# Juulia T. Suvilehto

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## CURRENT POSITION

09/2019 -   Postdoctoral Fellow, 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. (In press) *Relationship-specific encoding of social touch in somatosensory and insular cortices.* Neuroscience. 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 remifentanil 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 *Social adjustments in early adulthood*                                                           2.300.000 sek

2019       Linköping University Systems Neurobiology Fellowship for project *Digital, social, and neural phenotyping of individual differences in*

|        | *touch-relevant traits*                         | 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 *Touch cultures, bodily integrity and embodied socialization in preschools: Children's and educators' perspectives on physical contact*                5.995.593sek
PI: Asta Cekaite, own role: quantitative data analysis and dissemination of results

## PRIZES, AWARDS, AND HONOURS

| 2019     | Aalto University Dissertation Award<br>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<br>awarded to the Brain Twitter Conference #brainTC team | 500 eur |
| 2017     | Finnish science communication award, Liikutu Tiedosta,<br>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)
            Responsible teacher
            2 ECTS credits, graduate level

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

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

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        Visiting primary, secondary and upper secondary schools to talk about research.

## SELECTED MEDIA COVERAGE

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? – Kysyttiinkö 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

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 (DS³)
            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        A!Peda 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 | good | conversational | intermediate |
| German | can read with dictionary | beginner | beginner |

| Data-analysis tools | Experience | Specific toolboxes | Other tools |
|---|---|---|---|
| Matlab (and Octave) | > 10 years of active use | SPM<br>Statistics & Machine Learning toolbox | Git<br>Html, php, css |
| R | 6 years of active use | tidyverse<br>ggplot<br>RMarkdown | Java<br>Slurm<br>Subversion |
| Python | 3 years of increasingly active use | Nibabel<br>Nilearn<br>NumPy<br>Psychopy<br>PyMVPA<br>Scikit-learn<br>SciPy | Code repository available at<br><br>https://github.com/jtsuvile |