Leon D. Lotter, M.D.

Curriculum Vitae

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Education

Sep 2022 – Ongoing | **PhD in neuroscience** *Research group Biomarker Development*
INM-7: Brain and Behaviour, Research Center Juelich, Germany
Clinician Scientist Program, Max Planck School of Cognition, Germany

- Project: Multi-level brain systems underlying typical and atypical neurodevelopment
- Supervision: P.D. Dr. Juergen Dukart | Prof. Simon Eickhoff | Prof. Julian Koenig
- Lab rotations:
  - Max Planck Institute of Psychiatry, Munich, Germany (Prof. Binder | Dr. Spoormaker)
  - INM-1: Structural and functional organisation of the brain, Research Center Juelich, Germany (Prof. Amunts | Prof. Dickscheid)

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 | P.D. Dr. 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

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 multi-level 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 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 | *Journal of the American Academy of Child and Adolescent Psychiatry* | *Neuropsychopharmacology* | *Translational Psychiatry* | *Neuroimage* | *Neuroimage Clinical* | *Cortex* | *Frontiers in Human Neuroscience* | *BMC Psychiatry* | *European Journal of Neuroscience*

Programming | **Python** since 2021 (*example*) | **R** since 2020 | **Matlab** since 2019 (*example*)

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

2023 **Lotter, L. D.**, Saberi, A., Hansen, J. Y., Misic, B., Barker, G. J., Bokde, A. L. W., Desrivieres, S., Flor, H., Grigis, A., Garavan, H., Gowland, P., Heinz, A., Bruehl, R., Martinot, J.-L., Paillere, M.-L., Artiges, E., Orfanos, D. P., Paus, T., Poustka, L., Hohmann, S., Froehner, J. H., Smolka, M. N., Vaidya, N., Walter, H., Whelan, R., Schumann, G., Consortium, I., Nees, F., Banaschewski, T., Eickhoff, S. B., and Dukart, J. 2023. "Human cortex development is shaped by molecular and cellular brain systems". In: *bioRxiv*.

Schloesser*, L., **Lotter*, L. D.**, Offermann, J., Borucki, K., Biemann, R., Seitz, J., Konrad, K., and Herpertz-Dahlmann, B. 2023. "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.** 2023. "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. 2023. "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. 2021. "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. 2020. "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

Jun 2023 **72nd Lindau Nobel Laureate Meeting (Physiology and Medicine)** *Lindau, Germany*
- Participation as "Young Scientist", supported by the Research Centre Juelich