Marie Katharina Deserno

Postdoctoral researcher
Autism & ADHD Research Centre
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PERSONALIA

Date of birth: 24th of February, 1990
Place of birth: Aachen, Germany
Citizenship: German

EDUCATION

Postdoctoral researcher, d'Arc, Amsterdam   2019 - current
Dutch Autism & ADHD Research Centre
University of Amsterdam, The Netherlands

Doctor of Philosophy (Ph.D., cum laude), Psychology   2014 - 2018
University of Amsterdam and Dr. Leo Kannerhuis, The Netherlands
Thesis: 'Autism as a multicausal system' (top 5%)
Supervisors: Prof. H.M.Geurts, Prof. D. Borsboom, & Dr. S. Begeer

Master of Science (MSc, cum laude), Psychology   2012 - 2014
University of Amsterdam, The Netherlands
Research Master's Programme of Psychology, Major: Psychological Methods
Thesis: 'Extending the network paradigm: On the predictive value of network characteristics', Supervisors: Prof. M. Wichers, Dr. S. Epskamp, & Prof. D. Borsboom.

Bachelor of Science (BSc), Psychology   2008-2012
University of Amsterdam, The Netherlands
Thesis: 'A comparison of different psychometric perspectives on a cyclic disorder'
Supervisor: Dr. A.O.J.Cramer
Alongside my BSc: Propaedeutics Literary Studies, University of Amsterdam

Secondary School, Abitur (A-level)   2000-2008
Altes Gymnasium Oldenburg, Germany

EXPERIENCE

Visiting scholar, MRC-CBU, Cambridge   March - July, 2018
MRC Cognition and Brain Sciences Unit, University of Cambridge, Cambridge, UK
Supervisor: Dr. R.A. Kievit

Research Internship, MPIB, Berlin   February - July, 2013
Max Planck Institute for Human Development, Berlin
Supervisors: Dr. M. Riediger and Dr. G. Luong (Final grade: 9)

Research Assistant, University of Amsterdam   2011-2014
Working on different projects of the PsychoSystems Research Project
Supervisors: Prof. D. Borsboom, Prof. G.A. Kerkhof & Dr. A.O.J Cramer

Teaching Assistant, University of Amsterdam   2011-2013

Assisting in courses for 2nd year BA students: Research Methods
and Statistics II, Testtheory and Practice, Philosophy of Psychology
& Cultural Psychology

Methodology Shop, University of Amsterdam   2010-2013
Departmental advice on research methods; Chairwoman

SCIENTIFIC
OUTPUT

First author publications

Deserno, M. K., Groenman, A., Geurts, H.M. & Bathelt, J. Subgrouping individuals with
ASD and ADHD: two distinct conditions or a spectrum? *In preparation.*

Deserno, M. K., Fuhrmann, D., Borsboom, D., Begeer, S., Geurts, H. M., Bedford, R. &
Kievit, R.A. Mutualistic coupling in atypical development. *In preparation.*

Deserno, M. K., Borsboom, D., Begeer, S., van Bork, R., Hinne, M. & Geurts, H. M.
Highways to happiness: Perceived causal relations among clinicians. *Under Review.* See
psyarXiv preprint.

Deserno, M. K., Borsboom, D., Begeer, S., Agelink van Rentergem, J.A., Mataw, K.
& Geurts, H. M. Sleep determines quality of life in autistic adults: a longitudinal study.
Autism Research. Advance online publication.

Deserno, M. K.*, Blanken, T. F.*, Dalege, J., Borsboom, D., Blanken, P., Kerkhof,
G. A., & Cramer, A. O. J. (2018). Psychopathology in its full complexity: Overlapping
communities in symptom networks. *Scientific Reports, 8(1)* 5854.

Deserno, M. K., Borsboom, D., Begeer, S., & Geurts, H. M. (2017). Relating ASD
symptoms to well-being: Moving across different construct levels. *Psychological Medicine,
48(7)* 1179-1189.

Deserno, M. K., Borsboom, D., Begeer, S., & Geurts, H. M. (2016). Multicausal systems
ask for multicausal approaches: A network perspective on subjective well-being in individuals
with autism spectrum disorder. *Autism. 21(8),* 960-971.

Other publications

Hirota T., **Deserno, M. K.**, & McElroy, E. The network structure of irritability and
aggression in individuals with autism spectrum disorder. *In preparation.*

Agelink van Rentergem, J. A., **Deserno, M. K.**, Geurts, H. M. Heterogeneity in autism:
How to deal with it? A systematic review. *In preparation.*

Geurts, H. M., Groot, I., Van Heijst, B., **Deserno, M. K.** & Lever, A. G. (2017). Self-
reported well-being of ASD adults in mid- and late adulthood: Exploring potential factors
impacting who will have a higher quality of life when aging. *Under Review.*

Roestorf, A., Bowler, D.M., **Deserno, M.K.**, Howlin, P., Klinger, L., McConachie, H.,
Parr, J.P., Powell., P., van Heijst, B.F.C., & Geurts, H.M., (2019). Older adults with ASD:
The consequences of aging. Insights from a series of special interest group meetings held at
the INSAR 2016-2017.*Research in Autism Spectrum Disorders, 63,* 3-12.

Letina, S., Blanken, T.F., **Deserno, M.**, & Borsboom, D. (2018). Expanding network
analysis tools in psychological networks: Minimal spanning trees, participation coefficients,
and motif analysis applied to a network of 26 psychological attributes. *Complexity,* vol.
2019, Article ID 9424605.

Armour, C., Fried, E. I., **Deserno, M. K.**, Tsai, J., & Pietrzak, R. H. (2017). A Network Analysis of DSM-5 posttraumatic stress disorder symptoms and clinically relevant correlates in a national sample of U.S. military veterans. *Journal of Anxiety Disorders, 45,* 49-59.

Nuijten, M. B., **Deserno, M. K.**, Cramer, A. O. J., & Borsboom, D. (2016). Mental disorders as complex networks: An introduction and overview of a network approach to psychopathology. *Clinical Neuropsychiatry, 13(4/5),* 68-76.

Open Science Collaboration (2015). Estimating the reproducibility of psychological science. *Science, 349 (6251),* 943-951.

McNally, R. J., Robinaugh, D. J., Wu, G. W., Wang, L., **Deserno, M. K.**, & Borsboom, D. (2015). Mental disorders as causal systems: a network approach to posttraumatic stress disorder. *Clinical Psychological Science, 3(6),* 836-849.

Miscellaneous publications

Deserno, M.K., Kenniskring REACH-AUT, Borsboom, D., Begeer, S., & Geurts, H.M. Complexe systemen rondom autisme. *In preparation.*

Nuijten, M.B., **Deserno, M. K.**, Cramer, A.O.J., & Borsboom, D. (2013). Een symptoom komt nooit alleen: Psychologische stoornissen als complexe netwerken. *De Psycholoog, 1,* 12-23.

Deserno, M. K., & Borsboom, D. (2012) Orde in de waan. *Kunst en Wetenschap, 21,* 13-15.

Deserno, M. K. (2012). A comparison of classical test theory and item response theory. In: H. Ader & D. Mellenbergh (Eds.), *Advising on research methods: Selected topics 2012.*

TALKS

Deserno, M. K. Modelling atypical development - The utopian approach. Invited pitch at Amsterdam Brain Cognition meeting. University of Amsterdam, Amsterdam, The Netherlands.

Kievit, R.A., Borgeest, S., Simpson-Kent, I., **Deserno, M. K.**, & Fuhrmann, D. Structural Equation Modeling. 1-day workshop. MRC-CBU, Cambridge, United Kingdom.

Deserno, M. K. The network focus on small interactions and its implications for autism. Invited talk at Departmental lecture series. University of Reading, Reading, United Kingdom.

Deserno, M. K. The network takeover in the developmental literature. Invited talk for BCM meeting at the Brain & Cognition Department. University of Amsterdam, Amsterdam, The Netherlands.

Deserno, M. K. A network perspective on Autism. Invited talk for Spui25 symposium Autism: from young to old. University of Amsterdam, Amsterdam, The Netherlands.

Deserno, M. K. Mutualism in Autism. Invited talk for Philosophy of Psychiatry symposium. Antwerp University, Antwerp, Belgium.

Deserno, M. K., Fried, E. I., & Epskamp, S. Network Analysis in Psychology. Invited 2-day workshop. Harvard University, Cambridge, USA.

Deserno, M. K., Fried, E. I., & Epskamp, S. Network Analysis in Psychology. Invited 2-day workshop. Washington University, St. Louis, USA.

Deserno, M. K. & T Hof, M. Participatory research and clinical knowledge in the autism field. Invited workshop at National Mental Health Care conference (GGZkennisdag) 2015.

McNally, R.J., Robinaugh, D.J., Winnie Wu, G., Wang, L., **Deserno, M. K.**, & Cramer, A. (2014). Network analyses of PTSD symptoms in survivors of the Wenchuan Earthquake. In: *1st Rome Workshop on Experimental Psychopathology (RWEP) 2014.*

Riediger, M., Luong, G., **Deserno, M. K.**, Wruz, C., & Wagner, G.G. (2013). Longitudinal change in everyday affective experiences and variability: from adolescence to old age. In: *Gerontological Society of America, Annual Scientific Meeting 2013.*

POSTERS

Deserno, M. K., Borsboom, D., Begeer, S., Agelink van Rentergem, J.A., Mataw, K. & Geurts, H. M. Sleep determines quality of life in autistic adults: a longitudinal study. INSAR Annual Meeting 2019, Montreal, Canada.

Deserno, M. K., Fuhrmann, D., Borsboom, D., Begeer, S., Geurts, H. M., Bedford, R. & Kievit, R.A. Mutualistic coupling in atypical development. INSAR Annual Meeting 2019, Montreal, Canada.

Deserno, M. K., Borsboom, D., Begeer, S., van Bork, R., Hinne, M. & Geurts, H. M. Highways to happiness: Perceived causal relations among clinicians. INSAR Annual Meeting 2018, Rotterdam, The Netherlands.

Deserno, M. K., Borsboom, D., Begeer, S., van Bork, R., Hinne, M. & Geurts, H. M. Highways to happiness: Perceived causal relations among clinicians. National Autism Convention 2018, Rotterdam, The Netherlands.

Deserno, M. K., Borsboom, D., Begeer, S., & Geurts, H. M. Relating ASD symptoms to well-being: Moving across different construct levels. INSAR Annual Meeting 2017, San Francisco, USA.

Deserno, M. K., Borsboom, D., Begeer, S., & Geurts, H. M. Relating ASD symptoms to well-being: Moving across different construct levels. National Autism Convention 2017, Rotterdam, The Netherlands.

Deserno, M. K., Borsboom, D., Begeer, S., & Geurts, H. M. Autism Spectrum disorder: relating its symptoms to domains of well-being. Wissenschaftliche Tagung Autismus Spektrum 2017, Berlin, Germany.

Deserno, M. K., Borsboom, D., Begeer, S., & Geurts, H. M. Multicausal systems ask for multicausal approaches: A network perspective on subjective well-being in individuals with autism spectrum disorder. INSAR Annual Meeting 2016, Baltimore, USA.

Deserno, M. K., Borsboom, D., Begeer, S., & Geurts, H. M. Multicausal systems ask for multicausal approaches: A network perspective on subjective well-being in individuals with autism spectrum disorder. National Autism Convention 2016, Rotterdam, The Netherlands.

AWARDS

- Amsterdam University Fund (AUF) for a 6-week visit to Cambridge University in 2018
- Van der Gaag Grant of the Royal Netherlands Academy of Arts and Sciences 2017 (KNAW) for a 6-week visit to Cambridge University in 2018
- Young Investigator Travel Grant 2016 from the International Society for Autism Research (INSAR)
- First poster prize at the National Autism Convention 2016 from the Wetenschappelijk Tijdschrift Autisme (WTA)

TEACHING

- Guest Lecturer in 'Clinical Neuropsychology: Evidence-based practice' 2019, 40 Bachelor students
- Guest Lecturer in 'Modern Measurement' 2017, Honours programme Psychology (5 students)
- Guest Lecturer in 'Scientific and Statistical Reasoning' 2016-2018, 200 Bachelor students
- Lecturer in course 'Good Science Bad Science' 2014, Research Master of Psychology course (20 Master students), co-taught with Vera van der Molen
- Supervisor of five Bachelor's theses 2019, co-taught with Tulsi Radhoe
- Supervisor of four Bachelor's theses 2015, co-taught with Riet van Bork

OTHER PROFESSIONAL ACTIVITIES

- Organizer of the Amsterdam Brain & Cognition Summer school and symposium 2019 'The Emergent Mind', together with prof. Claudi Bockting
- Volunteer at the Community Conference of the International Society of Autism Research, Amsterdam, The Netherlands
- Founder of the Psychological Networks Summer/Winter School (PNASS), together with Jonas Dalege
- Member of the Work Council of the University of Amsterdam
- Member of the PhD committee at the faculty of Psychology, University of Amsterdam
- Member of the Scientific Advisory board at the faculty of Psychology, University of Amsterdam

MEDIA

Het computationele brein: psychologische netwerken en vrije energie - Denken met computers II. Interview on AmsterdamFM, Radio Swammerdam, December 2nd, 2018.
https://soundcloud.com/swammerdam/het-brein-als-computer-denken-met-computers-ii

SOFTWARE

Co-authored **mlvar**, R-package for multi-level vector autoregression, with Sacha Epskamp and Laura Bringmann. *Languages & Programs:* R, LISREL, SPSS, Excel and LaTeX