

# Juulia T. Suvilehto

Center for Social and Affective  
Neuroscience  
Linköping University, Sweden

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## CURRENT POSITION

09/2019 - Postdoctoral Researcher, Centre for Social and Affective Neuroscience, Linköping University, Sweden

## EDUCATION

- 2018 Doctor of Science in Technology, Pass with Distinction  
Systems Neuroscience, Aalto University, Finland
- 2014 Master of Science in Technology, Pass with Distinction  
Major: Bioinformation Technology. Minors: Cognitive Science, Usability.  
Aalto University School of Electrical Engineering
- 2013 Bachelor of Science in Technology  
Major: Bioinformation Technology. Minor: Cognitive Science.  
Aalto University School of Electrical Engineering

## PUBLICATIONS

### PEER-REVIEWED JOURNAL ARTICLES

**Juulia T. Suvilehto**, Ville Renvall, Lauri Nummenmaa. (2021) *Relationship-specific encoding of social touch in somatosensory and insular cortices*. *Neuroscience*. 464, 105-116. doi:10.1016/j.neuroscience.2020.09.015

Sarah Goodday, Lauren Atkinson, Guy Goodwin, Kate Saunders, Matthew South, Clare Mackay, Mike Denis, Chris Hinds, Jim Davies, James Welch, William Stevens, Karen Mansfield, **Juulia Suvilehto**, John Geddes. (2020) *The True Colours remote symptom monitoring system: A decade of evolution*. *Journal of Medical Internet Research*. 22 (1) e15188. doi:10.2196/15188

**Juulia T. Suvilehto**, Lauri Nummenmaa, Tokiko Harada, Robin Dunbar, Riitta Hari, Robert Turner, Norihiro Sadato, Ryo Kitada. (2019) *Cultural Universalism in Social Touch*. 286. *Proceedings of the Royal Society B: Biological sciences*. doi:10.1098/rspb.2019.0467

Tarja Heiskanen, Mika Leppä, **Juulia Suvilehto**, Minna Elomaa, Ethem Akural, \*\*Tekla Larinkoski, Iiro P. Jääskeläinen, Mikko Sams, Lauri Nummenmaa. (2019) *The opioid agonist remifentanyl increases subjective pleasure*. *British Journal of Anaesthesia*. doi:10.1016/j.bja.2019.03.031 \*\*undergraduate student I supervised

Lauri Nummenmaa, **Juulia T. Suvilehto**, Enrico Glerean, Pekka Santti & Jari K. Hietanen. (2016) *Topography of Human Erogenous Zones*. *Archives of Sexual Behavior*. 45 (5) 1207-1216. doi:10.1007/s10508-016-0745-z

**Juulia T. Suvilehto**, Enrico Glerean, Robin Dunbar, Riitta Hari & Lauri Nummenmaa. (2015) *Social Touch Depends on Emotional Bonds between Humans*. Proceedings of the National Academy of Sciences of the United States of America. 112 (45) 13811-13816. doi:10.1073/pnas.1519231112

## CONFERENCE PRESENTATIONS

Putting the 'social' in social touch. (2019) Talk at the 3rd International Association for the Study of Affective Touch (IASAT) Conference. Linköping, Sweden.

Acute pain attenuates emotional experience in the body. (2018) Talk at the 7th Consortium of European Research on Emotion (CERE) Conference. Glasgow, UK.

Social touch is relationship-specific for children and adults. (2018) Talk at the 1st International Symposium for Affective Touch in Children and Adolescents. Dresden, Germany.

Cultural Universalism in Social Touch. (2017) Poster at Doctoral Program Brain & Mind Symposium. Helsinki, Finland.

Cultural Universalism in Social Touch. (2017) Poster and Data Blitz talk at 2nd Congress of the International Association for the Study of Affective Touch. Liverpool, UK.

Relationship-specific encoding of social touch in the somatosensory cortices? (2016) Poster at 46th Meeting of the Society for Neuroscience. San Diego, CA, USA.

Topography of Human Erogenous Zones. (2015) Poster at Doctoral program Brain & Mind symposium. Kirkkonummi, Finland.

U Can't Touch This: Spatial Topography of Social Touching. (2014) Poster at 1st Annual Meeting of The Society for Affective Sciences. Washington DC, USA.

## THESES

Juulia T. Suvilehto. (2018) Maintaining social bonds via touching: A cross-cultural comparison. Doctoral dissertation.

Juulia Suvilehto. (2014) Using Bring-your-own Device Model in Clinical Trials to Capture Patient-reported Outcomes. Master's thesis.

Juulia Suvilehto. (2010) Emootioiden ja kuuden persoonallisuusmittarin korrelaatio katsottaessa tunteita herättäviä elokuvaotteita. Bachelor's thesis.

## RESEARCH FUNDING

### RESEARCH FUNDING AS THE PI/MAIN APPLICANT

2020	Swedish Research Council for Health, Working Life, and Welfare (Forte) International Postdoc Grant for project <i>Social adjustments in early adulthood</i>	2.300.000 sek
2019	Linköping University Systems Neurobiology Fellowship for project <i>Digital, social, and neural phenotyping of individual differences in</i>	

	<i>touch-relevant traits</i>	600.000 sek
2017	Personal Grant, Alfred Kordelin Foundation	24.000 eur
2016	Young Researcher Grant, Emil Aaltonen foundation	28.250 eur
2015	Young Researcher Grant, Emil Aaltonen foundation	28.250 eur
2014	Young Researcher Grant, Emil Aaltonen foundation	26.500 eur

#### RESEARCH FUNDING AS A NAMED MEMBER OF THE PROJECT TEAM

2020	Swedish Research Council project grant for project <i>Touch cultures, bodily integrity and embodied socialization in preschools: Children's and educators' perspectives on physical contact</i>	5.995.593 sek
	PI: Asta Cekaite, own role: quantitative data analysis and dissemination of results	

#### PRIZES, AWARDS, AND HONOURS

2019	Aalto University Dissertation Award for exceptionally distinguished dissertation	3.000 eur
2016-'18	Travel Awards, Doctoral program Brain & Mind	2.150 eur
2017	Aalto School of Science Scientific Communication Award awarded to the Brain Twitter Conference #brainTC team	500 eur
2017	Finnish science communication award, Liikutu Tiedosta, awarded to Brain Twitter Conference #brainTC	3.000 eur
2015	Best Poster Award, Doctoral program Brain & Mind symposium	200 eur

#### RESEARCH EXPERIENCE

- 10/2018 - Postdoctoral Researcher, Department of Psychiatry
- 07/2019 - University of Oxford, the United Kingdom
  
- 03/2014 - Doctoral Candidate
- 11/2018 - Department of Neuroscience and Biomedical Engineering (NBE), Aalto University School of Science, Finland
  
- 05/2017 - Doctoral Student, Turku PET Centre,
- 06/2018 - University of Turku, Turku, Finland
  
- 10/2017 - Visiting Researcher, Department of Experimental Psychology,
- 03/2018 - University of Oxford, Oxford, the United Kingdom.
  
- 09/2016 - Visiting Researcher, Department of Psychology, University of Cambridge, Cambridge, the United Kingdom
  
- 03/2015 - Visiting Researcher, Department of Neuroscience & Imaging, University G. d'Annunzio, Chieti, Italy
  
- 07/2013 - Research Assistant,
- 02/2014 - Laboratory of Biomedical Engineering and Computational Sciences (BECS), Aalto University School of Science, Finland

#### TEACHING AND MENTORING EXPERIENCE

##### TEACHING

## University of Helsinki

2020 - Statistical analysis with R programme (online)

2021 Responsible teacher  
2 ECTS credits, graduate level

## Linköping University

2020 R for data analysis (online)

Responsible teacher

Course held internally at the Center for Social and Affective Neuroscience for affiliated researchers, no course credits

## Aalto University

2015 - Experimental and Statistical Methods in Biological Sciences I

2016 Teaching Assistant  
5 ECTS credits, Master's level

2015 Experimental and Statistical Methods in Biological Sciences II

Teaching Assistant\*

5 ECTS credits, Master's level

\*Effectively acted as co-teacher, but due to University policies the official title for this role was TA.

2010 - Introduction to Cell Biology

2012 Teaching Assistant  
6 ECTS credits, Bachelor's level

## GUEST LECTURING

## University of Gothenburg

2020 Systemutvecklingsprojekt (Bachelor's level)

## Aalto University

2015-'16 Advanced course on human brain functioning (Master's level)

## SUPERVISED RESEARCH ASSISTANTS AND STUDENTS

## Linköping University

2020 Elias Jafari

2020 Larri Mohell Malinen

## University of Oxford

2019 Niall Taylor

## Aalto University

2017 Ana Triana Hoyos

2015-'16 Timo Vehviläinen

2014-'15 Tekla Larinkoski

2014 Anna Anttalainen

## SUPERVISED BACHELOR'S THESES (AALTO UNIVERSITY)

2020 Essi Miettinen: Sosiaalisten verkostojen tutkiminen teknologia-avusteisesti

- 2015 Roope Vesterinen: Toisen välityksellä koetun kivun aivovaste  
 2014 Tuomas Alakörkkö: Emootioiden aiheuttamat muutokset ihmiskehon lämpötilassa  
 2013 Joonas Tietäväinen: Sosiaalinen koskettaminen viestinnän muotona

### INVITED TALKS

How has cohabiting vs living alone impacted social touch during the COVID-19 pandemic?. *Social BRIDGES: How the COVID-19 pandemic has changed our touch behaviour*. E-conference. June 2021.

Social touch throughout the social network. *Centre for Social and Affective Neuroscience*, Linköping University. Linköping, Sweden. May 2019.

Quantifying relationship-specificity of social touch. *Emotion and Social Cognition Lab*, Division of Biology and Biological Engineering, Caltech. Pasadena, California, US. November 2016.

Quantifying relationship-specificity of social touch. *The Somatosensory & Affective Neuroscience Group*, Research Centre in Brain and Behaviour, Liverpool John Moores University. Liverpool, United Kingdom. September 2016.

Quantifying relationship-specificity of social touch. *KatLab*, Research Department of Clinical, Educational and Health Psychology, University College London. London, United Kingdom. September 2016.

### OUTREACH

- 2020 School visit via Tutkija tavattavissa (Finnish version of Skype a Scientist) in Otaniemen lukio  
 2020 Researcher visit in Gymnasium Lärkan  
 2018 Speaker at PubhD Oxford  
 2017 Poster presentation at the Brain Awareness Week poster exhibition at University of Helsinki  
 2016 - Scientists in Schools project in Aalto University.  
 2017 Visited multiple schools Kyrkslätt Gymnasium, Helsingin kuvataidelukio, Helsingin Luonnontiedelukio, Viitasaaren lukio to talk about research

### SELECTED MEDIA COVERAGE

- 2021 Ensam är inte stark, *Forte Magasin*  
 Vuosi vailla halausta, *Kotivinkki*  
 2020 Touch Culture, in the series Anatomy of Touch, *BBC Radio 4*  
 The Coronavirus Killed the Handshake and the Hug. What Will Replace Them? *Time*  
 Miksi tarvitsemme kosketusta, *Hyvä terveys*  
 Kosketatko kaveria? – Kysyttiin tää jo? *Yle Kioski youtube channel*

- 2019 Tunteiden tiistai: miten koskettaminen edistää terveyttämme? *Yle Radio Suomi (radio)*  
Some people are uncomfortable with touchers like Biden. Should they set the rules? *Washington Post*
- 2018 Is it time to kiss goodbye to cheek-to-cheek greetings? *Financial Times*  
Paijaaminen tekee terveemmäksi (Minä väitän -sarja), *Helsingin Sanomat*
- 2017 Sormenpäät kertovat, *Tekniikan Maailma*  
Miksi suomalaisilla on suuri oman tilan tarve?, *Helsingin Sanomat*  
Tutkimuksen yllättävä tieto paljastaa suomalaiset koskettelevaksi kansaksi, *Länsi-Suomi*  
Olisitko valmis maksamaan halauksesta?, *Yle (online)*  
Mitä kosketus ihmiselle tekee, *Puoli Seitsemän, Yle TV1 (television)*
- 2015 These Body Maps Show Where We Like To Be Touched, And Where We Don't, *The Huffington Post (online)*  
¿Te puedo tocar? cómo, dónde y cuándo es aceptable el contacto físico, *BBC Mundo (online)*

## PROFESSIONAL WORK EXPERIENCE

- 2021 - Senior Data Scientist, Sahlgrenska University Hospital  
Helping different units at the hospital better utilise data in their day-to-day work in order to save resources and improve quality of care. This includes working with stakeholders, data engineering and machine learning, and developing proof of concepts. I'm also involved in a strategic program on de-centralised AI in the healthcare sector.
- 2013 Associate Product Manager, CRF Health  
Master's thesis position in Health Outcomes. Investigated the suitability of using subjects' own devices (BYOD) in capturing electronic Clinical Outcome Assessments (eCOA) in clinical trials from practical and regulatory perspectives.
- 2011 - Junior Bioinformatician, Euformatics Oy  
2012 Designed and implemented data analysis and data management software for biologists and doctors working with gene sequencing data. Trained end users and acted as technical support.

## PROFESSIONAL TRAINING

- 2019 Data Science Summer School (DS<sup>3</sup>)  
Data Science Initiative of École polytechnique and DATAIA Institute
- 2019 Teaching for Active Learning (two-day workshop)  
Oxford University
- 2017 - English for Academic Studies: Academic Writing (2 terms)  
2018 Oxford University

- 2017 AIPeda Intro, Pedagogical course (5 ECTS)  
Aalto University
- 2015 Connectivity Course: Structural and Functional Brain Connectivity via MRI and fMRI  
MGH/HST Athinoula A Martinos Center for Biomedical Imaging

### ORGANISATION OF SCIENTIFIC MEETINGS

- 2020 Organiser at OHBM Equinox (#OHBMx) Twitter Conference  
20th March 2020
- 2018 Volunteer at the Annual Meeting of the Social & Affective Neuroscience Society, Brooklyn, USA.
- 2018 Organiser at the second Brain research Twitter conference (#brainTC)  
8th March 2018
- 2017 Organiser at the inaugural Brain research Twitter conference (#brainTC)  
20th April 2017
- 2015 Organiser at Attending and Neglecting People, Tuusula, Finland  
Part of Attention and Performance series

### RELATED PROFESSIONAL SKILLS

Languages	Reading	Speaking	Writing
Finnish	native	native	native
English	fluent	fluent	fluent
Swedish	fluent	fluent	intermediate

Data-analysis tools	Experience	Specific toolboxes	Other tools
Matlab (and Octave)	> 10 years of active use	SPM Statistics & Machine Learning toolbox	Git Html, php, css
R	7 years of active use	tidyverse RMarkdown	Java Slurm
Python	4 years of increasingly active use	Nibabel Nilearn NumPy	Subversion

Data-analysis tools	Experience	Specific toolboxes	Other tools
		Psychopy PyMVPA Scikit-learn SciPy	Code repository available at  <a href="https://github.com/jtsuvile">https://github.com/jtsuvile</a>

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