

**Dr. EDDA BILEK****1) General information**

Date of birth: 7 March, 1983  
 Gender: Female  
 Address: Heidelberg University  
 Medical Faculty Mannheim  
 Department of Psychiatry and Psychotherapy  
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 Position: Senior scientist  
 Children: None  
 Parental leave, if applicable: None

**2) University training and degree**

2003 - 2010 Studies in Psychology, University of Frankfurt, Germany

**3) Advanced academic qualifications**

2019 License to practice psychotherapy (behavioural therapy), Germany  
 2017 Doctoral dissertation; Mentor: Prof. Andreas Meyer-Lindenberg Department of Psychiatry and Psychotherapy, Central Institute for Mental Health, Medical Faculty Mannheim, Heidelberg University

**4) Postgraduate professional career**

Since 2022 Senior scientist with Prof. Dr. Dr. Heike Tost, Department of Psychiatry and Psychotherapy, Central Institute for Mental Health  
 2019 - 2022 Fellow with Prof. Karl Friston, Wellcome Centre for Human Neuroimaging, Institute of Neurology, University College London, UK  
 2017 - 2019 Postdoctoral researcher with Prof. Dr. Dr. Heike Tost, Department of Psychiatry and Psychotherapy, Central Institute for Mental Health  
 2014 - 2019 Psychotherapist in training, Centre for Psychological Psychotherapy (ZPP), Mannheim  
 2010 - 2017 PhD student with Prof. Dr. Andreas Meyer-Lindenberg, Department of Psychiatry and Psychotherapy, Central Institute for Mental Health

**5) Other**Awards and honours:

2018 Gips-Schüle-Nachwuchspreis für herausragende MINT-Doktorarbeit (STEM Dissertation Award; Gips-Schüle Foundation, 1st runner up, 5000€).  
 2017 Hans-Heimann-Preis Promotionspreis DGPPN (Dissertation Award; German Association for Psychiatry, Psychotherapy and Psychosomatics; 5000€).

- 2017 Merit Award, Annual Meeting of the Organization for Human Brain Mapping, \$2000.
- 2010 Ph.D. grant award: faculty scholarship for participation in the International Graduate Program in Translational Neuroscience of the Collaborative Research Center 636 funded by DFG (2010-2012).

Panels and coordinating functions:

- Since 2022 Speaker of the Young Investigators (ZIHUB), DZPG (German Centre for Mental Health)

**6) Publications**

**A)**

- Bilek, E., Zeidman, P., Kirsch, P., Tost, H., Meyer-Lindenberg, A. Directed coupling in multi-brain networks underlies generalized synchrony during social exchange. **NeuroImage**; 252, 119038, 2022.
- Smith, R., Moutoussis, M., Bilek, E. Simulating the computational mechanisms of cognitive and behavioral psychotherapeutic interventions: Insights from active inference. **Scientific Reports**; 11(1), 1-16, 2021.
- Smith, R., Taylor, S., Bilek, E. Computational mechanisms of substance use: recent evidence and its relevance to addiction medicine. **Current Addiction Reports**; 8(4), 509-519, 2021.
- Fehlner, P., Bilek, E., Harneit, A., Boehringer, A., Moessnang, C., Schaefer, A., Meyer-Lindenberg, A., Tost, H. Neural responses to social evaluative threat in the absence of negative investigator feedback and provoked performance failures. **Human Brain Mapping**; 41(8), 2092-2103, 2020.
- Bilek, E., Itz, M., Stoessel, G., Ma, R., Berhe, O., Clement, L., Zang, Z., Robnik, L., Plichta, M., Neukel, C., Schmahl, C., Kirsch, P., Meyer-Lindenberg, A., Tost, H. Deficient amygdala habituation to threatening stimuli in borderline personality disorder relates to adverse childhood experiences. **Biological Psychiatry**; 86, 930–938, 2019.
- Bilek, E., Zang, Z., Wolf, I., Hentrich, F., Moessnang, C., Braun, U., Treede, R.-D., Magerl, W., Meyer-Lindenberg, A., Tost, H. Neural network-based alterations during repeated heat pain stimulation in major depression. **European Neuropsychopharmacology**; 29, 1033-1040, 2019.
- Goelman, G., Dan, R., Stoessel, G., Tost, H., Meyer-Lindenberg, A., Bilek, E. Bidirectional signal exchanges and their mechanisms during joint attention interaction - a hyperscanning fMRI study. **Neuroimage**; 198, 242-254, 2019.
- Bilek, E., Stoessel, G., Schaefer, A., Clement, L., Ruf, M., Robnik, L., Neukel, C., Tost, H., Kirsch, P., Meyer-Lindenberg, A. State-dependent cross-brain information flow in Borderline Personality Disorder. **JAMA Psychiatry**; 74(9), 949-957, 2017.
- Bilek, E.\*, Ruf, M.\*, Schafer, A., Akdeniz, C., Calhoun, V.D., Schmahl, C., Demanuele, C., Tost, H., Kirsch, P.\*, Meyer-Lindenberg, A.\* Information flow between interacting human brains: Identification, validation, and relationship to social expertise. **Proceedings of the National Academy of Sciences**; 112(16), 5207-5212, 2015.

Bilek, E.\*, Schäfer, A.\* , Ochs, E., Esslinger, C., Zangl, M., Plichta, M.M., Braun, U., Kirsch, P., Schulze, T.G., Rietschel, M., Meyer-Lindenberg, A., Tost, H. Application of high-frequency repetitive transcranial magnetic stimulation to the DLPFC alters human prefrontal-hippocampal functional interaction. **Journal of Neuroscience**; 33(16), 7050-7056, 2013.

\* Equally contributing authors

**B) other publications:** -

**C) Patents:** -