

CV

# Johan Larsson

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## 1 Education

### 1.1 Degrees

- 2018**      **Bachelor's degree in statistics**, *Lund University*  
I developed an algorithm for creating area-proportional Euler diagrams using ellipses. This work also resulted in a conference paper and oral presentation at the SetWR conference in Edinburgh.
- 2015 – 2017**    **Master's degree in medical science with a major in physical therapy**, *Lund University*  
In my masters thesis I design and piloted a randomized controlled trial.
- 2011 – 2014**    **Bachelor's degree in Physical Therapy**, *Lund University*  
For my bachelor thesis, me and my co-author traveled to Tokyo to interview physical therapists about their professional role and use of technology.

### 1.2 Courses

- 2018**      **Linux som utvecklingsmiljö**, *7.5 ECTS, Umeå University*  
**Statistical methods with R**, *7.5 ECTS, Karolinska Institute*
- 2017**      **Statistics: Bayesian methods**, *7.5 ECTS, Lund University*  
**Statistics: Probability and inference theory**, *7.5 ECTS, Lund University*  
**Statistics: Special assignment**, *15 ECTS, Lund University*  
**Statistics: Econometrics**, *7.5 ECTS, Lund University*  
**Statistics: Time Series Analysis**, *7.5 ECTS, Lund University*  
**Statistics: Statistical theory**, *7.5 ECTS, Lund University*  
**Statistics: Sampling Techniques**, *7.5 ECTS, Lund University*
- 2016**      **Statistics: Basic Course**, *30 ECTS, Lund University*
- 2014 – 2015**    **Summer research course**, *18 ECTS, Faculty of Medicine, Lund University*

I worked as a research assistant at a specialized clinic for pain rehabilitation and presented a poster at EFIC in 2015 and IASP in 2016.

**2013 – 2014 Summer research scholarship, 15 ECTS, Faculty of Medicine, Lund University**

As a part of a stipend, I undertook a course in basic academic knowledge.

## 2 Work experience

**2018 Google Summer of Code, *The R Project for Statistical Computing***

A project supervised by Toby Dylan Hocking and Michael Weylandt wherein which I am translating the incremental stochastic gradient algorithm SAGA to R and implementing it work for generalized linear models, such as gaussian (univariate and multi-task), logistic (binomial and multinomial), poisson, and Cox regression.

**2017 – now Physical therapist, *The Department of Orofacial Pain and Jaw Function, Malmö University***

Clinical work and quantitative assessment of sensory function.

**2016 – now Teacher Assistant, *The Department of Health Sciences, Lund University***

I teach anatomy, palpation, and examination skills to students at the medical school of Lund University.

**2014 – now Physical Therapist, *Vårdcentralen Södra Sandby, Region Skåne***

Clinical work at a primary care center in southern Skåne.

### 2.1 Research

**2015 – 2018 Research assistant, *SMIL***

SensoriMotor Integration Lund (SMIL) is a collaborative effort between Lund University, Skåne University Hospital, Malmö University, and Umeå University, in which we are assessing the utility of a gym-based treatment for patients with persistent neck pain.

- 2015**      **Research assistant**, *The Department of Pain Rehabilitation, Skåne University Hospital*  
Together with supervisors Eva-Maj Malmström and Hans Westergren I studied patients with longstanding whiplash-associated disorders, which has so far resulted in one publication and two posters.
- 2014**      **Research assistant**, *Department of Clinical Sciences, Lund University*  
As part of a research stipend from the Faculty of Medicine at Lund University, I – under supervision of Eva-Ekqvall Hansson and Michael Miller – studied the gait of dizzy, elderly patients. This work resulted in two publications.
- 2014**      **Transcriber**, *Department of Health Sciences, Lund University*  
For a brief period, I worked as a transcriber for a research project within gerontology.

## 2.2 Teaching

- 2016 – now**    **Teaching assistant**, *Department of Physiotherapy, Lund University*  
I serve as a teaching assistant for students at the program of medicine.

## 2.3 Supervisor

- 2017 – 2019**    **Assistant Supervisor, bachelor's thesis**, *The Department of Orofacial Pain and Jaw Function, Malmö University*  
Supervision of two students at undergraduate level for a project regarding exercise for neck and jaw pain.
- 2017 – 2018**    **Assistant Supervisor, master's thesis**, *The Department of Orofacial Pain and Jaw Function, Malmö University*  
Supervision of two students at master's level for a project about biofeedback and posture.

## 2.4 Reviewer

- 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](https://publons.com/a/1299032) for additional information.

## 2.5 Miscellaneous

2017        **Network analyses, SBU, Stockholm, Sweden**

2016        **Conducting systematic reviews, HTA-o, Malmö, Sweden**

## 3 Publications

1. Larsson J. Mapping physical therapy research: The geographical affiliations and methodological quality of 2,959 randomized controlled trials. *Physiotherapy Theory and Practice*. 2018; Accepted for publication. doi: [10.1080/09593985.2018.1423657](https://doi.org/10.1080/09593985.2018.1423657)
2. Westergren H, Larsson J, Freeman M, Carlsson A, Jöud A, Malmström E-M. Sex-based differences in pain distribution in a cohort of patients with persistent post-traumatic neck pain. *Disability and Rehabilitation*. 2017 Jan; doi: [10.1080/09638288.2017.1280543](https://doi.org/10.1080/09638288.2017.1280543)
3. Larsson J, Miller M, Ekvall Hansson E. Vestibular asymmetry increases double support time variability in a counter-balanced study on elderly fallers. *Gait & Posture*. 2016 Mar;45:31-4. doi: [10/f8fq3f](https://doi.org/10/f8fq3f)
4. Larsson J, Ekvall Hansson E, Miller M. Increased double support variability in elderly female fallers with vestibular asymmetry. *Gait Posture*. 2015 Mar;41(3):820-4. doi: [10.1016/j.gaitpost.2015.02.019](https://doi.org/10.1016/j.gaitpost.2015.02.019)

### 3.1 Theses

1. Larsson J. Mapping physical therapy research: The geographical affiliations and methodological quality of 2,959 randomized controlled trials. *Physiotherapy Theory and Practice*. 2018; Accepted for publication. doi: [10.1080/09593985.2018.1423657](https://doi.org/10.1080/09593985.2018.1423657)
5. Larsson J. Gym-based exercise therapy for patients with persistent neck pain: A research protocol for a randomized controlled trial [Master's Thesis]. [Lund, Sweden]: Lund university; 2017.
6. Najafi D, Larsson J. The Professional Role and Technology Use Among Physical Therapists in Tokyo: A Qualitative Interview Study [Bachelor Thesis]. [Lund, Sweden]: Lund University; 2014.

### 3.2 Conference papers

7. Larsson J, Gustafsson P. A Case Study in Fitting Area-Proportional Euler Diagrams with Ellipses using eulerr. In: *Proceedings of International Workshop on Set Visualization and Reasoning*. Edinburgh, United Kingdom: CEUR Workshop Proceedings; 2018. p. 91.

### 3.3 Conference abstracts

8. Larsson J, Westergren H, Häggman-Henrikson B, Malmström E-M. Gym-based Exercise Therapy for Patients With Persistent Neck Pain. In: *Pain in Europe X: Bringing Pain Relief to All Patients*. Copenhagen, Denmark: EFIC; 2017.
9. Larsson J, Westergren H, Malmström E-M. Pain distribution after neck traumas: An analysis of 745 consecutive patients with persistent neck pain. In: *IASP 2016: The World Congress on Pain*. Yokohama, Japan; 2016.
10. Westergren H, Larsson J, Malmström E-M. Pain distribution in 745 consecutive patients with persistent pain after whiplash trauma. In: *EFIC 2015: Translating evidence into practice*. Vienna, Austria; 2015.
11. Larsson J, Westergren H, Häggman-Henrikson B, Malmström E-M. SensoriMotor Integration Lund - the SMIL gym: A supervised exercise program for patients with persistent neck pain. In: *Svenskt Smärtforum 2016*. Jönköping, Sweden; 2016.

### 3.4 Scientific communication

12. Larsson J. A letter to the editor regarding “Serratus anterior or pectoralis minor: Which muscle has the upperhand during protraction exercises?”. *Manual Therapy*. 2016 Aug;24:e1. doi: [10/gcsk6d](https://doi.org/10/gcsk6d)

## 4 Software packages

- eulerr** Area-Proportional Euler Diagrams with Ellipses  
<https://CRAN.R-project.org/package=eulerr>
- qualpalr** Automatic Generation of Qualitative Color Palettes  
<https://CRAN.R-project.org/package=qualpalr>
- komadown** R Markdown templates based on the ‘KOMA-Script’ classes for LaTeX, additionally offering cross-referencing via the ‘bookdown’ package.  
<https://CRAN.R-project.org/package=komadown>
- tactile** Extensions to ‘lattice’, providing new high-level functions, methods for existing functions, panel functions, and a theme.  
<https://CRAN.R-project.org/package=tactile>

## 5 Software and programming knowledge

Advanced	Intermediate	Novice
R	SPSS	Fortran
C++	Stan	Python
ℒ <sub>T</sub> <sup>E</sup> X	Excel	