/Gothenburg University*
- 2021, Sep 9 **Look-Ahead Screening Rules for the Lasso**, *European Young Statisticians Meeting (EYSM) 2021*
- 2020, May 8 **The Strong Screening Rule for SLOPE**, *Statistical Learning Seminar*
- 2018, June 18 **A Case Study in Fitting Area-Proportional Euler Diagrams with Ellipses Using eulerr**, *SetVR 2018*

4 Teaching

4.1 Instructor

- 2020–2022 **Data Visualization**, *Department of Statistics, Lund University*
- 2019–2021 **Statistics: Basic Course**, *Department of Statistics, Lund University*

4.2 Teaching Assistant

- 2021 **Introduction to R Programming**, *Department of Statistics, Lund University*
- 2019–2020 **Data Mining and Visualization**, *Department of Statistics, Lund University*
- 2019–2021 **Statistics for Fire Engineers**, *Department of Statistics, Lund University*
- 2019 **Artificial Intelligence and Deep Learning Methods**, *Department of Statistics, Lund University*

4.3 Course Development

- 2020 **Data Visualization**, *Department of Statistics, Lund University*
Distance-based course in data visualization for students on the undergraduate level.

5 Supervision and Mentorship

- 2022 **Main Supervisor, Master’s Thesis**, *Data Analysis and Business Analytics, The Department of Statistics, Lund University*
- 2019 – 2021 **Google Summer of School**
Students: [Qincheng Liu \(2019\)](#) , [Akarsh Goyal \(2020\)](#)

6 Referee Service

- Advanced in Neural Information Processing (NeurIPS), 2021, 2022. ISSN: 1049-5258
- International Conference for Machine Learning (ICML), 2022. ISSN: 2640-3498

7 Comittee Service

2020 – now **Statistical Learning Seminar Series**
<https://statistical-learning-seminars.github.io/>
Member of organizational committee

8 Software

SLOPE Generalized linear models with the sorted L1 norm
<https://CRAN.R-project.org/package=SLOPE>

benchopt Reproducible, efficient and collaborative optimization benchmarks
<https://benchopt.github.io/>

eulerr Area-proportional Euler diagrams with ellipses
<https://CRAN.R-project.org/package=eulerr>

qualpalr Automatic generation of qualitative color palettes using color difference algorithms
<https://CRAN.R-project.org/package=tactile>

9 Scholarships

2018 **Google Summer of Code**, *The R Project for Statistical Computing*
Project: *Fast Sparse Linear Models for Big Data with SAGA*

10 Contracted Work

2021 **WHO Antimicrobial Resistance Dashboard**
Contracted work to develop and deploy a visualization dashboard for WHO's Antimicrobial Resistance team in Europe.