

DR. KATHARINA MARIA BROSCH

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RESEARCH EXPERIENCE

Postdoctoral Fellow

Feinstein Institutes for Medical Research, NY, US (PI: Dr. Sunny Tang) Since 12/2025

- Conducting natural language processing research to identify linguistic risk markers associated with psychiatric illnesses.

Postdoctoral Fellow

Feinstein Institutes for Medical Research, NY, US (PI: Dr. Elvisha Dhamala) 2023 - 2025

- Developed machine learning models linking brain structure and behavior to psychiatric risk and resilience.

Postdoctoral Fellow

University of Marburg, Germany (PI: Dr. Nina Alexander) 2021- 2023

- Led design and execution of MRI study on Post-COVID neurological outcomes, secured research funding (€1,385).
- Coordinated large-scale international collaborations as part of the [ENIGMA](#) consortium.

PhD student

University of Marburg, Germany (PI: Dr. Tilo Kircher) 2018 - 2021

- Managed and analyzed longitudinal datasets integrating neuroimaging, clinical diagnostics, and neuropsychological testing in the FOR2107 study
- Conducted clinical interviews and neuropsychological assessments.

Research assistant

University of Mainz, Germany 2018

Research assistant

University of Ulm, Germany 2016

EDUCATION

PhD Neuroscience

University of Marburg, Germany 2018 - 2022

Thesis: "The interaction of risk and protective factors for mental disorders on psychopathology and brain morphometry" (Summa cum laude)

Master of Science, Psychology

University of Mainz, Germany 2016 - 2018

Bachelor of Science, Psychology

University of Ulm, Germany 2014 – 2016

Bachelor Studies Psychology

Hochschule für Gesundheit und Sport, Ismaning, Germany 2011 - 2014

AWARDS, HONORS, AND FUNDING

- Advancing Women in Science and Medicine (AWSM) **Educational Advancement Award (\$5,000)** and **Young Investigator Award (\$2,000)** May 2026
- Society for Neuroscience (SFN) **Trainee and Professional Development Award** August 2025
- Advancing Women in Science and Medicine (AWSM) **Young Investigator Award (\$3,000)** April 2025
- Selected for Scientific Session and **Travel Award** for ABCD Insights & Innovations Meeting (AIIM25) in Bethesda, US March 2025
- Selected as Early-Career Scientist Short Talk and **Travel Grant** for Resilience Symposium Mainz 2024, Germany (**\$1,900**) September 2024
- International Brain Research Organization (IBRO) **Travel Grant (\$1,900)** July 2024
- Advancing Women in Science and Medicine (AWSM) **Educational Advancement Award (\$5,000)** April 2024
- Selected as [Early-Career Scientist Short Talk](#) and **Travel Grant** for Resilience Symposium Mainz 2022, Germany September 2022

- **Internal funding** for a Research Assistant for Post-COVID Study (**1,385.10€**) May 2022
- **Presentation Award** at DGPPN conference in Berlin, Germany (**500€**) November 2021
- **Conference Travel Grant** from Center for Mind, Brain, and Behavior, Germany (CMBB) (**450€**) November 2019

TEACHING

- **Frankfurt University of Applied Sciences, Germany** Winter Semester 22/23
Social Work Bachelor's Seminar *Psychosocial Disorders*,
3.75 hrs/wk, 12 wks ($n = 20$; 5 teaching units)
- **University of Marburg, Germany**
Neuroscience Master's Seminar *Neurobiology of personality and cognitive abilities*,
1.5 hrs/wk, 12 wks ($n = 7$; 2 teaching units)
- **Frankfurt University of Applied Sciences, Germany** Summer Semester 22
Social Work Bachelor's Seminar *Psychosocial Disorders*,
3.75 hrs/wk, 12 wks ($n = 11$; 5 teaching units)
- **University of Marburg, Germany**
Neuroscience Master's Seminar *Neurobiology of personality and cognitive abilities*,
1.5 hrs/wk, 12 wks ($n = 6$; 2 teaching units)
- Supervised a summer intern 2024
- Supervised two master theses 2022 – 2023
- Supervised interns, medical students and research assistants 2018 - 2023

ORAL PRESENTATIONS & INVITED RESEARCH TALKS

- "Tracking the Impact of Childhood Adversity on Brain Development", March 2025
ABCD Insights & Innovations Meeting in Bethesda, US,
Scientific Session Presentation
- "Risk and protective factors for psychiatric illnesses and their joint impact on brain and behavior." [Symposium](#) at OHBM in Seoul, South Korea, June 2024
Symposium Chair and Presenter
- "Experiences of extreme physical and sexual violence are associated with cortical thinning in children: an Adolescent Brain and Cognitive Development Study", September 2024
Resilience Symposium Mainz, Germany, **Early-Career Scientist Short Talk**
- "Transdiagnostic morphometric correlates of psychopathology in major depression, bipolar disorder and schizophrenia spectrum disorder", Zucker Hillside Hospital, March 2023
Feinstein Institutes for Medical Research, Glen Oaks, NY, **Oral Presentation**
- "Hold me tight – Clinical and neural correlates of interpersonal resilience", September 2022
Resilience Symposium Mainz, Germany, **Early-Career Scientist Short Talk**
- "Shared hippocampal atrophy in patients with major psychiatric disorders", November 2021
DGPPN conference in Berlin, Germany, **Oral Presentation**
- "DLPFC volume is a neural correlate of resilience in healthy high-risk individuals with both childhood maltreatment and familial risk for depression", July 2021
[Lecture](#) at Leibniz Institute for Resilience, **Oral Presentation**

TECHNICAL SKILLS

Python, scikit-learn, R, PROCESS, SPSS, CAT12, SPM, FSL, Neuropsychological & Clinical Testing

AD HOC REVIEWER

Molecular Psychiatry, Biological Psychiatry, Psychological Medicine, Developmental Cognitive Neuroscience, Neuroscience & Behavioral Reviews, Medical Principles and Practice, Journal of Clinical Psychology, Harvard Review of Psychiatry, Translational Psychiatry, Development and Psychopathology

TRAININGS

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| - Attended Project Management for Scientists Course | September 2021 |
| - Attended COGNOMICS Workshop "Capturing the Brain for Neuroimaging Genomics" | June 2021 |
| - Attended Critical Reasoning and Logic Course | May 2021 |
| - Attended SPM Workshop Functional Imaging & Matlab UKE Hamburg, Germany | September 2019 |
| - Training as Systemic Counselor and Coach | 2016 |

LANGUAGES

German (native), English (C1), French (B2), Spanish (B2), Latin

FIRST AUTHOR

1. **Brosch, K.**, Hammes, V., Usemann, P., Stein, F., Tang, S. X., Schwartz, R. M., Thomas-Odenthal, F., Teutenberg, L., ..., Alexander, N. Secure Attachment despite Childhood Maltreatment: Behavioral and Neural Correlates of Interpersonal Resilience. <https://doi.org/10.64898/2026.07.20.739488>, bioRxiv 2026.07.20.739488 (2026). (**Submitted**)
2. **Brosch, K.**, Wiersch, L., Christensen, E., Rakesh, D., Hanson, J., Schwartz, R. M. & Dhamala, E. Shared Neural Signatures of Socioeconomic Status, Scarcity, and Neighborhood Threat in Youth. bioRxiv 2025.06.11.659188 (2025). <https://doi.org/10.1101/2025.06.11.659188> (**In Revision**)
3. **Brosch, K.***, Hammes, V.*, Usemann, P., Stein, F., Zika, S., Schrott, F., ... & Alexander, N. (2025). Unique neural signatures of childhood sexual abuse revisited. *medRxiv*, 2025-02. <https://doi.org/10.1101/2025.02.10.25322009> (**In Revision**).
4. **Brosch, K.**, Christensen, E., Wiersch, L., Hagen, D., Orchard, E. R., D'Anna-Hernandez, K., Stolzenberg, D. S., & Dhamala, E. (2025). Commentary on "Having two children might be best for women's mental health: Evidence from UK Biobank". *Journal of affective disorders*, 119687. Advance online publication. <https://doi.org/10.1016/j.jad.2025.119687>
5. **Brosch, K.**, Dhamala, E. Influences of sex and gender on the associations between risk and protective factors, brain, and behavior. *Biology of Sex Differences* 15, 97 (2024). <https://doi.org/10.1186/s13293-024-00674-4>
6. **Brosch, K.***, Stein, F.*, Schmitt, S., Pfarr, J. K., Ringwald, K. G., Thomas-Odenthal, F., Meller, T., Steinsträter, O., Waltemate, L., Lemke, H., Meinert, S., Winter, A., Breuer, F., Thiel, K., Grotegerd, D., Hahn, T., Jansen, A., Dannlowski, U., Krug, A., Nenadić, I., ... Kircher, T. (2022). Reduced hippocampal gray matter volume is a common feature of patients with major depression, bipolar disorder, and schizophrenia spectrum disorders. *Molecular Psychiatry*, 27(10), 4234–4243. <https://doi.org/10.1038/s41380-022-01687-4>
7. **Brosch, K.**, Meller, T., Pfarr, J. K., Stein, F., Schmitt, S., Ringwald, K. G., Waltemate, L., Lemke, H., Thiel, K., Schrammen, E., Hülsmann, C., Meinert, S., Dohm, K., Leehr, E. J., Opel, N., Krug, A., Dannlowski, U., Nenadić, I., & Kircher, T. (2022). Which traits predict elevated distress during the Covid-19 pandemic? Results from a large, longitudinal cohort study with psychiatric patients and healthy controls. *Journal of Affective Disorders*, 297, 18–25. <https://doi.org/10.1016/j.jad.2021.10.017>
8. **Brosch, K.**, Stein, F., Meller, T., Schmitt, S., Yuksel, D., Ringwald, K. G., Pfarr, J. K., Waltemate, L., Lemke, H., Opel, N., Meinert, S., Dohm, K., Grotegerd, D., Goltermann, J., Repple, J., Winter, A., Jansen, A., Dannlowski, U., Nenadić, I., Kircher, T., ... Krug, A. (2021). DLPFC volume is a neural correlate of resilience in healthy high-risk individuals with both childhood maltreatment and familial risk for depression. *Psychological Medicine*, 52(16), 1–7. Advance online publication. <https://doi.org/10.1017/S0033291721001094>

CO-AUTHOR

9. Tang, S. X., Li, J., **Brosch, K.**, Massouh, N., Yin, S., Bhola, S., Behbehani, L. M., Berretta, S. A., Contreras, H., Simpson, W., Kane, J. M., & Spilka, M. J. (2026). ACES: ascertaining diagnosis classification with elicited speech in individuals with heterogeneous, comorbid psychiatric disorders. *Psychiatry research*, 365, 117389. Advance online publication. <https://doi.org/10.1016/j.psychres.2026.117389>
10. Noor, L., Stein, F., **Brosch, K.**, Pfarr, J. K., Teutenberg, L., Thomas-Odenthal, F., Usemann, P., Wroblewski, A., Meinert, S., ..., Kircher, T. (2026). Negative expectations in major depression: Association with brain structure and course of illness. *Journal of affective disorders*, 122410. Advance online publication. <https://doi.org/10.1016/j.jad.2026.122410>
11. Wiersch, L., **Brosch, K.**, Christensen, E., & Dhamala, E. (2026). Investigating the impact of stressful life events on neuroanatomy across adolescence. *bioRxiv : the preprint server for biology*, 2026.05.06.723376. <https://doi.org/10.64898/2026.05.06.723376> (**Preprint**)
12. Hammes, V., **Brosch, K.**, Usemann, P., David, F., Scherer, H., Schmitter, C., ... & Alexander, N. (2025). Resilience Beyond Diagnosis: Prospective Neural Correlates of Better-Than-Expected Outcomes in Depression. *medRxiv*, 2025-12. (**Preprint**)
13. Lamsma, J., Raine, A., Kia, S. M., Cahn, W., Arold, D., Banaj, N., Barone, A., **Brosch, K.**, Brouwer, R., Brunetti, A., Calhoun, V. D., Chew, Q. H., Choi, S., Chung, Y. C., Ciccirelli, M., Cobia, D., Cocozza, S., Dannlowski, U., Dazzan, P., de Bartolomeis, A., ... Nickl-Jockschat, T. (2026). Structural brain abnormalities and aggression in schizophrenia: mega-analysis of data from 2095 patients and 2861 healthy controls via the ENIGMA consortium. *Molecular Psychiatry*, 31(4), 2273–2282. <https://doi.org/10.1038/s41380-025-03365-7>
14. Usemann, P., David, F. S., **Brosch, K.**, Stein, F., Wroblewski, A., Thomas-Odenthal, F., ... & Alexander, N. (2026). Genetic predisposition to inflammation and psychopathology: A transdiagnostic network analysis. *Journal of Affective Disorders*, 121424. <https://doi.org/10.1016/j.jad.2026.121424>
15. Shen, X., Toenders, Y. J., Han, L. K. M., Weihs, A., Alexander, N., Andlauer, T. F. M., **Brosch, K.**, Forstner, A. J., Grotegerd, D., Hahn, T., Hermesdorf, M., Hosten, N., Jamalabadi, H., Meinert, S., Milaneschi, Y., Sämann, P. G., Stein, F., Stolicyn, A., Teutenberg, L., Thng, G., ... ENIGMA MDD working group (2026). Association between polygenic risk for Major Depression and brain structure in a mega-analysis of 50,975 participants across 11 studies. *Molecular Psychiatry*, 31(2), 611–621. <https://doi.org/10.1038/s41380-025-03136-4>
16. Goya-Maldonado, R., Erwin-Grabner, T., Zeng, L. L., Ching, C. R. K., Aleman, A., Amod, A. R., Basgoze, Z., Benedetti, F., Besteher, B., **Brosch, K.**, Bülow, R., Colle, R., Connolly, C. G., Corruble, E., Couvy-Duchesne, B., Cullen, K., Dannlowski, U., Davey, C. G., Dols, A., Ernsting, J., ... ENIGMA Major Depressive Disorder working group (2026). Classification of major depressive disorder using vertex-wise brain sulcal depth, curvature, and thickness with a deep and a shallow learning model. *Molecular Psychiatry*, 31(3), 1517–1529. <https://doi.org/10.1038/s41380-025-03273-w>
17. Ng, H. X., Abé, C., Alda, M., Alonso-Lana, S., Anmella, G., Bauer, J., Borgers, T., **Brosch, K.**, Busatto, G. F., Bøen, E., Canales-Rodríguez, E. J., Cannon, D. M., Chaim-Avancini, T. M., Cole, J. H., Dannlowski, U., De La Cruz, A., Einenkel, K., Elvåshagen, T., Favre, P., Fisch, L., ... ENIGMA Brain Age Working Group (2026). Brain aging in bipolar disorder using a neuroimaging and machine learning-derived metric: Findings from the ENIGMA BD Working Group. *Journal of affective disorders*, 121234. Advance online publication. <https://doi.org/10.1016/j.jad.2026.121234>

18. Thomas-Odenthal, F., Teutenberg, L., Stein, F., Alexander, N., Bonnekoh, L. M., **Brosch, K.**, Flinkenflügel, K., Goltermann, J., Grotegerd, D., Hahn, T., Jansen, A., Leehr, E. J., Meinert, S., Pfarr, J. K., Renz, H., Ringwald, K., Schürmeyer, N., Stief, T., Straube, B., Thiel, K., ... Kircher, T. (2026). Differential impact of manic versus depressive episode recurrence on longitudinal gray matter volume changes in bipolar disorder. *Neuropsychopharmacology* : 51(3), 703–711. <https://doi.org/10.1038/s41386-025-02197-x>
19. Dhamala, E., Christensen, E., Hanson, J. L., Ricard, J. A., Arcaro, N., Bhola, S., Wiersch, L., **Brosch, K.**, Yeo, B. T. T., Holmes, A. J., & Yip, S. W. (2026). Neuroanatomy reflects individual variability in impulsivity in youth. *Molecular Psychiatry*, 10.1038/s41380-026-03526-2. Advance online publication. <https://doi.org/10.1038/s41380-026-03526-2>
20. Serrarens, C., Toenders, Y. J., Pozzi, E., Aleman, A., Alexander, N., Başgöze, Z., Belov, V., Berger, K., **Brosch, K.**, Bülow, R., Busatto, G. F., Capitão, L. P., Connolly, C. G., Couvy-Duchesne, B., Cullen, K. R., Dannlowski, U., Davey, C. G., de Zubicaray, G. I., Dima, D., Dohm, K., ... van Velzen, L. S. (2025). Regional brain morphology and current antidepressant use: findings from 32 international cohorts from the ENIGMA major depressive disorder working group. *Molecular psychiatry*, 30(12), 5625–5636. <https://doi.org/10.1038/s41380-025-03310-8>
21. Goltermann, J., Winter, N. R., Meinert, S., Grotegerd, D., Kraus, A., Flinkenflügel, K., Altegoer, L., Krieger, J., Leehr, E. J., Böhnlein, J., Bonnekoh, L. M., Richter, M., Hahn, T., Fisch, L., Gruber, M., Hermesdorf, M., Berger, K., Arolt, V., **Brosch, K.**, Stein, F., ... Dannlowski, U. (2025). Gray matter correlates of childhood maltreatment lack replicability in a multi-cohort brain-wide association study. *Nature Communications*, 16(1), 8290. <https://doi.org/10.1038/s41467-025-62374-w>
22. Lella, A., Antonucci, L. A., Passiatore, R., Bellantuono, L., Selvaggi, P., Popolizio, T., Di Sciascio, G., Saponaro, A., Ricci, P., Altamura, M., Blasi, G., Rampino, A., Vriend, C., ... **Brosch, K.**, ... Pergola, G. (2025). Thalamocortical Structural Covariation Networks Are Related to Familial Risk for Schizophrenia in the Context of Lower Nuclei Volume Estimates in Patients: An ENIGMA Study. *Biological Psychiatry*, 98(9), 698–711. <https://doi.org/10.1016/j.biopsych.2025.03.027>
23. van Velzen, L. S., Colic, L., Ceja, Z., Dauvermann, M. R., Villa, L. M., Savage, H. S., Toenders, Y. J., Dehestani, N., Zhu, A. H., Campos, A. I., Salminen, L. E., Alda, M., Agartz, I., Alexander, N., Ayesa-Arriola, R., Ballard, E. D., Banaj, N., Barkhau, C., ... **Brosch, K.**, ... Schmaal, L. (2025). Transdiagnostic alterations in white matter microstructure associated with suicidal thoughts and behaviours in the ENIGMA Suicidal Thoughts and Behaviours consortium. *Translational psychiatry*, 15(1), 429. <https://doi.org/10.1038/s41398-025-03602-1>
24. Ratzsch, J., Richter, M., Blitz, R., Colic, L., Gutfleisch, L., Goltermann, J., Gruber, M., Straube, B., Alexander, N., Jamalabadi, H., Stein, F., **Brosch, K.**, Thomas-Odenthal, F., Usemann, P., Teutenberg, L., Repple, J., Kircher, T., ... Opel, N. (2025). Childhood maltreatment's influence on the dynamic course of depression: symptom trajectories during inpatient treatment and after discharge. *Psychological medicine*, 55, e127. <https://doi.org/10.1017/S0033291725000984>
25. Dietze, L. M. F., McWhinney, S. R., Favre, P., Abé, C., Alexander, N., Barkhau, C., Benedetti, F., Berk, M., Bøen, E., Boye, B., **Brosch, K.**, Canales-Rodríguez, E. J., Cannon, D. M., Carruthers, S. P., Corkum, E. L. V., Dannlowski, U., Diaz-Zuluaga, A. M., Dohm, K., Elvsåshagen, T., Flinkenflügel, K., ... ENIGMA BMI-X Working Group (2025). White matter microstructure in obesity and bipolar disorders: an ENIGMA bipolar disorder working group study in 2186 individuals. *Molecular Psychiatry*, 30(5), 1770–1779. <https://doi.org/10.1038/s41380-024-02784-2>
26. Teutenberg, L., Stein, F., Thomas-Odenthal, F., Usemann, P., **Brosch, K.**, Winter, N., Goltermann, J., Leenings, R., Konowski, M., Barkhau, C., Fisch, L., Meinert, S., Flinkenflügel, K., Schürmeyer, N., Bonnekoh, L., Thiel, K., Kraus, A., Alexander, N., Jansen, A., Nenadić, I., ... Kircher, T. (2025). Machine learning-based prediction of illness course in major depression: The relevance of risk factors. *Journal of affective disorders*, 374, 513–522. <https://doi.org/10.1016/j.jad.2025.01.060>
27. Richter, M., Emden, D., Leenings, R., Winter, N. R., Mikolajczyk, R., Massag, J., Zwicky, E., Borgers, T., Redlich, R., Koutsouleris, N., Falguera, R., Edwin Thanarajah, S., Padberg, F., Reinhard, M. A., Back, M. D., Morina, N., Buhlmann, U., Kircher, T., Dannlowski, U., ... **Brosch, K.**, MBB consortium, ... Opel, N. (2025). Generalizability of clinical prediction models in mental health. *Molecular Psychiatry*, 10.1038/s41380-025-02950-0. Advance online publication. <https://doi.org/10.1038/s41380-025-02950-0>
28. Kraus, A., Dohm, K., Borgers, T., Goltermann, J., Grotegerd, D., Winter, A., Thiel, K., Flinkenflügel, K., Schürmeyer, N., Hahn, T., Langer, S., Kircher, T., Nenadić, I., Straube, B., Jamalabadi, H., Alexander, N., Jansen, A., Stein, F., **Brosch, K.**, Usemann, P., ... Dannlowski, U. (2025). Brain structural correlates of an impending initial major depressive episode. *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*, 10.1038/s41386-025-02075-6. Advance online publication. <https://doi.org/10.1038/s41386-025-02075-6>
29. Nenadić, I., Mosebach, J., Schmitt, S., Meller, T., Stein, F., **Brosch, K.**, Ringwald, K., Pfarr, J. K., Meinert, S., Lemke, H., Waltemate, L., Thiel, K., Opel, N., Repple, J., Grotegerd, D., Steinsträter, O., Sommer, J., Hahn, T., Jansen, A., Dannlowski, U., ... Kircher, T. (2025). Fronto-Thalamic Structural Connectivity Associated With Schizotypy, a Psychosis Risk Phenotype, in Nonclinical Subjects. *Schizophrenia bulletin*, 51(Suppl 2), S137–S148. <https://doi.org/10.1093/schbul/sbad143>
30. Stein, F., Gudjons, A. M., **Brosch, K.**, Keunecke, L. M., Pfarr, J. K., Teutenberg, L., Thomas-Odenthal, F., Usemann, P., Wersching, H., Wroblewski, A., Flinkenflügel, K., Goltermann, J., Grotegerd, D., Meinert, S., Thiel, K., Winter, A., Alexander, N., Hahn, T., Jamalabadi, H., Jansen, A., ... Kircher, T. (2025). Transdiagnostic types of formal thought disorder and their association with gray matter brain structure: a model-based cluster analytic approach. *Molecular Psychiatry*, 10.1038/s41380-025-03009-w. Advance online publication. <https://doi.org/10.1038/s41380-025-03009-w>
31. Flinkenflügel, K., Meinert, S., Hirtsiefer, C., Grotegerd, D., Gruber, M., Goltermann, J., Winter, N. R., Stein, F., **Brosch, K.**, Leehr, E. J., Böhnlein, J., Dohm, K., Bauer, J., Redlich, R., Hahn, T., Repple, J., Opel, N., Nitsch, R., Jamalabadi, H., Straube, B., ... Dannlowski, U. (2024). Associations between white matter microstructure and cognitive decline in major depressive disorder versus controls in Germany: a prospective case-control cohort study. *The Lancet. Psychiatry*, 11(11), 899–909. [https://doi.org/10.1016/S2215-0366\(24\)00291-8](https://doi.org/10.1016/S2215-0366(24)00291-8)
32. Flinkenflügel, K., Gruber, M., Meinert, S., Thiel, K., Winter, A., Goltermann, J., Usemann, P., **Brosch, K.**, Stein, F., Thomas-Odenthal, F., Wroblewski, A., Pfarr, J. K., David, F. S., Beins, E. C., Grotegerd, D., Hahn, T., Leehr, E. J., Dohm, K., Bauer, J., Forstner, A. J., ... Dannlowski, U. (2024). The interplay between polygenic score for tumor necrosis factor- α , brain structural connectivity, and processing speed in major depression. *Molecular Psychiatry*, 29(10), 3151–3159. <https://doi.org/10.1038/s41380-024-02577-7>

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