

Nicholas Judd

Cognitive Neuroscientist

Amsterdam, Netherlands

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Current Jacob's & eScience fellow

Using mixed methods to understand human development
Particularly interested in environmental malleability, causal inference and cognition
Avid proponent of Open Science - 'ggrain' R package creator

Academic Positions

Postdoctoral Researcher

LIFESPAN COGNITIVE DYNAMICS LAB, DONDERS INSTITUTE

- Isolating environmental influences on the brain using causal inference methods
- Examining variability (cognitive fluctuations) using Dynamic Structural Equation modeling
- Building open-source cognitive testing stimuli
- Workshops, teaching and supervision

Apr 2023 - ongoing (Nov 2025)

Nijmegen, Netherlands

Data Scientist

DONDERS INSTITUTE FOR BRAIN, COGNITION AND BEHAVIOUR

- Created ggrain - a popular open source R plotting package

Sep 2022 - March 2023

Nijmegen, Netherlands

Research Scientist

KAROLINSKA INSTITUTE

Sep 2016 - Jul 2022

Stockholm, Sweden

Research Assistant

UNIVERSITY OF AMSTERDAM

Feb 2016 - Aug 2016

Amsterdam, Netherlands

Education

Ph.D. Medical Science

DEPARTMENT OF NEUROSCIENCE, KAROLINSKA INSTITUTE

- Escaping the riptide - Probing the malleability of cognition (Prof. Klingberg & Prof. Almeida)

2018 - 2022

Stockholm, Sweden

M.Sc. Brain and Cognitive Sciences

UNIVERSITY OF AMSTERDAM

2015 - 2017

Amsterdam, Netherlands

M.Sc. Psychology & M.Sc. Cognitive Science

UMEÅ UNIVERSITY

2014 - 2015

Umeå, Sweden

B.A. Psychology (Hons)

DBS SCHOOL OF ARTS

2011 - 2014

Dublin, Ireland

Awards & Funding

Jacobs Fellow

JACOBS FOUNDATION RESEARCH FELLOWSHIP PROGRAM

165,000 CHF

2025 - 2027

eScience Fellow

THE NETHERLANDS eSCIENCE CENTER FELLOWSHIP PROGRAM

€2000 + 40 contact hours

2024 - 2025

NWO Open Science Fund

OPEN MATRICES STIMULI SET (CO-APPLICANT)

€50,000

2024 - 2025

TRAVEL GRANTS

01/22	Doctoral Travel Grant , Karolinska Institute	€3,300
06/18	New Entrant Stipend , ISMRM	€550
06/18	Society for Neuroscience Travel Grant , Amsterdam University Fund	€600

Supervision

DOCTORAL (DAILY SUPERVISOR)

PhD	Jordy van Langen , Radboud University Medical Center	09/23 - ongoing
PhD	Michael Aristodemou , Radboud University Medical Center	01/23 - ongoing
PhD	Lea Michel , Radboud University Medical Center	09/22 - 03/23

MASTERS STUDENTS

MSc	Magda Lazari , Panteion University of Social and Political Science (Research Visit)	11/24 - ongoing
MSc	Fernando Fernandez de Cuevas , Radboud University (rotation)	10/24 - ongoing
MSc	Caroline Wunn , Radboud University (Capita Selecta & rotation)	01/24 - ongoing
MSc	Ben Kretzler , Radboud University (thesis & rotation)	04/23 - 07/24
MSc	Ann Hogenhuis , Radboud University (rotation)	04/23 - 06/23
MSc	Maud Megen , Radboud University (rotation)	04/23 - 06/23
MSc	Evgenija Kravchenko , KTH Royal Institute of Technology (thesis)	09/20 - 06/21
MSc	Jeshua Tromp , Utrecht University (thesis)	09/18 - 06/19
MSc	Sebastian Ghomri , Karolinska Institute & KTH (thesis)	09/18 - 06/19

MASTERS THESIS READER

MSc	Asia Latini , Radboud University - Cognitive Neuroscience Masters	expected: 06/25
MSc	Liza Rozman , Radboud University - Cognitive Neuroscience Masters	presentation: 07/24

Teaching Experience

Data Science for Biomedical Research

DEPUTY COURSE COORDINATOR & LECTURER FOR MSc BIOMEDICAL SCIENCES

fall 2024

Radboud UMC

fMRI: data analysis and experimental design

TEACHING ASSISTANT FOR A DOCTORAL COURSE

fall 2019/20

Karolinska Institute

Basic Human Neuroscience

TEACHING ASSISTANT FOR MSc MEDICINE

2018 - 2020

Karolinska Institute

The healthy human being III

TEACHING ASSISTANT FOR MSc MEDICINE

2018 - 2020

Karolinska Institute

Neuroscience

TEACHING ASSISTANT FOR B.A. BIOMEDICINE

2018 - 2020

Karolinska Institute

Scientific English

COURSE COORDINATOR & LECTURER (SUMMER EVENING COURSE)

June 2015 - July 2015

LMU Department of Pharmacy

WORKSHOPS

Latent Growth Curve Modeling Workshop

WORKSHOP ORGANIZER FOR AIMS-2-TRIALS CONSORTIUM

Nov, 2024

Donders Institute

Using psychometrics to improve cognitive models and theory

WORKSHOP ORGANIZER FOR DYNAMIC STRUCTURAL EQUATION MODELING WORKSHOP

July, 2024

CogSci 2024

Transparent data visualization in R for researchers

WORKSHOP ORGANIZER FOR GGRAIN WORKSHOP (8 OCCASIONS)

2022 - 2024

Numerous locations

Selected Presentations

Nature and Nurture Contribution to Variation in Learning

FLUX SCIENCE OF LEARNING SYMPOSIA, SPONSORED BY JACOBS FOUNDATION (INVITED SPEAKER)

Sep, 2024

Baltimore, USA

Natural Experiments – a Tool for Causal Inference in Childhood Development

ASSOCIATION FOR PSYCHOLOGICAL SCIENCE

May, 2024

San Francisco, USA

Leveraging Large Neuroimaging Studies to Elucidate Socioeconomic Impacts on Neurocognitive Development

AMERICAN PSYCHIATRIC ASSOCIATION ANNUAL MEETING (INVITED SPEAKER)

May, 2022

New Orleans, USA

Training Spatial Cognition Enhances Mathematical Learning – A Randomized Study in 17,000 Children

CENTRE FOR EDUCATIONAL NEUROSCIENCE, UNIVERSITY COLLEGE LONDON (INVITED SPEAKER)

Nov, 2021

London, England

Five Representative Publications

links to pdfs are embedded in the title

Judd, N., Kievit, R. (2024). No effect of additional education on long-term brain structure – a preregistered natural experiment in thousands of individuals. **ELife**, 13, RP101526.

Judd, N., Aristodemou, M., Klingberg, T., Kievit, R. (2024). Interindividual Differences in Cognitive Variability Are Ubiquitous and Distinct From Mean Performance in a Battery of Eleven Tasks. **Journal of Cognition**, 7(1), 45.

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., Sauce, B., .. Klingberg, T. (2020). Cognitive and brain development is independently influenced by socioeconomic status and polygenic scores for educational attainment. **Proceedings of the National Academy of Sciences**, 117(22), 12411–12418.

References

Prof. Rogier Kievit - Donders Institute

Prof. Rita Almeida - Stockholm University

Prof. Torkel Klingberg - Karolinska Institutet

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