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Research and Professional Experience

- 05/2016 – today **Postdoctoral Researcher**
Universiteit Gent, Belgium
Supervisor
Prof. Marcel Brass
Research Focus
I investigate the interaction of intentional and motivational control processes using multivariate pattern analysis of fMRI data. Furthermore, I am interested in the effects of high-level cognitive processes, such as instructions, onto low-level fear learning mechanisms.
- 10/2008 – 04/2016 **PhD Fellow**
Bernstein Center for Computational Neuroscience, Berlin, Germany
SFB940 'Volition and Cognitive Control' Technische Universität Dresden, Germany
Berlin School of Mind and Brain, Germany
Thesis Topic
The neural correlates of intentional control: Motivational effects and functional organization, Grade: summa cum laude
Supervisor
Prof. John-Dylan Haynes
Research Focus
I investigated the interaction of motivational and intentional control processes in the brain and the functional architecture of the intentional control network, using multivariate pattern analysis of fMRI data.
- 10/2014 – 05/2016 **Lecturing**
'Communication, Interaction, Teamwork': Teaching communicative skills to medical students, including patient simulations, at Charité Universitätsmedizin Berlin, Germany
- 01/2013 – 05/2016 **Project management**
Administration and supervision of student assistants, Organizing visits for international guests
Supervision
Supervision of a doctoral thesis, and lab-rotation and master theses

Publications

Wisniewski D, Goschke T, Haynes JD. (2016) Similar Coding of Freely Chosen and Externally Cued Intentions in a Fronto-Parietal Network. *NeuroImage*, 134: 450-58

[\[Abstract\]](#)

Wisniewski D, Reverberi D, Momennejad I, Kahnt T, Haynes JD. (2015) The Role of the Parietal Cortex in the Representation of Task–Reward Associations. *The Journal of Neuroscience*, 35: 12355–65

[\[Abstract\]](#)

Wisniewski D*, Reverberi C*, Tusche A, Haynes JD. (2015) The Neural Representation of Voluntary Task-Set Selection in Dynamic Environments. *Cerebral Cortex*, 25: 4715-26

[\[Abstract\]](#)

Tusche A, Kahnt T, **Wisniewski D**, Haynes JD. (2013) Automatic Processing of Political Preferences in the Human Brain. *NeuroImage*, 72: 174–82

[\[Abstract\]](#)

Wisniewski D. (2016) The neural correlates of intentional control: Motivational effects and functional organization. Doctoral thesis at Humboldt-Universität zu Berlin, Germany

[\[Full Text\]](#)

Haynes JD, **Wisniewski D**, Görden K, Momennejad I, Reverberi C. (2015) fMRI decoding of intentions: Compositionality, hierarchy and prospective memory. *Conference paper: 3rd International Winter Conference on Brain-Computer Interface*, South Korea

[\[Abstract\]](#)

*=these authors contributed equally

Service to the Field

2016 – today Ad-hoc reviewer for Consciousness and Cognition

Grants

2017 – 2020 Incoming [PEGASUS]² Marie-Sklódowska-Curie Grant of the Research Foundation – Flanders and the European Union’s Horizon 2020 research and innovation programme.

Education

10/2002 – 10/2008 **Student**
Humboldt-Universität zu Berlin, Germany
Study Focus
Diploma in Psychology (equivalent to MSc), Grade: 1.3 (excellent)
Thesis topic: Cognitive Control in Eriksen Flanker Tasks, investigated using EEG and dipole source localization

- 09/2006 – 03/2007 **Student**
University of Glasgow, UK (ERASMUS exchange)
Study Focus
EEG data analysis using dipole source localization
- 09/2007 – 06/2008 **Student Assistant**
Max Planck Institute for Human Development, Berlin
Center for Adaptive Behavior and Cognition
Prof. Gigerenzer, Dr. Scheibehenne, Dr. Mata
Work Focus
Behavioral experimental design and programming
- 12/2004 – 12/2007 **Student Assistant**
Department of Psychology, Humboldt-Universität zu Berlin
Biological Psychology Group
Prof. Sommer and Prof. Abdel-Rahman
Work Focus
EEG experimental design, programming, data acquisition and analysis

Scholarships and Awards

ERASMUS exchange scholarship
Max Planck PhD scholarship
Mind and Brain PhD scholarship
Poster Prize of the Berlin School of Mind and Brain, 2010

Invited Talks

- 2015 The functional organization of the intentional control network, Department of Experimental Psychology, Prof. Brass, *Ghent University*
- 2014 The neural basis of intentional and motivational control of behavior, Princeton Neuroscience Institute, Prof. Botvinick and Prof. Cohen, *Princeton University*, NJ, USA
- 2014 The role of parietal cortex in the representation of task-reward-associations, Junior Research Group 'Decision-making in obesity: neurobiology, behavior & plasticity', Dr. Horstmann, *Max Planck Institute for Human Cognitive and Brain Sciences*, Leipzig
- 2013 The role of parietal cortex in the representation of task-reward-associations, Biological Psychology and Cognitive Neuroscience, Prof. Heekeren, *Freie Universität*, Berlin
- 2013 The neural code of voluntary task-set selection in dynamic environments, Center for Adaptive Rationality, Dr. Mata, *Max Planck Institute for Human Development*, Berlin
- 2012 The neural code of voluntary task-set selection in dynamic environments, Department of Psychology, Prof. Leuthold, *Universität Tübingen*
- 2012 The neural code of voluntary task-set selection in dynamic environments, Department of Experimental Psychology, Prof. Brass, *Ghent University*
- 2011 The neural code of voluntary task-set selection in dynamic environments, Graduate School of Systemic Neurosciences, *Ludwig-Maximilians-Universität*, München

Conference Talks

- 2016 Using MVPA to identify the functional organization of the cognitive control network, NeuroCog2016, Leuven [[link](#)]
- 2012 Predicting decisions in a dynamically changing environment from activation patterns in the dorso-medial prefrontal cortex, *2nd Einstein Fellowship Symposium on 'Decision-making'*, Berlin [[link](#)]

Conference Poster Presentations

- 2014 The role of parietal cortex in the representation of task-reward-associations, Annual Meeting of the Society for Neuroscience, Washington DC, USA
- 2014 The neural basis of task-reward associations, Neuronus IBRO & IRUN Neuroscience Forum, Krakow, Poland
- 2013 The neural basis of task-reward associations, Annual Meeting of the Organization for Human Brain Mapping, Seattle, USA
- 2011 Self-regulation of tasks under dynamic conditions, Interdisciplinary College on 'Autonomy, Decisions, and Free Will', G nne, Germany
- 2011 Self-regulation of tasks under dynamic conditions, Cognitive Neuroscience Society Meeting, San Francisco, USA
- 2010 The neural correlates of self-regulated behavior, Annual Meeting of the Society for Neuroscience, San Diego, USA

Key Skills

Design, conduction, analysis of fMRI, EEG, and behavioral experiments
Univariate and multivariate pattern analysis of fMRI data
Coding in Matlab, Python, and R