

## Résumé: Dr. Matthias Mittner (born Ihrke)

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### CONTACT INFORMATION

Matthias Mittner (born Ihrke)

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Norway

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E-mail: [matthias.mittner@uit.no](mailto:matthias.mittner@uit.no)  
Web: <http://ihrke.github.io/>



### PERSONAL INFORMATION

Date of birth: September 1, 1982  
Place of birth: Eberswalde, Germany  
Nationality: german  
Marital Status: Married to Lilli Mittner  
Children: Kuno, Josefine & Klara Mittner

### EDUCATION

*Dr. phil. (summa cum laude)* 21.12.2011  
University of Frankfurt, Germany  
Thesis: “Binding and Retrieval of Stimulus-Response Episodes in the  
Negative Priming Paradigm”

*B. Sc. in Computer Science* 2005/07 – 2008/04  
Institute of Computer Science, University of Göttingen, Germany  
Thesis: “Single Trial Estimation and Timewarped Averaging of Event-  
Related Potentials”

*Diploma in Psychology* 2005/07 – 2007/11  
Department of Psychology, University of Göttingen, Germany  
Thesis: “Negative Priming and Response-Relation: Behavioural and  
Electroencephalographic Correlates”

*Student at the University of Oslo* 2004/08 – 2005/06  
Oslo, Norway  
Erasmus-Scholarship; studies of computer science and psychology

*B. Sc. in Psychology (equivalent)* 2002/09 – 2004/07  
Department of Psychology, University of Göttingen, Germany  
Thesis: “An Adaptive Approach to Memory-Span Tasks”

*High-School Diploma* 2002/06  
Alexander von Humboldt Gymnasium, Eberswalde, Germany  
main subjects physics and mathematics

### EMPLOYMENTS

*Professor II* 2021/03 – present  
Department of Psychology, Norwegian University of Science and Technology, Trondheim, Norway

*Professor* 2020/09 – present  
Institute of Psychology, University of Tromsø, Tromsø, Norway  
Cognitive Neuroscience

<p><i>Associate Professor</i>  Institute of Psychology, University of Tromsø, Tromsø, Norway  Cognitive Neuroscience</p>	<p>2014/04 – 2020/09</p>
<p><i>Post-Doctoral Researcher</i>  Cognitive Science Center Amsterdam, Universiteit van Amsterdam, The Netherlands  Cognitive Neuroscience (Birte Forstmann)</p>	<p>2013/04 – 03/2014</p>
<p><i>Post-Doctoral Researcher</i>  Max-Planck Institute for Experimental Medicine, Göttingen, Germany  Theoretical Neuroscience (Robert Gütig)</p>	<p>2012/09 – 2013/03</p>
<p><i>PhD-Student</i>  Max-Planck Institute for Dynamics and Self-Organization, Göttingen, Germany  Göttingen Graduate School for Neurosciences and Molecular Biosciences (GGNB)  Doctoral Program: Theoretical and Computational Neuroscience (PTCN)</p>	<p>2008/10 – 2012/01</p>
<p><i>Guest Researcher</i>  Max-Planck Institute for Dynamics and Self-Organization, Göttingen, Germany  cognitive modelling and data-mining (EEG)</p>	<p>2008/03 – 2008/09</p>
<p><i>Guest Researcher</i>  Max-Planck Institute for Informatics, Saarbrücken, Germany  section for computer graphics; optical modelling and psychophysics</p>	<p>2007/11 – 2008/02</p>
<p><i>Research Assistant</i>  Bernstein Center for Computational Neuroscience, Göttingen, Germany  cognitive modelling; psychophysical experiments</p>	<p>2005/09 – 2007/10</p>
<p><i>Student Assistant</i>  Departement for Developmental Psychology, University of Göttingen, Germany  computer administration and development of experimental software</p>	<p>2003/09 – 2004/08</p>

SCIENTIFIC  
ACTIVITIES

*Leadership*  
Head of research, Institute for Psychology, University of Tromsø (Jan 2022–)  
<http://www.uit.no/enhet/ips>  
Leader of research group “Cognitive Neuroscience” at the Institute for psychology, University of Tromsø (2018–)  
<http://www.uit.no/research/cognitive-neuroscience>

*Professional Memberships*  
Member of the Norwegian Neuroscience Society (NNS)  
Member of the Society for Neuroscience  
Program Committee Member “International Conference on Intelligent Data Engineering and Automated Learning” 2010 and 2011  
Member of the Research Priority Program Brain and Cognition at the Cognitive Science Center Amsterdam (CSCA)  
Review Editor for “Frontiers in Psychology”

*PhD Evaluation/Opponencies*

Committee leader for PhD defence of Patty Huijgens (2021)  
Pre-examiner for thesis of Aaron Kortteenniemi (University of Helsinki, 2020)  
Opponent for thesis of Alexandra Vik (University of Bergen, 2019)  
Committee leader for PhD defence of Bjørn Eivind Kirsebom (2019)  
Committee leader for PhD defence of Sara Vambheim (2018)

#### *Committee*

Selection committee for Associate professor in quantitative methods (NTNU, 2022)  
Evaluation committee for evaluation of qualification for professorship (Eelke Snoeren, UiT, 2022)  
Head of the Research Ethics Committee at the Institute for Psychology (IPS-REC, UiT, 2022–)  
Head of committee IPS Research forum (UiT, 2022–)  
Member of faculty-level PhD committee ("PhD opptakskomite"; Helsefak, UiT, 2022 –)  
Head of selection committee for Associate professor in cognitive neuroscience (UiB, 2021)  
Selection committee for PhD position (NTNU, 2021)  
Evaluation committee for several PhD and post-doc positions (IPS/UiT)  
Member of committee "Research forum at the faculty of health" (UiT, 2020–)  
Committee for selection of research price (IPS/UiT, 2020)  
Committee for selection of student price for best thesis (clinical program, 2018–)  
Committee development of evaluation strategy at IPS (UiT, 2018–2020)  
Vararepresentant programstyret psykologi (IPS/UiT; 2017–)  
Member of "Master committee" (responsible for master studies at IPS/UiT; 2015–2016)  
Member of program committee for IDEAL conference (2010/2011)

#### *Advisor/Grant reviewing*

European Research council (reviewer for ERC Consolidator Grant, ECoG)  
The French National Centre for Scientific Research (CNRS) - ATIP - Avenir program  
Netherlands Organisation for Scientific Research (NWO) - Vici Social Sciences and Humanities  
Hertie Foundation Project: Improvement of school education by neuroscientific research

#### *Organizing*

Symposium: "Building bridges: Mapping the multifaceted architecture of the wandering mind" at the International conference of cognitive neuroscience (ICON2022), Helsinki, Finland (with Josephine Groot)  
Organizer for Methods-course "Introduction to Python programming" (2012)  
Organizer for Methods-course "Matlab and Python programming" (2011)

#### *Conferences*

Invited presentations:

- NRSN National Neuroscience Symposium, 2021
- fMRI 20-year Anniversary Seminar (NTNU, Trondheim, Norway), 2019
- The Role of Neural Oscillations in Human Cognition (Summer School, Uslar, Germany), 2017
- Mind-Wandering Symposium, (University of Amsterdam, The Netherlands), 2016
- 12th International Conference on Cognitive Neuroscience, Brisbane, Australia (ICON), 2014
- Various talks and posters at national and international conferences (CNS 06/07, BCCN symposia, TeaP, ICP2008, IDEAL, IJMC, NWG, SfN, MathPsych, ICON2014, ICON2017, ICON2022)

#### *Advanced Courses*

Research group leader development program at UiT (2021/2022)  
Program for young research leaders 2014–2015; joint program UiO, UiB, NTNU, UiT – leadership, networking, financing, communication, strategy  
DGPs Course on Recording and Analysis of Eye-Movements (Niels Galley), Cologne 2008  
Course on Computational Neuroscience at the Max-Planck-Institute for Dynamics and Self-Organization 2005

### Reviewing

Editorial board member "NeuroImage: Reports"

Reviewer for Spring Conference on Computer Graphics 2008 (SCCG08)

Ad-hoc Reviewer for Cognitive Neuropsychology, NeuroImage, Journal of Cognitive Neuroscience,

Social Cognitive & Affective Neuroscience, Frontiers in Psychology

IDEAL 2010/2011 (PC-member)

### PUBLICATIONS

#### Books

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Mehmetoglu, M. & Mittner, M. (2020). *Innføring i R for statistiske dataanalyser*. Universitetsforlaget. (<https://tinyurl.com/wx4xbfpc>)

Mehmetoglu, M. & Mittner, M. (2021). *Applied Statistics Using R*. SAGE. (<https://tinyurl.com/svddmm>)

#### Pre-prints (unpublished)

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- (58) Sedlinská, T., Bolte, L., Melsæter, E., Mittner, M. & Csifcsák, G. (2022). Transcranial direct-current stimulation enhances Pavlovian tendencies during intermittent loss of control. <https://psyarxiv.com/9v5sy/>. status: submitted
- (57) Groot, J., Miletic, S., Isherwood, S., Tse, D., Habli, S., Håberg, A., Forstmann, B., Bazin, P. & Mittner, M. (2022). Echoes from intrinsic connectivity networks in the subcortex. <https://psyarxiv.com/xr25q/>. status: submitted
- (56) Kreis, I., Zhang, L., Mittner, M., Sylva, L., Lamm, C. & Pfuhl, G. (2020). Aberrant uncertainty processing is linked to psychotic-like experiences, autistic traits and reflected in pupil dilation during probabilistic learning. <https://osf.io/nc2rx/>. status: unknown

#### Journal Articles

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- (55) Nawani, H., Mittner, M. & Csifcsák, G. (2023). Modulation of Mind Wandering Using Transcranial Direct Current Stimulation: A Meta-Analysis Based on Electric Field Modeling. *NeuroImage*. , pp. 120051. doi:10.1016/j.neuroimage.2023.120051.  
IF: 5.4, citations: 0, field-citation-ratio: 0
- (54) Alexandersen, A., Csifcsák, G., Groot, J. & Mittner, M. (2022). The Effect of Transcranial Direct Current Stimulation on the Interplay between Executive Control, Behavioral Variability and Mind Wandering: A Registered Report. *Neuroimage: Reports*. 2:3, pp. 100109. doi:10.1016/j.ynirp.2022.100109.  
IF: NA, citations: 0, field-citation-ratio: 0
- (53) Groot, J., Csifcsák, G., Wientjes, S., Forstmann, B. & Mittner, M. (2022). Catching Wandering Minds with Tapping Fingers: Neural and Behavioral Insights into Task-unrelated Cognition. *Cerebral Cortex*. , pp. bhab494. doi:10.1093/cercor/bhab494.  
IF: 6.3, citations: 1, field-citation-ratio: 0
- (52) Hawkins, G., Mittner, M., Forstmann, B. & Heathcote, A. (2022). Self-Reported Mind Wandering Reflects Executive Control and Selective Attention. *Psychonomic Bulletin & Review*. . doi:10.3758/s13423-022-02110-3.  
IF: 3.1, citations: 1, field-citation-ratio: 0
- (51) Kam, J., Mittner, M. & Knight, R. (2022). Mind-Wandering: Mechanistic Insights from Lesion, tDCS, and iEEG. *Trends in Cognitive Sciences*. 0:0. doi:10.1016/j.tics.2021.12.005.  
IF: 15.6, citations: 5, field-citation-ratio: 0
- (50) Csifcsák, G., Bjørkøy, J., Kuyateh, S., Reithe, H. & Mittner, M. (2021). Transcranial Direct Current Stimulation above the Medial Prefrontal Cortex Facilitates Decision-Making Following Periods of Low Outcome Controllability. *eNeuro*. . doi:10.1523/ENEURO.0041-21.2021.  
IF: 32.6, citations: , field-citation-ratio:

- (49) Groot, J., Boayue, N., Csifcsák, G., Boekel, W., Huster, R., Forstmann, B. & Mittner, M. (2021). Probing the Neural Signature of Mind Wandering with Simultaneous fMRI-EEG and Pupillometry. *NeuroImage*. 224, pp. 117412. doi:10.1016/j.neuroimage.2020.117412.  
IF: 5.4, citations: 46, field-citation-ratio: 0
- (48) Kreis, I., Biegler, R., Tjelmeland, H., Mittner, M., Reitan, S. & Pfuhl, G. (2021). Overestimation of Volatility in Schizophrenia and Autism? A Comparative Study Using a Probabilistic Reasoning Task. *PLOS ONE*. 16:1, pp. e0244975. doi:10.1371/journal.pone.0244975.  
IF: 2.8, citations: 4, field-citation-ratio: 2.56
- (47) Rasmussen, I., Boayue, N., Mittner, M., Bystad, M., Grønli, O., Vangberg, T., Csifcsák, G. & Aslaksen, P. (2021). High-Definition Transcranial Direct Current Stimulation Improves Delayed Memory in Alzheimer’s Disease Patients: A Pilot Study Using Computational Modeling to Optimize Electrode Position. *Journal of Alzheimer’s Disease*. 83:2. doi:10.3233/JAD-210378.  
IF: 3.5, citations: , field-citation-ratio:
- (46) Turi, Z., Lenz, M., Paulus, W., Mittner, M. & Vlachos, A. (2021). Selecting Stimulation Intensity in Repetitive Transcranial Magnetic Stimulation Studies: A Systematic Review between 1991 and 2020. *European Journal of Neuroscience*. n/a:n/a. doi:10.1111/ejn.15195.  
IF: 2.8, citations: 20, field-citation-ratio: 13.12
- (45) Zmeykina, E., Mittner, M., Paulus, W. & Turi, Z. (2021). Short-Lived Alpha Power Suppression Induced by Low-intensity Arrhythmic rTMS. *Neuroscience*. 466, pp. 1–9. doi:10.1016/j.neuroscience.2021.04.027.  
IF: 3.4, citations: 1, field-citation-ratio: 0.66
- (44) Boayue, N., Csifcsák, G., Kreis, I., Schmidt, C., Finn, I., Vollsund, A. & Mittner, M. (2020). The Interplay between Executive Control, Behavioral Variability and Mind Wandering: Insights from a High-Definition Transcranial Direct-Current Stimulation Study. *European Journal of Neuroscience*. n/a:n/a. doi:10.1111/ejn.15049.  
IF: 2.8, citations: 8, field-citation-ratio: 2.81
- (43) Mittner, M. (2020). Pypillometry: A Python Package for Pupillometric Analyses. *Journal of Open Source Software*. 5:51, pp. 2348. doi:10.21105/joss.02348.  
IF: NA, citations: 7, field-citation-ratio: 0
- (42) Turi, Z., Mittner, M., Lehr, A., Bürger, H., Antal, A. & Paulus, W. (2020). Theta-Gamma Cross-Frequency Transcranial Alternating Current Stimulation over the Trough Impairs Cognitive Control. *eNeuro*. . doi:10.1523/ENEURO.0126-20.2020.  
IF: 32.6, citations: , field-citation-ratio:
- (41) Zmeykina, E., Mittner, M., Paulus, W. & Turi, Z. (2020). Weak rTMS-induced Electric Fields Produce Neural Entrainment in Humans. *Scientific Reports*. 10:1, pp. 11994. doi:10.1038/s41598-020-68687-8.  
IF: 4.1, citations: 31, field-citation-ratio: 7.41
- (40) Boayue, N., Csifcsák, G., Aslaksen, P., Turi, Z., Antal, A., Groot, J., Hawkins, G., Forstmann, B., Opitz, A., Thielscher, A. & Mittner, M. (2019). Increasing Propensity to Mind-Wander by Transcranial Direct Current Stimulation? A Registered Report. *The European Journal of Neuroscience*. . doi:10.1111/ejn.14347.  
IF: NA, citations: 33, field-citation-ratio: 10.51
- (39) Csifcsák, G., Boayue, N., Aslaksen, P., Turi, Z., Antal, A., Groot, J., Hawkins, G., Forstmann, B., Opitz, A., Thielscher, A. & Mittner, M. (2019). Commentary: “Transcranial Stimulation of the Frontal Lobes Increases Propensity of Mind-Wandering without Changing Meta-Awareness”. *Frontiers in Psychology*. 10. doi:10.3389/fpsyg.2019.00130.  
IF: 2.1, citations: 5, field-citation-ratio: 0
- (38) Csifcsák, G., Melsæter, E. & Mittner, M. (2019). Intermittent Absence of Control during Reinforcement Learning Interferes with Pavlovian Bias in Action Selection. *Journal of Cognitive Neuroscience*. , pp. 1–18. doi:10.1162/jocn\_a\_01515.  
IF: 3.5, citations: 11, field-citation-ratio: 4.42

- (37) Hawkins, G., *Mittner, M.*, Forstmann, B. & Heathcote, A. (2019). Modeling Distracted Performance. *Cognitive Psychology*. 112, pp. 48–80. doi:10.1016/j.cogpsych.2019.05.002.  
IF: 3.1, citations: 13, field-citation-ratio: 3.8
- (36) Hetland, A., Kjelstrup, E., *Mittner, M.* & Vittersø, J. (2019). The Thrill of Speedy Descents: A Pilot Study on Differences in Facially Expressed Online Emotions and Retrospective Measures of Emotions During a Downhill Mountain-Bike Descent. *Frontiers in Psychology*. 10. doi:10.3389/fpsyg.2019.00566.  
IF: 2.1, citations: 16, field-citation-ratio: 0
- (35) Turi, Z., Csifcsák, G., Boayue, N., Aslaksen, P., Antal, A., Paulus, W., Groot, J., Hawkins, G., Forstmann, B., Opitz, A., Thielscher, A. & *Mittner, M.* (2019). Blinding Is Compromised for Transcranial Direct Current Stimulation at 1 mA for 20 Min in Young Healthy Adults. *European Journal of Neuroscience*. 0:0. doi:10.1111/ejn.14403.  
IF: 2.8, citations: 69, field-citation-ratio: 21.97
- (34) Boayue, N., Csifcsák, G., Puonti, O., Thielscher, A. & *Mittner, M.* (2018). Head Models of Healthy and Depressed Adults for Simulating the Electric Fields of Non-Invasive Electric Brain Stimulation. *F1000Research*. 7, pp. 704. doi:10.12688/f1000research.15125.2.  
IF: NA, citations: 15, field-citation-ratio: 3.97
- (33) Csifcsák, G., Boayue, N., Puonti, O., Thielscher, A. & *Mittner, M.* (2018). Effects of Transcranial Direct Current Stimulation for Treating Depression: A Modeling Study. *Journal of Affective Disorders*. 234, pp. 164–173. doi:10.1016/j.jad.2018.02.077.  
IF: 3.8, citations: 53, field-citation-ratio: 13.78
- (32) Hetland, A., Vittersø, J., Wie, S., Kjelstrup, E., *Mittner, M.* & Dahl, T. (2018). Skiing and Thinking About It: Moment-to-Moment and Retrospective Analysis of Emotions in an Extreme Sport. *Frontiers in Psychology*. 9:971. doi:10.3389/fpsyg.2018.00971.  
IF: 2.1, citations: 28, field-citation-ratio: 0
- (31) Turi, Z., Schäfer, S., Antal, A., Paulus, W. & *Mittner, M.* (2018). Data from ‘Placebo Enhances Reward Learning in Healthy Individuals’. *Journal of Open Psychology Data*. 6:1, pp. 2. doi:10.5334/jopd.34.  
IF: NA, citations: 1, field-citation-ratio: 0.2
- (30) Turi, Z., Bjørkedal, E., Gunkel, L., Antal, A., Paulus, W. & *Mittner, M.* (2018). Evidence for Cognitive Placebo and Nocebo Effects in Healthy Individuals. *Scientific Reports*. 8:1, pp. 17443. doi:10.1038/s41598-018-35124-w.  
IF: 4.1, citations: 30, field-citation-ratio: 6.02
- (29) Csifcsák, G. & *Mittner, M.* (2017). Linking Brain Networks and Behavioral Variability to Different Types of Mind-Wandering. *Proceedings of the National Academy of Sciences of the United States of America*. 114:30. doi:10.1073/pnas.1705108114.  
IF: 9.5, citations: 3, field-citation-ratio: 0
- (28) Hawkins, G., *Mittner, M.*, Forstmann, B. & Heathcote, A. (2017). On the Efficiency of Neurally-Informed Cognitive Models to Identify Latent Cognitive States. *Journal of Mathematical Psychology*. 76, pp. 142–155. doi:10.1016/j.jmp.2016.06.007.  
IF: 2.2, citations: 19, field-citation-ratio: 3.84
- (27) Turi, Z., *Mittner, M.*, Paulus, W. & Antal, A. (2017). Placebo Intervention Enhances Reward Learning in Healthy Individuals. *Scientific Reports*. 7, pp. 41028. doi:10.1038/srep41028.  
IF: 4.1, citations: 19, field-citation-ratio: 3.84
- (26) *Mittner, M.*, Hawkins, G., Boekel, W. & Forstmann, B. (2016). A Neural Model of Mind Wandering. *Trends in Cognitive Sciences*. 20:8, pp. 570–578. doi:10.1016/j.tics.2016.06.004.  
IF: 15.6, citations: 108, field-citation-ratio: 17.11
- (25) Rodríguez-Aranda, C., *Mittner, M.* & Vasylenko, O. (2016). Association Between Executive Functions, Working Memory, and Manual Dexterity in Young and Healthy Older Adults: An Exploratory

- Study. *Perceptual and Motor Skills*. 122:1, pp. 165–192. doi:10.1177/0031512516628370.  
IF: 0.7, citations: 18, field-citation-ratio: 3.09
- (24) Hawkins, G., Mittner, M., Boekel, W., Heathcote, A. & Forstmann, B. (2015). Toward a Model-Based Cognitive Neuroscience of Mind Wandering. *Neuroscience*. 310, pp. 290–305. doi:10.1016/j.neuroscience.2015.09.053.  
IF: 3.4, citations: 25, field-citation-ratio: 3.62
- (23) Høifødt, R., Mittner, M., Lillevoll, K., Katla, S., Kolstrup, N., Eisemann, M., Friberg, O. & Waterloo, K. (2015). Predictors of Response to Web-Based Cognitive Behavioral Therapy With High-Intensity Face-to-Face Therapist Guidance for Depression: A Bayesian Analysis. *Journal of Medical Internet Research*. 17:9, pp. e197. doi:10.2196/jmir.4351.  
IF: 4.7, citations: 27, field-citation-ratio: 6.45
- (22) Turi, Z., Mittner, M., Opitz, A., Popkes, M., Paulus, W. & Antal, A. (2015). Transcranial Direct Current Stimulation over the Left Prefrontal Cortex Increases Randomness of Choice in Instrumental Learning. *Cortex*. 63, pp. 145–154. doi:10.1016/j.cortex.2014.08.026.  
IF: 4.9, citations: 16, field-citation-ratio: 2.18
- (21) Mittner, M., Behrendt, J., Menge, U., Titz, C. & Hasselhorn, M. (2014). Response-Retrieval in Identity Negative Priming Is Modulated by Temporal Discriminability. *Frontiers in Psychology*. 5, pp. 621. doi:10.3389/fpsyg.2014.00621.  
IF: 2.1, citations: 1, field-citation-ratio: 0.12
- (20) Mittner, M., Boekel, W., Tucker, A., Turner, B., Heathcote, A. & Forstmann, B. (2014). When the Brain Takes a Break: A Model-Based Analysis of Mind Wandering. *Journal of Neuroscience*. 34:49, pp. 16286–16295. doi:10.1523/JNEUROSCI.2062-14.2014.  
IF: 6.0, citations: , field-citation-ratio:
- (19) Ihrke, M., Behrendt, J., Schrobsdorff, H., Visser, I. & Hasselhorn, M. (2013). Negative Priming Persists in the Absence of Response-Retrieval. *Experimental Psychology*. 60:1, pp. 12–21. doi:10.1027/1618-3169/a000169.  
IF: 1.2, citations: 4, field-citation-ratio: 0.48
- (18) Mittner, M. (2013). Functional Integration of Large-Scale Brain Networks. *Journal of Neuroscience*. 33:48, pp. 18710–18711. doi:10.1523/JNEUROSCI.4084-13.2013.  
IF: 6.0, citations: , field-citation-ratio:
- (17) Schrobsdorff, H., Ihrke, M., Behrendt, J., Herrmann, J. & Hasselhorn, M. (2012). Identity Negative Priming: A Phenomenon of Perception, Recognition or Selection?. *PloS One*. 7:3, pp. e32946. doi:10.1371/journal.pone.0032946.  
IF: 2.8, citations: 7, field-citation-ratio: 0.81
- (16) Schrobsdorff, H., Ihrke, M., Behrendt, J., Hasselhorn, M. & Herrmann, J. (2012). Inhibition in the Dynamics of Selective Attention: An Integrative Model for Negative Priming. *Frontiers in Psychology*. 3, pp. 491. doi:10.3389/fpsyg.2012.00491.  
IF: 2.1, citations: 9, field-citation-ratio: 1.04
- (15) Ihrke, M. & Behrendt, J. (2011). Automatic Generation of Randomized Trial Sequences for Priming Experiments. *Frontiers in Psychology*. 2, pp. 225. doi:10.3389/fpsyg.2011.00225.  
IF: 2.1, citations: 7, field-citation-ratio: 0
- (14) Ihrke, M., Schrobsdorff, H. & Herrmann, J. (2011). Recurrence-Based Estimation of Time-Distortion Functions for ERP Waveform Reconstruction. *International Journal of Neural Systems*. 21:1, pp. 65–78. doi:10.1142/S0129065711002651.  
IF: 4.6, citations: , field-citation-ratio:
- (13) Ihrke, M., Behrendt, J., Schrobsdorff, H., Herrmann, J. & Hasselhorn, M. (2011). Response-Retrieval and Negative Priming: Encoding- and Retrieval-Specific Effects.. *Experimental Psychology*. 58:2, pp. 154–161. doi:10.1027/1618-3169/a000081.  
IF: 1.2, citations: 26, field-citation-ratio: 2.89

- (12) *Ihrke, M. & Brennen, T. (2011). Sharing One Biographical Detail Elicits Priming between Famous Names: Empirical and Computational Approaches. *Frontiers in Psychology*. 2:75. doi:10.3389/fpsyg.2011.00075.*  
IF: 2.1, citations: 0, field-citation-ratio: 0
- (11) Behrendt, J., Gibbons, H., Schrobsdorff, H., *Ihrke, M.*, Herrmann, J. & Hasselhorn, M. (2010). Event-Related Brain Potential Correlates of Identity Negative Priming from Overlapping Pictures. *Psychophysiology*. 47:5, pp. 921–930. doi:10.1111/j.1469-8986.2010.00989.x.  
IF: 3.1, citations: 12, field-citation-ratio: 1.28
- (10) Ritschel, T., *Ihrke, M.*, Frisvad, J., Coppens, J., Myszkowski, K. & Seidel, H. (2009). Temporal Glare: Real-Time Dynamic Simulation of the Scattering in the Human Eye. *Computer Graphics Forum*. 28:2, pp. 183–192. doi:10.1111/j.1467-8659.2009.01357.x.  
IF: 2.0, citations: 38, field-citation-ratio: 8.51
- (9) Ritschel, T., Smith, K., *Ihrke, M.*, Grosch, T., Myszkowski, K. & Seidel, H. (2008). 3D Unsharp Masking for Scene Coherent Enhancement. *ACM Transactions on Graphics*. 27:3, pp. 90:1–90:8. doi:10.1145/1399504.1360689.  
IF: 4.4, citations: 10, field-citation-ratio: 2.04
- (8) Schrobsdorff, H., *Ihrke, M.*, Kabisch, B., Behrendt, J., Hasselhorn, M. & Herrmann, J. (2007). A Computational Approach to Negative Priming. *Connection Science*. 19:3, pp. 203–221. doi:10.1080/09540090701507823.  
IF: 0.9, citations: 16, field-citation-ratio: 0

#### *Book Chapters*

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- (7) Csifcsák, G., Forstmann, B. & *Mittner, M.* (2021). Transcranial stimulation and decision-making. In Wassermann, E., Peterchev, A., Ziemann, U., Lisanby, S., Siebner, H. & Walsh, V. (Eds.), *The Oxford Handbook of Transcranial Stimulation*. . doi:.  
citations: 0, field-citation-ratio: 0
- (6) *Ihrke, M.*, Schrobsdorff, H. & Herrmann, J. (2009). Denoising and Averaging Techniques for Electrophysiological Data. In Velazquez, J. & Wennberg, R. (Eds.), *Coordinated Activity in the Brain: Measurements and Relevance to Brain Function and Behavior*. Springer New York. doi:10.1007/978-0-387-93797-7\_9.  
citations: 7, field-citation-ratio: 1.5

#### *Peer-Reviewed Conference Proceedings*

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- (5) Schrobsdorff, H., *Ihrke, M.* & Herrmann, J. (2013). Modeling Structure and Dynamics of Selective Attention. *Advances in Intelligent Systems and Computing*, Biologically Inspired Cognitive Architectures 2012, pp. 287–295. doi:10.1007/978-3-642-34274-5\_50.  
citations: 0, field-citation-ratio: 0
- (4) *Ihrke, M.*, Ritschel, T., Smith, K., Grosch, T., Myszkowski, K. & Seidel, H. (2009). A perceptual evaluation of 3D unsharp masking. , Human Vision and Electronic Imaging XIV, pp. 72400R. doi:10.1117/12.809026.  
citations: 5, field-citation-ratio: 1.52
- (3) *Ihrke, M.*, Schrobsdorff, H. & Herrmann, J. (2009). Recurrence-Based Synchronization of Single Trials for EEG-Data Analysis. *Lecture Notes in Computer Science*, Intelligent Data Engineering and Automated Learning - IDEAL 2009, pp. 118–125. doi:10.1007/978-3-642-04394-9\_15.  
citations: 1, field-citation-ratio: 0
- (2) *Ihrke, M.*, Schrobsdorff, H. & Herrmann, J. (2008). Compensation for Speed-of-Processing Effects in EEG-Data Analysis. *Lecture Notes in Computer Science*, Intelligent Data Engineering and Automated Learning – IDEAL 2008, pp. 354–361. doi:10.1007/978-3-540-88906-9\_45.  
citations: 2, field-citation-ratio: 0.46



- (1) Yoshida, A., *Ihrke, M.*, Mantiuk, R. & Seidel, H. (2008). Brightness of the Glare Illusion. *APGV '08*, Proceedings of the 5th Symposium on Applied Perception in Graphics and Visualization, pp. 83–90. doi:10.1145/1394281.1394297.  
citations: 21, field-citation-ratio: 4.28

## TEACHING

*Lectures and supervision* (University of Tromsø)

from 2014

Undergraduate Level

- Methods and Statistics III (PSY-1513)
- Methods and Statistics I (PSY-1511)
- Open Science (PSY-2901)
- Cognitive Neuroscience (PSY-2547, PSY-2553)
- Affective Neuroscience (PSY-2549)
- Biological Psychology (PSY-1004)
- Psychometrics (PSY-1504)
- Practical Course: Gerontopsychology (PSY-2543)
- Research Practical (PSY-1509/1510)
- Research skills for Master students (PSY-3900)
- Research communication (PSY-1702)

PhD Courses

- Quantitative Research Methods (HEL-8024)
- Applied Linear Regression (HEL-8030)
- Research Design and Statistics (PSY-8002)
- Quantitative Method in Clinical Health Research (HEL-8017)
- Informal reading club for PhD students and faculty: Bayesian statistics

*Lectures and supervision* (NTNU, Norwegian University of Science and Technology)

from 2021

PhD courses

- Multivariate quantitative research methods (PSY8003)

Undergraduate Level

- Research Methods (PSY3100)
- Statistics and quantitative research methods (PSY2017)
- Research Design (PSY2022)

*Introduction to Neuroscientific Methods and Brain Anatomy*

summer 2013

Master-level course (University of Amsterdam)

lecture and practical on electroencephalography

*Linear Regression* (PSY-8012)

from spring 2015

PhD course (10 credit points)

*Introduction to Python Programming (A123)*

winter term, 2011/2012

GGNB methods course (introductory level), University of Göttingen

*Gestaltung von Lehr-Lernprozessen*

summer term, 2010

Introductory seminar to the psychology of learning and teaching for students pursuing teaching certification; University of Göttingen

SUPERVISION

*Post-Doc supervision* \_\_\_\_\_

Gábor Csifcsák (2016–2019)	“Optimizing transcranial direct current stimulation for treatment of chronic pain and depression” (HelseNord, PFP1237_15)
Hema Nawani (2020–)	“ADHD and mind-wandering” (co-supervisor, main supervisor: Gábor Csifcsák)

*PhD students* \_\_\_\_\_

Maren Angel Christensen (2022–)	“Structural differences in brain structure after trauma: An analysis based on the HUNT study and the Tromsø Study” (co-supervisor: Mehmet Mehmetoglu)
Josephine Groot (2018–)	“Neural mechanisms of off-focus cognition” (co-supervisor: Birte Forstmann)
Nya Mehnwolo Boayue (2016–2020)	“Neural and computational correlates of mind wandering” (co-supervisor: Gábor Csifcsák)
Malin Gullsvåg (2020–)	“The relation between respiratory mechanisms and cognitive abilities in adolescence and adulthood” (co-supervisor, main supervisor: Claudia Rodríguez-Aranda)
Isabel Viola Kreis (2017–2021)	“Too precise or too imprecise: which parameter is gone awry in autism and psychosis” (co-supervisor, main supervisor: Gerit Pfuhl)
Wouter Boekel (2013–2017)	“When the brain takes a break: Neural correlates of mind-wandering”, University of Amsterdam, The Netherlands (co-supervisor, main supervisor: Birte Forstmann)
Zsolt Turi (2011–2015)	“Methodological and cognitive aspects of transcranial electrical stimulation”, University of Göttingen, Germany (co-supervisor, main supervisor: Andrea Antal)

*Research line students (Forskerlinje)* \_\_\_\_\_

Ragnhild Drevland (2021–)	“The effect of cTBS over the left AG on mind wandering”
Steffen Rygg Aasen (2021–)	“The effect of iTBS over the left DLPFC on mind wandering”
Andreas Alexandersen (2020–)	“Investigating the relationship between executive control and mind-wandering using transcranial direct current stimulation”
Samy Babiker (2021–)	“Modulating loss of control using rTMS during chronic pain” (co-supervisor, main supervisor: Gábor Csifcsák)

*Master students* \_\_\_\_\_

Krister Karlsen (2021–2022)	“Mind wandering and online experimentation”
Maren Christensen (2021–2022)	“Volumetric changes in brain structures due to trauma”
Tarjei Hotvedt (2016–)	“Mindfulness and Psoriasis: A pilot study” (co-supervisor: Svein Bergvik) <a href="https://munin.uit.no/handle/10037/15507">https://munin.uit.no/handle/10037/15507</a>

Ida Marie Opdahl (2014–2015)	“Wandering body, wandering mind? The relationship between bodily movement, creativity and mind-wandering” <a href="https://munin.uit.no/handle/10037/9143">https://munin.uit.no/handle/10037/9143</a>
Caroline Angen Ina Klakegg Anastasija Kuprejeva (2020–)	“The effect of chronic pain and loss of control on value-based decision making” (co-supervisor, main supervisor: Gábor Csifcsák)
Are Svendsen (2014–2015)	“Eksistensiell dynamisk terapi på inneliggende pasienter - en eksplorerende studie av utfall og relasjonelle virkningsmekanismer” (co-supervisor, main supervisor: NA)
Ira Beckmann (2010–)	“Negatives Priming als Identifikations- oder Selektionsphänomen” (co-supervisor, main supervisor: Jörg Behrendt)

*Professional students (Hovedoppgave)* \_\_\_\_\_

Jostein Ilvær Andreas Thommesen (2022)	“The effect of transcranial temporal interference stimulation (tTIS) on value-based decision making in healthy adults” (co-supervisor: Gábor Csifcsák)
Emilia Judeth Olsen Nora Nasrollahzadeh Holmboe (2022)	“Parafilia og selvregulering: En normeringsstudie” (co-supervisor: Thomas Eilertsen (SIFER NORD))
Pål Ovanger Stensland (2021)	“The role of eye-movements and pupillometry in the representation of value in a reinforcement-learning context”
Celina Jakobsen Joakim (2021)	“Klinikers vurdering mtp kjønn og ADHD utredninger” (co-supervisor, main supervisor: Jørgen Sundby)
Robert Taknes Tim Lockertsen (2020)	“Psykologi i rettens tjeneste: Hvilke faktorer påvirker årsaksattribusjon i erstatningssaker for psykisk helseskade?” (co-supervisor, main supervisor: Jørgen Sundby) <a href="https://munin.uit.no/handle/10037/21126">https://munin.uit.no/handle/10037/21126</a>

*Bachelor students* \_\_\_\_\_

Emily Haga August Lullau (2021)	“Transcranial Magnetic Stimulation Efficacy in Depression - A Systematic Review and Meta-Analysis” (co-supervisor: Zsolt Turi, Gábor Csifcsák)
Kristian Østhagen Haukås (2019)	“The wandering mind of the long-distance runner”
Anna Elfrida Vollsund Iselin Finn (2018)	“Effectiveness of HD-tDCS on influencing executive control during mind wandering” (co-supervisor: Gábor Csifcsák) <a href="https://osf.io/nm2sz/">https://osf.io/nm2sz/</a>
Ingrid Marie Skjerstad (2017)	“The wandering mind of the long-distance runner”
Christian Fossheim (2015)	“Moment-to-moment fluctuations in emotional valence and mind-wandering”

Aurora Vangen Samy Babiker Sanna Sandell Silje Haugan Steffen Rygg Aasen (2021)	“The effect of sleep-deprivation on mind-wandering: an EEG study” (co-supervisor, main supervisor: Gábor Csifcsák)
Caroline Angen Marlene Holdt (2020)	“Employment of mental effort and representation of environmental volatility during intermittent absence of control over rewards and losses under different feedback schedules” (co-supervisor, main supervisor: Gábor Csifcsák) <a href="https://osf.io/7wcej/">https://osf.io/7wcej/</a>
Jorunn Bjørkøy Sarjo Kuyateh Håkon Reithe (2018)	“Transcranial direct current stimulation above the medial prefrontal cortex facilitates decision-making following periods of low outcome controllability” (co-supervisor, main supervisor: Gábor Csifcsák) <a href="https://psyarxiv.com/rbeuz/">https://psyarxiv.com/rbeuz/</a>

#### *Exchange students* \_\_\_\_\_

Federica Luzzi (2022)	“The effect of transcranial temporal interference stimulation (tTIS) on value-based decision making”
Tabea Brödel (2021)	“Methods for blink detection in pupillometric data” (co-supervisor: Josephine Groot)
Sven Wientjes (2020)	“Hidden Markov Models for estimating attentional focus”
Terezie Sedlinska (2019)	“The impact of loss-of-control on system arbitration” (co-supervisor: Gabor Csifcsak)
Carole Schmidt (2017)	“The role of executive functions in mind wandering” <a href="https://doi.org/10.1111/ejn.15049">https://doi.org/10.1111/ejn.15049</a>
Isabel Kreis (2016)	“The role of executive functions in mind wandering” <a href="https://doi.org/10.1111/ejn.15049">https://doi.org/10.1111/ejn.15049</a>
Divyaratan Popli (2013)	“Eye-tracking and pupillometric correlates of mind wandering” (co-supervisor: Birte Forstmann)

#### GRANTS

<i>HelseNord project PFP1237_15</i> 3 million NOK ( $\approx$ 350.000 EUR) Optimizing transcranial direct current stimulation for treatment of chronic pain and depression (3 year full-time post-doc project)	2015–2018
<i>PhD candidate from Health faculty, UiT</i> Neural and computational correlates of mind wandering (4 year PhD project)	2016–2020

#### PERSONAL SCHOLARSHIPS & AWARDS

<i>Incentive grant</i> Grant awarded by the Faculty of Health for excellent grades in external applications (200k NOK), University of Tromsø	2017
<i>Incentive grant</i> Grant awarded by the Faculty of Health for excellent grades in external applications (200k NOK), University of Tromsø	2016
<i>Research Prize</i>	2015

Research prize from the Institute for psychology, University of Tromsø

*GGNB Fellowship* 2009/05–2012/01  
Full-Time PhD Scholarship offered by Göttingen Graduate School for Neurosciences and Molecular Biosciences (GGNB)

*GGNB Bridging Fund Scholarship* 2008/10–2008/12  
Scholarship offered by Göttingen Graduate School for Neurosciences and Molecular Biosciences (GGNB)

*DFG Scholarship* 2009/01–2009/04  
Full-Time Scholarship “Passungsverhältnisse schulischen Lernens: Verstehen und Optimieren”

*Erasmus Scholarship* 2004/07–2005/08  
Scholarship for studies abroad, Oslo (UiO), Norway

#### SKILLS

*Experimental Methods*  
fMRI, EEG/ERP, EOG, tDCS, TMS, eye-tracking, pupillometry

*Programming Languages*  
Very Good: Python, R, C, C++, Matlab/Octave  
Good: Perl, Java, SQL, PHP, Presentation  
Moderate: F77, Assembler, Objective C, Bash, Javascript

*Computing*  
Parallel Programming (MPI), GPU Programming (OpenGL),  
Unix/Linux Administration, L<sup>A</sup>T<sub>E</sub>X, HTML/CSS

#### LANGUAGES

*German* (native)  
*English* (fluently written, read and spoken)  
*Norwegian* (fluently written, read and spoken)  
*French* (basic skills)  
*Dutch* (basic skills)

#### SPORTS

running, skiing, judo, rock-climbing, hiking, table-tennis, football