

Birthdate: 29.11.1982
Nationalities: German, Polish
Address: Henri Dunantlaan 2
9000 Gent
Belgium
E-Mail: david.wisniewski@ugent.be
Website: davidwisniewski.github.io
Twitter @wisneurowski

Research and Professional Experience

- 06/2017 – today **FWO [PEGASUS]² Marie Skłodowska-Curie Fellow**
Universiteit Gent, Belgium
Research group leader
Prof. Marcel Brass
Research Focus
Interaction of intentional and motivational control processes using mainly multivariate pattern analysis of fMRI data.
- 05/2016 – 05/2017 **Postdoctoral Research Fellow**
Universiteit Gent, Belgium
Research group leader
Prof. Marcel Brass
Research Focus
Effects of high-level cognitive processes, such as instructions, onto low-level fear learning mechanisms, using fMRI and psychophysiological measures.
- Administrative and teaching tasks**
Supervision of student experimental and master projects, teaching multivariate fMRI analysis methods, organizing visits of international guests
- 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
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, master thesis and lab-rotation

Publications

Loose L*, **Wisniewski D***, Goschke T, Haynes JD. (2017) Switch independent task representations in frontal and parietal cortex, *bioRxiv* doi:10.1101/138230

[\[Abstract\]](#)

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**, Görgen 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 program.

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

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| 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, <i>Max Planck Institute for Human Cognitive and Brain Sciences</i> , Leipzig |
| 2013 | The role of parietal cortex in the representation of task-reward-associations, Biological Psychology and Cognitive Neuroscience, Prof. Heekeren, <i>Freie Universität</i> , Berlin |
| 2013 | The neural code of voluntary task-set selection in dynamic environments, Center for Adaptive Rationality, Dr. Mata, <i>Max Planck Institute for Human Development</i> , Berlin |
| 2012 | The neural code of voluntary task-set selection in dynamic environments, Department of Psychology, Prof. Leuthold, <i>Universität Tübingen</i> |
| 2012 | The neural code of voluntary task-set selection in dynamic environments, Department of Experimental Psychology, Prof. Brass, <i>Ghent University</i> |
| 2011 | The neural code of voluntary task-set selection in dynamic environments, Graduate School of Systemic Neurosciences, <i>Ludwig-Maximilians-Universität</i> , München |

Conference Talks

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| 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, <i>2nd Einstein Fellowship Symposium on 'Decision-making'</i> , Berlin [link] |

Conference Poster Presentations

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| 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', Günne, 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
Project management