

Leon D. Lotter, Dr. med.

Curriculum Vitae

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Education

Sep 2022 – Ongoing	PhD in neuroscience <i>Clinician Scientist Program, Max Planck School of Cognition, Germany</i> <i>Institute of Systems Neuroscience, University Hospital HHU Duesseldorf, Germany</i> <i>INM-7: Brain and Behaviour, Research Center Juelich, Germany</i> <ul style="list-style-type: none">• Project: Multilevel brain systems underlying typical and atypical neurodevelopment• Supervision: Juergen Dukart Simon Eickhoff Julian Koenig Svenja Caspers• Collaborations:<ul style="list-style-type: none">– <i>Biological Child and Adolescent Psychiatry, University Hospital Cologne (J. Koenig)</i>– <i>Max Planck Institute of Psychiatry, Munich (E. Binder V. Spooormaker)</i>
Dec 2017 – Sep 2022	Doctor of medicine <i>Child Neuropsychology, University Hospital RWTH Aachen, Germany</i> <i>INM-7: Brain and Behaviour, Research Center Juelich, Germany</i> <ul style="list-style-type: none">• Project: Longitudinal development of resting-state fMRI alterations in Anorexia nervosa• Supervision: Kerstin Konrad Juergen Dukart Jochen Seitz• Grade: <i>summa cum laude</i>
Oct 2014 – Nov 2021	Medical studies <i>RWTH Aachen University, Germany</i> <ul style="list-style-type: none">• Elective subject: Clinical neuroscience• Clinical internships: Child and adolescent psychiatry (6 mos) Adult psychiatry (1 mo) Internal medicine (4 mos) General surgery (4 mos)

Work Experience

Sep 2023 – Ongoing	Research associate <i>Institute of Systems Neuroscience, University Hospital Duesseldorf, Germany</i> <ul style="list-style-type: none">• 100% ("postdoctoral") contract financed via Max Planck School of Cognition
Apr 2022 – Aug 2022	Research assistant <i>INM-7: Brain and Behaviour, Research Center Juelich, Germany</i> <ul style="list-style-type: none">• Project: Linking cortical thickness development to multilevel brain systems
May 2019 – Jan 2022	Student research assistant <i>Child Neuropsychology, University Hospital RWTH Aachen, Germany</i> <ul style="list-style-type: none">• Diverse projects involving neuroimaging, behavioral data analysis, and visualization
Sep 2013 – Aug 2014	Voluntary service <i>Samuha Samarthyaa, India Service Civil International, Germany</i> <ul style="list-style-type: none">• Program: <i>weltwärts</i>, German government-funded• Project: Creating barrier-free environments for people with disabilities in rural South India

Academic Contributions, Skills, and Personal Interests

Extracurricular Activities	Student Representative of the Max Planck School of Cognition (since Sep 2022) Organization of a Journal Club at the INM-7, Research Centre Juelich (since Oct 2023)
Software Tools	JuSpyce A toolbox for flexible assessment of spatial associations between brain images ABAnnotate A toolbox for ensemble-based multimodal gene-category enrichment analysis of human neuroimaging data
Peer Reviews	<i>Journal of the American Academy of Child and Adolescent Psychiatry Neuropsychopharmacology Translational Psychiatry Schizophrenia Bulletin Neuroimage Neuroimage Clinical Cortex Frontiers in Human Neuroscience BMC Psychiatry BMJ Open European Journal of Neuroscience</i>
Programming	Python since 2021 (<i>example</i>) R since 2020 Matlab since 2019 (<i>example</i>)
Languages	German native speaker English professional proficiency
Interests	Academic Developmental neuroscience and psychiatry Open science Data science and visualization Private Climbing Cycling Photography

Publications and Preprints

- Preprint | **Lotter, L. D.**, Saberi, A., Hansen, J. Y., Mistic, B., Paquola, C., ... Imagen-Consortium, Nees, F., Banaschewski, T., Eickhoff, S. B., and Dukart, J. "Regional patterns of human cortex development colocalize with underlying neurobiology". In: *bioRxiv*.
- 2024 | **Lotter, L. D.**, Nehls, S., Losse, E., Dukart, J., and Chechko, N. "Temporal dissociation between local and global functional adaptations of the maternal brain to childbirth: A longitudinal assessment". In: *Neuropsychopharmacology*.
Kasper, J., Caspers, S., **Lotter, L. D.**, Hoffstaedter, F., Eickhoff, S. B., and Dukart, J. "Resting state changes in aging and Parkinson's disease are shaped by underlying neurotransmission – a normative modeling study". In: *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*.
- 2023 | Schloesser*, L., **Lotter***, L. D., Offermann, J., Borucki, K., Biemann, R., Seitz, J., Konrad, K., and Herpertz-Dahlmann, B. "Sex-dependent clinical presentation, body image, and endocrine status in long-term remitted anorexia nervosa". In: *European Eating Disorders Review*.
Corneille, O., Havemann, J., Henderson, E. L., IJzerman, H., Hussey, I., Orban de Xivry, J.-J., Jussim, L., Holmes, N. P., Pilacinski, A., Beffara, B., Carroll, H., Outa, N. O., Lush, P., and **Lotter, L. D.** "Beware 'persuasive communication devices' when writing and reading scientific articles". In: *eLife*.
Lotter, L. D., Kohl, S. H., Gerloff, C., Bell, L., Niephaus, A., Kruppa, J. A., Dukart, J., Schulte-Rüther, M., Reindl, V., and Konrad, K. "Revealing the neurobiology underlying interpersonal neural synchronization with multimodal data fusion". In: *Neuroscience and Biobehavioral Reviews*.
- 2021 | **Lotter, L. D.**, von Polier, G., Offermann, J., Buettgen, K., Stanetzky, L., Eickhoff, S. B., Konrad, K., Seitz*, J., and Dukart*, J. "Recovery-associated resting-state activity and connectivity alterations in anorexia nervosa". In: *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*.
- 2020 | Pankert, K., Pankert, A., **Lotter, L. D.**, Herpertz-Dahlmann, B., and Konrad, K. "Autism spectrum symptoms in children with congenital blindness". In: *Zeitschrift für Kinder- und Jugendpsychiatrie und Psychotherapie*.

* Equal contributions

Conference presentations

- Jul 2023 | **Organization for Human Brain Mapping (OHBM) Annual Meeting 2023 Montréal, Canada**
 - Poster: Human cortex development is shaped by molecular and cellular brain systems
- Mar 2023 | **Minerva Symposium: Interactive Brains - From Methods to Applications Tel Aviv, Israel**
 - Invited talk: Revealing the neurobiology underlying interpersonal neural synchronization with multimodal data fusion
- Mar 2023 | **Meeting of the German Society for Child and Adolescent Psychiatry (DGKJP) Essen, Germany**
 - Poster: Linking cortical thickness development to molecular and cellular brain systems

Awards and Scholarships

- Oct 2023 | **"Borchers Badge" for excellent dissertations at RWTH Aachen University**
 - For the medical doctoral thesis "Recovery-associated resting-state activity and connectivity alterations in Anorexia nervosa" passed with distinction in 2022
- Jul 2023 | **German Academic Exchange Service (DAAD) Travel Grand**
 - To present a poster at OHBM 2023 in Montréal, Canada
- Jun 2023 | **72nd Lindau Nobel Laureate Meeting (Physiology and Medicine) Lindau, Germany**
 - Participation as "Young Scientist", supported by Research Centre Juelich