

CV

Johan Larsson

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1 Education

- 2018 – now **PhD in Statistics**, *Department of Statistics, Lund University*
Supervisor: *Jonas Wallin*
- 2018 **Bachelor's Degree in Statistics**, *Lund University*
Supervisor: *Peter Gustafsson*
Title: *eulerr: Area-proportional euler diagrams with ellipses*
- 2015 – 2017 **Master's Degree in Medical Science**, *Lund University*
Supervisor: *Eva-Maj Malmström*
Title: *Gym-based exercise therapy for patients with persistent neck pain: A research protocol for a randomized controlled trial*
- 2011 – 2014 **Bachelor's Degree in Physical Therapy**, *Lund University*
Supervisor: *Amanda Lundvik Gyllensten*
Title: *The professional role and technology use among physical therapists in Tokyo: A qualitative interview study*

2 Research

- 2015 – 2018 **Research Assistant**, *SensoriMotor Integration Lund (SMIL): collaborative effort between Lund University, Skåne University Hospital, Malmö University, and Umeå University*
- 2015 **Research Assistant**, *The Department of Pain Rehabilitation, Skåne University Hospital*
- 2014 **Research Assistant**, *Department of Clinical Sciences, Lund University*

3 Scholarships

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

4 Publications

4.1 Published Articles

- [1] **J. Larsson**, H. Westergren, B. Häggman-Henrikson, A. Ilgunas, A. Wänman, and E.-M. Malmström, “The feasibility of gym-based exercise therapy for patients with persistent neck pain,” *Scandinavian Journal of Pain*, vol. 20, no. 2, pp. 261–272, Apr. 2020, ISSN: 1877-8879. DOI: [10.1515/sjpain-2019-0085](https://doi.org/10.1515/sjpain-2019-0085).
- [2] S. Åkerblom, **J. Larsson**, E.-M. Malmström, E. Persson, and H. Westergren, “Acceptance: A factor to consider in persistent pain after neck trauma,” *Scandinavian Journal of Pain*, vol. 19, no. 4, pp. 733–741, 2019, ISSN: 1877-8879. DOI: [10.1515/sjpain-2019-0021](https://doi.org/10.1515/sjpain-2019-0021).
- [3] **J. Larsson**, “Mapping physical therapy research: The geographical affiliations and methodological quality of 2,959 randomized controlled trials,” *Physiotherapy Theory and Practice*, vol. 34, no. 9, pp. 723–729, Jan. 2018, ISSN: 1532-5040. DOI: [10.1080/09593985.2018.1423657](https://doi.org/10.1080/09593985.2018.1423657).
- [4] H. Westergren, **J. Larsson**, M. Freeman, A. Carlsson, A. Jöud, and E.-M. Malmström, “Sex-based differences in pain distribution in a cohort of patients with persistent post-traumatic neck pain,” en, *Disability and Rehabilitation*, vol. 40, no. 9, pp. 1085–1091, Jan. 2017. DOI: [10.1080/09638288.2017.1280543](https://doi.org/10.1080/09638288.2017.1280543).
- [5] **J. Larsson**, M. Miller, and E. Ekvall Hansson, “Vestibular asymmetry increases double support time variability in a counter-balanced study on elderly fallers,” *Gait & Posture*, vol. 45, pp. 31–34, Mar. 2016, ISSN: 0966-6362. DOI: [10.1016/j.gaitpost.2015.12.023](https://doi.org/10.1016/j.gaitpost.2015.12.023).
- [6] **J. Larsson**, E. Ekvall Hansson, and M. Miller, “Increased double support variability in elderly female fallers with vestibular asymmetry,” eng, *Gait & Posture*, vol. 41, no. 3, pp. 820–824, Mar. 2015, ISSN: 1879-2219. DOI: [10.1016/j.gaitpost.2015.02.019](https://doi.org/10.1016/j.gaitpost.2015.02.019).

4.2 Unpublished Articles

- [7] **J. Larsson**, M. Bogdan, and J. Wallin, “The Strong Screening Rule for SLOPE,” *arXiv:2005.03730 [cs, stat]*, May 2020. arXiv: [2005.03730 \[cs, stat\]](https://arxiv.org/abs/2005.03730).

4.3 Theses

- [8] **J. Larsson**, “Eulerr: Area-proportional euler diagrams with ellipses,” Bachelor Thesis, Lund University, Lund, Sweden, 2018.
- [9] —, “Gym-based exercise therapy for patients with persistent neck pain: A research protocol for a randomized controlled trial,” Master’s Thesis, Lund university, Lund, Sweden, Jan. 2017.
- [10] D. Najafi and **J. Larsson**, “The professional role and technology use among physical therapists in Tokyo: A qualitative interview study,” Bachelor Thesis, Lund University, Lund, Sweden, 2014.

4.4 Conference Papers

- [11] **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.

4.5 Conference Abstracts

- [12] **J. Larsson**, H. Westergren, and E.-M. Malmström, “Pain distribution after neck traumas: An analysis of 745 consecutive patients with persistent neck pain,” in *IASP 2016: The World Congress on Pain*, IASP, Ed., Yokohama, Japan, Sep. 2016.

- [13] H. Westergren, **J. Larsson**, and E.-M. Malmström, “Pain distribution in 745 consecutive patients with persistent pain after whiplash trauma,” in *EFIC 2015: Translating Evidence into Practice*, EFIC, Ed., Vienna, Austria, Sep. 2015.

5 Teaching

5.1 Instructor

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

5.2 Teaching Assistant

- 2019–2020 **Data Mining and Visualization**, *Department of Statistics, Lund University*
2019 **Artificial Intelligence and Deep Learning Methods**, *Department of Statistics, Lund University*

5.3 Course Development

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

6 Supervision and Mentorship

- 2019 – 2020 **Google Summer of School**
Students: *Qincheng Liu (2019)*, *Akarsh Goyal (2020)*
2017 – 2019 **Co-Supervisor, Bachelor’s Thesis**, *The Department of Orofacial Pain and Jaw Function, Malmö University*
2017 – 2018 **Co-Supervisor, Master’s Thesis**, *The Department of Orofacial Pain and Jaw Function, Malmö University*

7 Referee Service

- Gait & Posture (ISSN: 0966-6362)
- Journal of Clinical Interventions in Aging (ISSN: 1178-1998)
- Spine (ISSN: 0362-2436)
- Archives of Physical Medicine and Rehabilitation (ISSN: 0003-9993)

See publons.com/a/1299032 for additional information.

8 Comittee Service

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

9 Talks

- 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*

10 Software

- SLOPE** Generalized Linear Models Penalized with SLOPE
<https://CRAN.R-project.org/package=SLOPE>
- sgdnet** Elastic Net-regularized Generalized Linear Models via the efficient SAGA algorithm
<https://github.com/jolars/sgdnet>
- 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>