

Leon D. Lotter, M.D.

Curriculum Vitae

✉ l.lotter@fz-juelich.de
✉ leondlotter@gmail.com

🌐 leondlotter.de
🆔 0000-0002-2337-6073

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Education

- Sep 2022 – Ongoing | **PhD in neuroscience** *Research group Biomarker Development*
Institute of Systems Neuroscience, University Hospital HHU Duesseldorf, Germany
INM-7: Brain and Behaviour, Research Center Juelich, Germany
Clinician Scientist Program, Max Planck School of Cognition, Germany
- Project: Multilevel brain systems underlying typical and atypical neurodevelopment
 - Supervision: Prof. Juergen Dukart | Prof. Simon Eickhoff | Prof. Julian Koenig
 - Collaborations:
 - *Research group Biological Child and Adolescent Psychiatry, University Hospital Cologne, Germany* (Prof. Koenig)
 - *Max Planck Institute of Psychiatry, Munich, Germany* (Prof. Binder | Dr. Spormaker)
- Dec 2017 – Sep 2022 | **Doctor of medicine** *Research groups Clinical Neuropsychology and Biomarker Development*
Department of Child and Adolescent Psychiatry, University Hospital RWTH Aachen, Germany
INM-7: Brain and Behaviour, Research Center Juelich, Germany
- Project: Longitudinal development of resting-state fMRI alterations in Anorexia nervosa
 - Supervision: Prof. Kerstin Konrad | Prof. Juergen Dukart | P.D. Dr. Jochen Seitz
 - Grade: *summa cum laude*
- Oct 2014 – Nov 2021 | **Medical studies** *RWTH Aachen University, Germany*
- 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** *Research group Biomarker Development*
Institute of Systems Neuroscience, University Hospital HHU Duesseldorf, Germany
- 100% ("postdoctoral") contract financed via Max Planck School of Cognition
- Apr 2022 – Aug 2022 | **Research assistant** *Research group Biomarker Development*
INM-7: Brain and Behaviour, Research Center Juelich, Germany
- Project: Linking cortical thickness development to multilevel brain systems
- May 2019 – Jan 2022 | **Student research assistant** *Research group Clinical Neuropsychology*
Department of Child and Adolescent Psychiatry, University Hospital RWTH Aachen, Germany
- Diverse projects involving neuroimaging, behavioral data analysis, and visualization
- Sep 2013 – Aug 2014 | **Voluntary service** *Samuha Samarthya, India* | *Service Civil International, Germany*
- Program: *weltwärts*, German government-funded
 - Project: Creating barrier-free environments for people with disabilities in rural South India

Academic Contributions, Skills, and Personal Interests

Software	JuSpyce A toolbox for flexible assessment of spatial associations between brain images
Tools	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</i> <i>Neuropsychopharmacology</i> <i>Translational Psychiatry</i> <i>Neuroimage</i> <i>Neuroimage Clinical</i> <i>Cortex</i> <i>Frontiers in Human Neuroscience</i> <i>BMC Psychiatry</i> <i>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. "Human cortex development is shaped by molecular and cellular brain systems". In: <i>bioRxiv</i> . Chechko, N., Nehls, S., Losse, E., Dukart, J., and Lotter, L. D. "Temporal dissociation between local and global functional adaptations of the maternal brain to childbirth: A longitudinal assessment". In: <i>bioRxiv</i> .
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: <i>European Eating Disorders Review</i> . 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: <i>eLife</i> . 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: <i>Neuroscience and Biobehavioral Reviews</i> .
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: <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> .
2020	Pankert, K., Pankert, A., Lotter, L. D. , Herpertz-Dahlmann, B., and Konrad, K. "Autism Spectrum Symptoms in Children with Congenital Blindness". In: <i>Zeitschrift für Kinder- und Jugendpsychiatrie und Psychotherapie</i> .

* Equal contributions

Conference presentations

Jul 2023	Organization for Human Brain Mapping (OHBM) Annual Meeting 2023 <i>Montréal, Canada</i> <ul style="list-style-type: none">Poster: Human cortex development is shaped by molecular and cellular brain systems
Mar 2023	Minerva Symposium: Interactive Brains - From Methods to Applications <i>Tel Aviv, Israel</i> <ul style="list-style-type: none">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) <i>Essen, Germany</i> <ul style="list-style-type: none">Poster: Linking cortical thickness development to molecular and cellular brain systems

Awards and Scholarships

Jun 2023	72nd Lindau Nobel Laureate Meeting (Physiology and Medicine) <i>Lindau, Germany</i> <ul style="list-style-type: none">Participation as "Young Scientist", supported by the Research Centre Juelich
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