Leon D. Lotter, M.D.

Curriculum Vitae

✳ Jan 30, 1994 in Bielefeld, Germany   📇 Karl-Bosch-Str. 12, Cologne, Germany   📞 +49 176 47300350

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Education

Sep 2022 – Ongoing	**PhD in neuroscience** *Clinician Scientist Program, Max Planck School of Cognition, Germany*
	 Institute of Neuroscience and Medicine 7: Brain and Behaviour, Research Center Juelich, Germany
	 • Project: Multi-level brain systems underlying typical and atypical neurodevelopment
	 • Prospective supervisors: Prof. Simon Eickhoff | P.D. Dr. Juergen Dukart
	 • Lab rotations:
	    – Max Planck Institute of Psychiatry, Munich, Germany (Prof. Binder | Dr. Spoormaker)
	    – Institute of Neuroscience and Medicine 1: Structural and functional organisation of the brain, Research Center Juelich (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* *Institute of Neuroscience and Medicine 7: Brain and Behaviour, Research Center Juelich, Germany* • Project: Longitudinal development of resting-state fMRI alterations in Anorexia nervosa • Supervisors: 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* *Institute of Neuroscience and Medicine 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 and 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: *medRxiv*.

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*.

2022 | Corneille, O., Carroll, H., Havemann, J., Henderson, E. L., Holmes, N. P., **Lotter, L. D.**, Lush, P., and Outa, N. 2022. "Reflecting on the use of persuasive communication devices in academic writing". In: *Zenodo*.

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

Jun 2023 | **72nd Lindau Nobel Laureate Meeting (Physiology and Medicine)** *Lindau, Germany*
- Accepted for participation as "young scientist" for the Research Centre Juelich

Mar 2023 | **Minerva Symposium: Interactive Brains - From Methods to Applications** *Tel Aviv, Israel*
- Talk: Revealing the neurobiology underlying interpersonal neural synchronization with multimodal data fusion

Mar 2023 | **Meeting of the German Society for Child and Adolescent Psychiatry** *Essen, Germany*
- Poster: Linking cortical thickness development to molecular and cellular brain systems