

Belinda Fleischmann

PhD candidate

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Education

Post- and Undergraduate education

- 03/2022 – present **PhD candidate**, Otto-von-Guericke Universität Magdeburg, Germany.
The main focus of my research will be to investigate cognitive and neural mechanisms of uncertainty-guided decision making in search tasks | Advisor: Prof. D. Ostwald
- 10/2018 – 02/2022 **M.Sc. in Social, Cognitive and Affective Neuroscience**,
Freie Universität Berlin, Germany.
Grade: 1.2 | Thesis: "*Belief state-based decision making under uncertainty in a spatial search task*" (1.0) | Advisor: Prof. D. Ostwald
- 10/2015 – 09/2018 **B.Sc. in Psychology**, University of Ulm, Germany.
Grade: 1.4 | Thesis: "*Performance of AIC and BIC in the Selection of Structural Equation Models*" (1.0) | Advisor: Prof. M. Moshagen
- 10/2011 – 11/2014 **B.Sc. in Technology and Management**, Technical University Munich, Germany.
Grade: 2.1 | Thesis: "*Personality Traits of Innovators*" (1.0) | Advisor: Dr. S. Asmus
- 09/2003 – 07/2011 **High School Diploma (Abitur)**, Pater-Rupert-Mayer-Gymnasium, Pullach, Germany.
Grade: 1.5

Specialized training and educational courses

- 02/2020 **Winter school on "Ethics and Neuroscience"**, Bernstein Center for Computational Neuroscience and Berlin School of Mind and Brain, Berlin, Germany.
5-days winter school on ethical and societal consequences of modern neuroscience
- 11/2019 **Symposium "Doing Good - Scientific Practice under Review"**, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.
2-days symposium on good scientific practices and open science

Research and Practical Experience

- 03/2021 – present **Doctoral researcher**, Otto-von-Guericke-Universität, Magdeburg, Germany.
Department of Methods of Experimental and Neuroscientific Psychology (PI: Prof. D. Ostwald)
Tasks: Research in Computational Cognitive Neuroscience and teaching in Methods of Experimental and Neuroscientific Psychology (4 semester hours per week)
- 11/2021 – 02/2022 **Research assistant**, Max Planck Institute for Human Development, Berlin, Germany.
Lifespan Neural Dynamics Group (PI: Dr. D. Garrett)
Tasks: Analysed behavioral data, tested and documented scripts to run an experiment involving a perceptual decision making task, transcranial random noise stimulation and EEG recording
- 14/2019 – 10/2021 **Research assistant**, Max Planck Institute for Human Development, Berlin, Germany.
Research Group Plasticity in Children and Adults (PIs: Dr. Y. Fandakova, Dr. E. Wenger)
Tasks: Carried out various behavioral and fMRI studies with different age groups, preprocessed fMRI data and performed univariate (GLMs) and multivariate analyses (e.g. SVM)

- 10/2019 – 02/2020 **Research intern**, Technical University Berlin, Germany.
 Research Group Neural Information Processing (PI: Prof. K.Obermayer)
 Tasks: Reviewed research on decision making using Reinforcement Learning (RL) models and the Markov Decision Process framework, applied RL models to simulated data
- 09/2017 – 02/2018 **Clinical intern**, Medical Practice *Libal* for Child and Adolescent Psychiatry and Psychotherapy, Ulm, Germany, (Supervisor: Dr.med. E. Libal).
 Tasks: Carried out psychological examinations (e.g. IQ, dyslexia, ADHD, autism spectrum) in children and adolescents and wrote the reports
- 09/2016 – 08/2017 **Research assistant**, University Hospital for Child and Adolescent Psychiatry and Psychotherapy, Ulm, Germany.
 Department for Psychotherapy Research (PI: Prof. L. Goldbeck)
 Tasks: Carried out psychological examinations (e.g. depressive and PTSD symptoms), collected and analyzed data for a study on the effectiveness of a trauma-focused group intervention for unaccompanied young refugees
- 12/2013 – 05/2014 **Research assistant**, Technical University, Munich, Germany.
 Chair of Corporate Management, Head: Prof. A. Mohnen
 Tasks: Reviewed research on the impact of incentives to promote creativity and innovations

Publications

- 2017 Hirschmiller, J., **Fleischmann, B.**, Pfeiffer, E., & Goldbeck, L. (2017). Das Projekt "Mein Weg": Traumafokussierte Gruppenintervention für junge Flüchtlinge in der Jugendhilfe [The project "My Way": Trauma-Focused Group Intervention for Refugee Minors in Youth Welfare]. *Das Jugendamt*, 12, 585-588.

Extracurricular activities

- 10/2014 – 04/2016 **Volunteer**, Enactus Munich e.V., Munich, Germany.
 Worked on community impact projects with social entrepreneurial approaches
- 10/2014 – 09/2015 **Volunteer**, Caritas ALVENI, Munich, Germany.
 Provided tutoring in math and physics to high school students

Skills

- Coding** Python, R, MATLAB, Bash
- Development** Git (GitHub, GitLab), high-performance computing (Slurm, Torque), software containers (Docker, Singularity)
- Data Analysis** nipy, nilearn, scikit-learn, SPM12, FSL, fMRIprep, MRIQC, BIDS, Structural equation modelling, Agent-based modelling, Bayesian Inference
- Methods** functional and structural magnetic resonance imaging, behavioral experiments, online studies (Pavlovia), cognitive/psychological examinations (WISC)
- Task Design** PsychoPy, Psychtoolbox
- Writing** L^AT_EX, Markdown, MS Office

Languages

- German** native
- Mandarin** native in speaking
- English** fluent, IELTS: 7.5
- French** basics