CV Guido Biele

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Education

2003-2006 Ph.D., Exp. Psychology Max Planck Institute for Human Development

& Freie Universität Berlin

Max Planck Institute for Human Development

1993-1999 Diploma, Psychology Freie Universität Berlin

Academic Positions

2018- 2019- 2014-2017	Research professor Professor (20%) Senior Researcher ADHD Statistical modeling	Norwegian Institute of Public Health University of Oslo, Department of Psychology Norwegian Institute of Public Health
08/2017-	Researcher ADHD Statistical modeling	Oslo University Hospital
2010-2013	Post doc ADHD Cognitive Neuroscience	University of Oslo, Department of Psychology

Selected grants

2007-2010 **Post doc**

Cognitive Neuroscience

2020	PI	Effect of medication and special education on school performance of children with ADHD	12 000k NOK
2018	PI	A register study of regional variations and parental effects on diagnosis and pharmacological treatment of ADHD	300k NOK
2016	Researcher	NFR: Prenatal exposure to toxicants & childhood neurodevelopmental disorders & cognitive functions	10 000k NOK
2015	co-PI	NFR: The effect of prenatal nutrition on ADHD	8 400k NOK
2011	PI	NFR: Effect of Methylphenidate on Decision Making in ADHD	6 000k NOK
	PI	HSØ: Influence of stimulant medication on brain processes for decision making in ADHD	2 250k NOK
	PI	NK AD/HD, Tourettes Syndrom og Narkolepsi: Decision making and learning in ADHD	250k NOK
2007	PI	BMBF: "Reward- and monitoring-based decision making in the healthy brain: behavior, genes, and neural correlates	1200k NOK

Freie Universität Berlin

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Supervision

Ph.D., main supervisor: Lund-Pedersen (2017), Mowinckel (2016) Ph.D., co supervisor: Krugel (2010), Mohr (2011), Green (2013)

Master students: Blank (2009), Graef (2007), Kazzer (2010), Vavatzanidis (2010), Lund-

Pedersen (2011), Eilertsen (2012), Haahjem Eftedal (2012)

Awards

Best poster award, 6th International Congress for ADHD, 2013, Milano.

Best poster award, 3rd International Eunethydis Conference, 2014, Istanbul

List of Publications

30 publications. Top publications: PNAS (3x), PLoS Biology, European Journal of Epidemiology, American Journal of Epidemiology, Neuroscience and Biobehavioral Reviews. Journal of Neuroscience. h-index: 20.

2019

Biele, G., Gustavson, K., Czajkowski, N. O., Nilsen, R. M., Reichborn-Kjennerud, T., Magnus, P. M., Stoltenberg, C., and Aase, H. (2019). Bias from self selection and loss to follow-up in prospective cohort studies. *European journal of epidemiology*, 34(10):927–938

Borge, T. C., Bransæter, A. L., Caspersen, I. H., Meltzer, H. M., Eek Brandlistuen, E. R., Aase, H., and Biele, G. (2019). Estimating Strength of Associations Between Prenatal Diet Quality and Child Developmental Outcomes – Results From a Large Prospective Pregnancy Cohort. *American journal of epidemiology*, page to appear

Overgaard, K. R., Oerbeck, B., Friis, S., Biele, G., Pripp, A. H., Aase, H., and Zeiner, P. (2019). Screening with an ADHD-specific rating scale in preschoolers: A cross-cultural comparison of the Early Childhood Inventory-4. *Psychological assessment*

2018

Øvergaard, K. R., Oerbeck, B., Friis, S., Pripp, A. H., Biele, G., Aase, H., and Zeiner, P. (2018). Attention-Deficit/Hyperactivity Disorder in Preschoolers: The Accuracy of a Short Screener. *Journal of the American Academy of Child and Adolescent Psychiatry*, 57(6):428–435

Surén, P., Thorstensen, A. G., Tørstad, M., Emhjellen, P. E., Furu, K., Biele, G., Aase, H., Stoltenberg, C., Zeiner, P., Bakken, I. J., and Reichborn-Kjennerud, T. (2018). Diagnosis of hyperkinetic disorder among children in Norway. *Tidsskrift for den Norske laegeforening: tidsskrift for praktisk medicin, ny raekke*, 138(20)

Skåtun, K. C., Kaufmann, T., Brandt, C. L., Doan, N. T., Alnæs, D., Tønnesen, S., Biele, G., Vaskinn, A., Melle, I., Agartz, I., Andreassen, O. A., and Westlye, L. T. (2018). Thalamo-cortical functional connectivity in schizophrenia and bipolar disorder. *Brain imaging and behavior*, 12(3):640–652

2017

Borge, T. C., Aase, H., Brantsæter, A. L., and Biele, G. (2017). The importance of maternal diet quality during pregnancy on cognitive and behavioural outcomes in children: a systematic review and meta-analysis. *BMJ open*, 7(9):e016777

Mowinckel, A. M., Lund Pedersen, M., Ziegler, S., Fredriksen, M., Kaufmann, T., Sonuga-Barke, E. J. S., Endestad, T., Westlye, L. T., and Biele, G. (2017). Increased default-mode variability is related to reduced task-performance and is evident in adults with ADHD. *NeuroImage: Clinical*

Eikemo, M., Biele, G., Willoch, F., Thomsen, L., and Leknes, S. (2017). Opioid Modulation of Value-Based Decision-Making in Healthy Humans. *Neuropsychopharmacology:* official publication of the American College of Neuropsychopharmacology

Lund Pedersen, M., Frank, M. J., and Biele, G. (2017). The drift diffusion model as the choice rule in reinforcement learning. *Psychonomic bulletin & review*, 24(4):1234–1251

2016

Ziegler, S., Lund Pedersen, M., Mowinckel, A. M., and Biele, G. (2016). Modelling ADHD: a review of ADHD theories through their predictions for computational models of decision-making and reinforcement learning. *Neuroscience and biobehavioral reviews*, 71:633–656

Ørstavik, R., Gustavson, K., Rohrer-Baumgartner, N., Biele, G., Furu, K., Karlstad, Ø., Reichborn-Kjennerud, T., Borge, T., and Aase, H. (2016). ADHD i Norge. En statusrapport. Technical report, Norwegain Institute of Public Health

Caspersen, I. H., Aase, H., Biele, G., Brantsæter, A. L., Haugen, M., Kvalem, H. E., Skogan, A. H., Zeiner, P., Alexander, J., Meltzer, H. M., and Knutsen, H. K. (2016). The influence of maternal dietary exposure to dioxins and PCBs during pregnancy on ADHD symptoms and cognitive functions in Norwegian preschool children. *Environment international*, 94:649–660

Berg, N., Biele, G., and Gigerenzer, G. (2016). Consistent Bayesians Are No More Accurate Than Non-Bayesians: Economists Surveyed About PSA. *Review of Behavioral Economics*, 3(2):189–219

Skåtun, K. C., Kaufmann, T., Tønnesen, S., Biele, G., Melle, I., Agartz, I., Alnæs, D., Andreassen, O. A., and Westlye, L. T. (2016). Global brain connectivity alterations in patients with schizophrenia and bipolar spectrum disorders. *Journal of psychiatry & neuroscience: JPN*, 41(3):150159

2015

Lund Pedersen, M., Endestad, T., and Biele, G. (2015). Evidence Accumulation and Choice Maintenance Are Dissociated in Human Perceptual Decision Making. *PloS one*, 10(10):e0140361

Mowinckel, A. M., Lund Pedersen, M., Eilertsen, E., and Biele, G. (2015). A meta-analysis of decision-making and attention in adults with ADHD. *Journal of attention disorders*, 19(5):355–367

Suter, R. S., Pachur, T., Hertwig, R., Endestad, T., and Biele, G. (2015). The neural basis of risky choice with affective outcomes. *PloS one*, 10(4):e0122475

2014

Biele, G., Zeiner, P., and Aase, H. (2014). Convergent and discriminant validity of psychiatric symptoms reported in The Norwegian Mother and Child Cohort Study at age 3 years with independent clinical assessment in the Longitudinal ADHD Cohort Study. Norsk epidemiologi = Norwegian journal of epidemiology, 24(1-2)

2013

Blank, H., Biele, G., Heekeren, H. R., and Philiastides, M. G. (2013). Temporal characteristics of the influence of punishment on perceptual decision making in the human brain. *The Journal of neuroscience: the official journal of the Society for Neuroscience*, 33(9):3939–3952

Hämmerer, D., Biele, G., Müller, V., Thiele, H., Nürnberg, P., Heekeren, H. R., and Li, S.-C. (2013). Effects of PPP1R1B (DARPP-32) Polymorphism on Feedback-Related Brain Potentials Across the Life Span. *Frontiers in psychology*, 4:89

Leknes, S., Berna, C., Lee, M. C., Snyder, G. D., Biele, G., and Tracey, I. (2013). The importance of context: when relative relief renders pain pleasant. *Pain*, 154(3):402–410

2012

Green, N., Biele, G. P., and Heekeren, H. R. (2012). Changes in neural connectivity underlie decision threshold modulation for reward maximization. *The Journal of neuroscience: the official journal of the Society for Neuroscience*, 32(43):14942–14950

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Biele, G., Rieskamp, J., Krugel, L. K., and Heekeren, H. R. (2011). The neural basis of following advice. *PLoS biology*, 9(6):e1001089

Basten, U., Biele, G., Heekeren, H. R., and Fiebach, C. J. (2010). How the brain integrates costs and benefits during decision making. *Proceedings of the National Academy of Sciences of the United States of America*, 107(50):21767–21772

Philiastides, M. G., Biele, G., and Heekeren, H. R. (2010). A mechanistic account of value computation in the human brain. *Proceedings of the National Academy of Sciences of the United States of America*, 107(20):9430–9435

Graef, S., Biele, G., Krugel, L. K., Marzinzik, F., Wahl, M., Wotka, J., Klostermann, F., and Heekeren, H. R. (2010). Differential influence of levodopa on reward-based learning in Parkinson's disease. *Frontiers in human neuroscience*, 4:169

Mohr, P. N. C., Biele, G., and Heekeren, H. R. (2010). Neural processing of risk. *The Journal of neuroscience: the official journal of the Society for Neuroscience*, 30(19):6613–6619

Biele, G., Rieskamp, J., and Gonzalez, R. (2009b). Computational models for the combination of advice and individual learning. *Cognitive science*, 33(2):206–242

Krugel, L. K., Biele, G., Mohr, P. N. C., Li, S.-C., and Heekeren, H. R. (2009). Genetic variation in dopaminergic neuromodulation influences the ability to rapidly and flexibly adapt decisions. *Proceedings of the National Academy of Sciences of the United States of America*, 106(42):17951–17956

Biele, G., Erev, I., and Ert, E. (2009a). Learning, risk attitude and hot stoves in restless bandit problems. *Journal of mathematical psychology*, 53(3):155–167

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2009