

Curriculum Vitae of Estrid Nystrup Jakobsen

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Date/Place of Birth: June 4, 1989, Fredensborg, Denmark

Nationality: Danish

EDUCATION

- 2012-2016 PhD in Natural Sciences (Dr. rer. nat.) (awarded with Magna Cum Laude)
Completed at the Max Planck Institute for Human Cognitive and Brain Sciences
Awarded by the University of Leipzig, Germany
- 2010-2011 MSc Neuroscience (awarded with Distinction)
Institute of Psychiatry, King's College London, United Kingdom
- 2007-2010 BSc (Hons) Cognitive Science (awarded with First Class Honours)
University of Westminster, United Kingdom
- 2003-2007 International Baccalaureate Diploma
American School of The Hague, The Netherlands

RESEARCH EXPERIENCE

- 2016-present Postdoctoral Fellow
Montreal Neurological Institute and Hospital, McGill University, Montreal, Quebec, Canada
- 2012-2016 Doctoral Researcher
Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany
- 02-04.2012 Research Assistant
Department of Psychology, University of Westminster, London, UK
Grant proposal preparation for research on cognitive rehabilitation in hydrocephalus patients
- 02-04.2010 Research Assistant
Meath School (specialist speech and language primary school), Ottershaw, UK
Development of a new tool for language skill level assessment in children with severe language impairment
- 08-09.2009 Laboratory Assistant
Kennedy Krieger Institute, Johns Hopkins University, MD, USA
Animal care, neurosurgery assistance, laboratory work including use of cryostat and sliding microtome, tissue staining, and microscopy

AWARDS AND SCHOLARSHIPS

- 07.2017 Jeanne Timmins Costello Fellowship for postdoctoral research
Montreal Neurological Institute and Hospital
- 06.2017 Travel Award to attend the OHBM 2017 Hackathon in Vancouver, Canada
Organization for Human Brain Mapping Open Science SIG
- 07.2016 Nine-month research fellowship
Erasmus Mundus Exchange Network in Auditory Cognitive Neuroscience

11.2015	Eight-month PhD graduation scholarship FAZIT-Stiftung
06.2015	Travel Award to attend OHBM 2015 in Honolulu, Hawaii Research Academy Leipzig
06.2014	Travel Award to attend OHBM 2014 in Hamburg, Germany Research Academy Leipzig
10.2012	Three-year PhD Studentship from IMPRS NeuroCom Max Planck Institute for Human Cognitive and Brain Sciences
09.2010	Bursary for academic achievement (partial tuition fee waiver) King's College London
09.2008	Progression award scholarship for academic achievement (full tuition fee waiver) University of Westminster

SKILLS

Languages	English - Fluent (working language) Danish - Fluent (mother tongue) Dutch - Fluent (second language) German - Basic proficiency (level B1) French - Beginner (level A2)
Programming	MATLAB and Bash (Unix shell)
Software	BrainGL, AFNI, FSL, Freesurfer, Connectome Workbench, TrackVis, SPSS

PEER-REVIEWED PUBLICATIONS

Kuehn, E.*, Dinse, J.*, **Jakobsen, E.**, Long, X., Schaefer, A., Bazin, P.L., Sereno, M., Villringer, A., Margulies, D.S. (2017) Body topography parcellates human sensory and motor cortex. *Cerebral Cortex* 27(7).

Jakobsen, E., Liem, F., Klados, M., Bayrak, S., Petrides, M., Margulies, D.S. (2016) Automated individual-level parcellation of Broca's region based on functional connectivity. *NeuroImage* (in press).

Jakobsen, E., Böttger, J., Bellec, P., Geyer, S., Rübsem, R., Petrides, M., Margulies, D.S. (2016) Subdivision of Broca's region based on individual-level functional connectivity. *European Journal of Neuroscience* 43(4).

Böttger, J., Schurade, R., **Jakobsen, E.**, Schäfer, A., Margulies, D. S. (2014). Connexel visualization: A software implementation of glyphs and edge-bundling for dense connectivity data using brainGL. *Frontiers in Neuroscience* 8(15).

Catani, M., Mesulam, M. M., **Jakobsen, E.**, Malik, F., Matersteck, A., Wieneke, C., Thompson, C. K., Thiebaut de Schotten, M., Dell'Acqua, F., Weintraub, S., Rogalski, E. (2013). A novel frontal pathway underlies verbal fluency in primary progressive aphasia. *Brain* 136(8).

TALKS/LECTURES

Jakobsen, E. (2017). *Individual-level parcellation of Broca's region based on resting-state functional connectivity*. The Feindel Brain Imaging Lecture Series, Montreal Neurological Institute, Montreal, QC, Canada.

Jakobsen, E. (2017). *Cortical parcellation based on resting-state functional connectivity*. Institut universitaire de gériatrie de Montréal, Montreal, QC, Canada.

Jakobsen, E. (2015). *The Restless Brain*. The Science and Politics of Laziness, Wellcome Collection, London, UK.

Jakobsen, E. (2015). *Individual in vivo sub-parcellation of Broca's region using functional connectivity glyphs*. The 43rd Annual Meeting of the International Neuropsychological Society, Denver, Colorado, USA.

Margulies, D.S., **Jakobsen, E.** (2015). *Visualizing Connectivity*. IMPRS NeuroCom advanced lectures on connectivity. Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.

POSTERS

Kuehn, E.*, Dinse, J.*, **Jakobsen, E.**, Long, X., Schaefer, A., Bazin, P.L., Sereno, M., Villringer, A., Margulies, D.S. *The Body Parcellates the Brain*. Presented at OHBM 2017, Vancouver, British Columbia, Canada.

Klados, M., Lauckner, M., **Jakobsen, E.**, Margulies, D.S. (2016). *Characterizing the Primary Spectrum of Personality and Brain Connectivity*. Presented at OHBM 2016, Geneva, Switzerland.

Jakobsen, E., Klados, M., Zelmer, J., Goulas, A., Margulies, D.S. (2015). *Automated sub-parcellation of Broca's region based on resting-state functional connectivity*. Presented at OHBM 2015, Honolulu, Hawaii, USA.

Jakobsen, E., Chaze, C., Böttger, J., Geyer, S., Turner, R., Petrides, M., Margulies, D.S. (2014). *Cortical parcellation of Broca's region based on functional connectivity glyphs*. Presented at OHBM 2014, Hamburg, Germany.

D'Anna, L., Mesulam, M., Thiebaut de Schotten, M., **Jakobsen, E.**, Wieneke, C., Dell'Acqua, F., Rogalski, E., Catani, M. (2014). *Abnormalities of the uncinate fasciculus correlate with behavioural symptoms in primary progressive aphasia*. Presented at OHBM 2014, Hamburg, Germany.

Jakobsen, E., Boettger, J., Geyer, S., & Margulies, D. S. (2013). *Cortical parcellation of ventrolateral prefrontal cortex based on functional connectivity glyphs*. Presented at 3rd IMPRS NeuroCom Summer School, Leipzig, Germany.

Catani, M., Mesulam, M. M., **Jakobsen, E.**, Malik, F., Matersteck, A., Wieneke, C., Thompson, C. K., Thiebaut de Schotten, M., Dell'Acqua, F., Weintraub, S., & Rogalski, E. (2013). *A novel frontal pathway underlies verbal fluency in primary progressive aphasia*. Presented at OHBM 2013, Seattle, Washington, USA.

THESES

Jakobsen, E. (2016). *Sub-dividing Broca's region based on functional connectivity: New methods for individual-level in vivo cortical parcellation*. Doctoral thesis submitted to the University of Leipzig, Germany.
Supervisor: Daniel S. Margulies

Jakobsen, E. (2011). *Breakdown of the inferior ventral network in patients with primary progressive aphasia: a DTI tractography analysis*. Master's thesis submitted to King's College London, United Kingdom.
Supervisor: Marco Catani

Jakobsen, E. (2010). *The effects of choral singing on levels of salivary cortisol and mood*.

Bachelor thesis submitted to the University of Westminster, United Kingdom.
Supervisor: Catherine Loveday

BLOG POSTS

Organization for Human Brain Mapping Blog - Contributor
[The Interplay between Art and Neuroscience](#), June 2017

Hubbub Group Blog - Contributor
[Dreaming of Electric Sheep](#), May 2015

Headtime Stories (headtimestories.wordpress.com) - Co-founder, editor, and writer (EstridJ)
[Posts by EstridJ](#)

- *The Great American Cosmic Coincidence*, September 2017
- *The epidemic of busy-bragging: How the language we use creates our reality*, February 2017
- *International day of [badass] women and girls in science* (co-written), February 2017
- *Hygge or Hibernation? A Scandi guide to fighting the winter blues*, January 2017
- *The Science of Jet Lag*, November 2016
- *Not all who mind-wander are lost: Why science says you should book your next vacation*, June 2016
- *The Restless Brain*, May 2016

EXTRACURRICULAR AND PUBLIC ENGAGEMENT ACTIVITIES

The Neuro Bureau (neurobureau.org) - Central Executive Committee member
The Neuro Bureau is a forum and collaborative initiative that supports open neuroscience and organizes events combining art and science.

- 04-06.2017: Co-organizer and co-curator of a Brain Art Exhibition entitled “Levels of Thought: From micro to macro to meta” held in June 2017 at the annual meeting of the Organization for Human Brain Mapping in Vancouver, Canada.
- 04-05.2017: Co-organizer of a Brain Art Exhibition entitled “Reaching Beyond the Obvious” in Montreal, Canada, from April to May, 2017.
- 06.2015: Winner of the brain art competition category for best image resulting from an error or bug. The image was later included in an exhibition entitled “Crossing Fibers: A Neuroretrospectroscopic View” in Berlin and Leipzig, Germany.

The Hubbub Group (hubbubresearch.org) - collaborator
Hubbub was an interdisciplinary team of scientists, artists, and public engagement professionals exploring the dynamics of rest and its opposites, based in London as the first residents of The Hub at Wellcome Collection, funded by the Wellcome Trust.

- 09.2015: Organized an interactive exhibition of methodologies used in psychology and neuroscience to quantify aspects of rest, as part of a public evening event at the Wellcome Collection in London.
- 11.2015: Speaker at a public talk and panel discussion event on the theme of laziness, hosted by BBC Radio 4 presenter Claudia Hammond at the Wellcome Collection in London.

Guerilla Science (guerillascience.org) - collaborator
Guerilla Science are a creative public engagement group based in London and New York with the aim of connecting people with science in new and creative ways.

- 07.2015: Co-organized and participated in a number of neuroscience-based public events at an annual music festival (Secret Garden Party, July 2015) in Cambridgeshire, England, including giving a 15-minute talk entitled “The Resting Brain” and hosting a pub quiz on the theme of sleep.

PEER REVIEW ACTIVITIES

NeuroImage, Elsevier

Brain Structure and Function, Springer

European Journal of Neuroscience, Wiley

CONFERENCES/WORKSHOPS ATTENDED

09.2017 MATLAB for Neuroscience workshop, Montreal, Canada
06.2017 Organization for Human Brain Mapping Annual Meeting, Vancouver, Canada
06.2017 OHBM Hackathon 2017, Vancouver, Canada
03.2017 Brainhack Global 2017, Montreal, Canada
10.2015 Grant writing workshop: From scratch to breakthrough, Leipzig, Germany
10.2015 European research funding workshop, Leipzig, Germany
10.2015 Symposium: The aesthetic and epistemic status of brain images, Berlin, Germany
07.2015 IMPRS NeuroCom Summer School, Leipzig, Germany
06.2015 Organization for Human Brain Mapping Annual Meeting, Honolulu, USA
04.2015 Hubbub Summit at The Hub at Wellcome Collection, London, UK
02.2015 International Neuropsychological Society Annual Meeting, Denver, USA
11.2014 Career planning workshop, Leipzig, Germany
10.2014 Hubbub Summit at The Hub at Wellcome Collection, London, UK
09.2014 Data visualization workshop: Well-formed information, Leipzig, Germany
07.2014 IMPRS NeuroCom Summer School, London, UK
06.2014 Organization for Human Brain Mapping Annual Meeting, Hamburg, Germany
06.2014 OHBM Hackathon 2014, Berlin, Germany
10.2013 Brainhack 2013, Paris, France
10.2013 Beauty and Value Symposium, Berlin, Germany
07.2013 IMPRS NeuroCom Summer School, Leipzig, Germany
05.2011 International School of Clinical Neuroanatomy: Frontal Lobes, Palermo, Italy
05.2011 Natbrainlab DTI tractography workshop, Palermo, Italy