Nicholas Judd



Cognitive scientist

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njudd.com

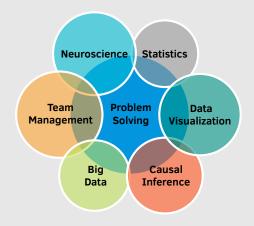


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njudd

Competencies



Coding

R • Lavaan • Ime4 • zsh

SQL • Python • Docker • Git

ETEX • Julia

Scientific Experience

Cognitive training, differential psychology, neuroimaging, behavioral genetics.

Sep 2021- **Post Doctoral Scientist**ongoing Currently responsible for two research

Currently responsible for two research lines: 1) How summer vacation effects the cortex of thousands of children and 2) using dynamic structural equation modeling to capture varibility across a set of diverse cognitive training tasks. This work is under the supervison of Prof. Rogier Kievit. A third of my time is spent as a Data Scientist with JASP Statistics implimenting an R visualization package I wrote on

Donders Institute & JASP Statistics

rainclouds.

Sep 2016- Research Scientist Karolinska Institute
Jun 2020 Published on a variety of projects related to cognitive training, natu-

Published on a variety of projects related to cognitive training, natural development, neuroimaging and behavioral genetics. Carrying out project conceptualization, design, analysis and interpretation with Dr. Torkel Klingberg. Gained skills in bayesian mixed effect modeling, SQL, longitudinal SEM, factor analysis and containerization. For part of my time I collaberated with the non-profit Cognition Matters to im-

plement and test math training in thousands of schools in Sweden.

Feb 2016- Research Assistant University of Amsterdam

Aug 2016 Collected data and wrote a thesis on high field MR imaging techniques

to atlas the human subcortex in the lab of Dr. Birte Forstmann.

May 2012- Research Assistant University California San Diego

Sep 2014 Examined the impact of mild traumatic brain injury on cognition,

the brain, and psychiatric outcomes in 300 children. We recently

published the findings.

Education

Feb 2018- Ph.D. Neuroscience Karolinska Institute

Jun 2022 Supervisors: Dr. Torkel Klingberg & Dr. Rita Almeida

2015-2017 M.Sc. Brain and Cognitive Sciences University of Amsterdam

2014-2015 M.Sc. Cognitive Science Umeå University

2014-2015 M.Sc. Psychology Umeå University

2011-2014 B.A. (Hons) Psychology DBS School of Arts

Selected Publications

Click here for a full list and on the journal name for the specific pdf.

- Judd, N., Sauce, B., Klingberg, T. (2022). Schooling substantially improves intelligence, but neither lessens nor widens the impacts of socioeconomics and genetics. NPJ Science of Learning, 7(1), 33.
- Judd, N., Klingberg, T. (2021). Training spatial cognition enhances mathematical learning in a randomized study of 17,000 children. **Nature Human Behaviour**, 5, 1548–1554.
- Judd, N., Klingberg, T., Sjöwall, D. (2021). Working memory capacity, variability, and response to intervention at age 6 and its association to inattention and mathematics age 9. **Cognitive Development**, 58, 101013.
- Judd, N., et al., (2020). Cognitive and brain development is independently influenced by socioeconomic status and polygenic scores for educational attainment.
 Proc. Natl. Acad. Sci. USA, 117(22), 12411–12418.



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Invited Talks

May 2022	American Psychiatric Association Annual meeting Leveraging Large Neuroimaging Studies to Elucidate Socioeconomic Impacts on Neurocognitive Development
Nov 2021	Centre for Educational Neuroscience Seminar, UCL Training Spatial Cognition Enhances Mathematical Learning – A Randomized Study in 17,000 Children
Aug 2021	European Association for Research on Learning and Instruction Independent effects of socioeconomic status and genetics on adolescent brain development
June 2019	Mathematical Cognition and Learning Society The promise of spatial training for mathematical improvement

Teaching experience

2022- 2023	Teacher: Rainclouds in R Workshops online and in-person	Donders Institute
2018- 2020	Teacher: Basic Human Neuroscience Medicine Program	Karolinska Institute
2018- 2020	Teacher: Neuroscience B.A. Biomedicine	Karolinska Institute
2018- 2020	Teacher: The healthy human being III Medicine Program	Karolinska Institute
2019	Assistant: Diffusion tensor imaging workshop Workshop	Karolinska Institute
2018- 2019	Assistant: Imaging in Neuroscience Doctoral Course	Karolinska Institute

Supervisory experience

2020- 2021	Evgenija Kravchenko	TH Royal Institute of Technology
2018- 2019	M.Sc. Medicine & M.Sc. Machine Learning Sebastian Ghomri	Karolinska Institute & KTH
2018- 2019	M.Sc. Neuroscience & Cognition Jeshua Tromp	Utrecht University

References

Available upon request