University of Birmingham

Staff

Professor Uta Noppeney (/schools/psychology/people/profile.aspx?ReferenceId=29516)

Chair in Computational Neuroscience

School of Psychology

Professor Noppeney investigates how the human brain integrates information across the senses to interact effectively with our complex dynamic environment. To characterize the neural and computational mechanisms the **Computational Cognitive Neuroimaging Group (http://www.birmingham.ac.uk/research/activity/psychology/comp-cog-neuro/index.aspx)** combines psychophysics, functional imaging (fMRI & EEG/MEG) and computational modelling.

...

Email **u.noppeney@bham.ac.uk (mailto:u.noppeney@bham.ac.uk)**

Thomas White (/schools/psychology/people/profile.aspx?ReferenceId=88196)

Postdoctoral Research Fellow

School of Psychology

Dr Tom White aims to quantify the effects of attention and vigilance on multisensory processing using EEG/fMRI. Combining multimodal neuroimaging data is central to this work; and his previous investigations of healthy brain function and its disturbance in schizophrenia.

Email **t.white.3@bham.ac.uk (mailto:t.white.3@bham.ac.uk)**

Dr Johanna Zumer (/schools/psychology/people/profile.aspx?ReferenceId=75753)

Research Fellow in Computational Cognitive Neuroimaging

School of Psychology

Dr Zumer [j.zumer (at) bham.ac.uk] is interested in quantifying the neuronal mechanisms underlying perception, attention and sensory integration by measuring local activity and inter-regional brain connectivity. She examines the spatiotemporal profile of both neural (MEG/EEG) and haemodynamic (functional MRI) data over a variety of experimental manipulations, to aid the understanding of ...

Telephone **+44 (0) 121 414 6032 (tel:+44 121 414 6032)**

Máté Aller (/schools/psychology/people/profile.aspx?ReferenceId=77009)

Doctoral Researcher

School of Psychology

Title of PhD: The interplay between multisensory integration and awareness

Supervisor: **Professor Uta Noppeney (http://www.birmingham.ac.uk/schools/psychology/people/profile.aspx?ReferenceId=29516&Name=professor-uta-noppeney)**

Máté is undertaking his doctoral research into the effect of awareness on multisensory integration. He is using psychophysics, EEG and Bayesian modeling to investigate how different sensory inputs are integrated in ...

Email **mxa342@bham.ac.uk (mailto:mxa342@bham.ac.uk)**

Samuel Ashley Jones (/schools/psychology/people/profile.aspx?ReferenceId=88241)

Doctoral Researcher

School of Psychology

Sam is undertaking doctoral research, funded by the MRC-ARUK Centre for Musculoskeletal Ageing Research, into multisensory integration in older populations. He uses neuroimaging and psychophysics to investigate the changes to sensory processing that occur with age, and is interested in how these changes can be mediated by exercise.

Email **saj409@bham.ac.uk (mailto:saj409@bham.ac.uk)**

Alexandra Krugliak (/schools/psychology/people/profile.aspx?ReferenceId=78025)

School of Psychology

Alexandra's main research interest is how the brain represents information that is processed by different sensory modalities and how it combines this information into a unified percept. In Alexandra's doctoral research she is investigating interactions between the auditory and visual modalities in the perceptual processing hierarchy using functional Magnetic Resonance Imaging and ...

Email **axk263@student.bham.ac.uk (mailto:axk263@student.bham.ac.uk)**

David Meijer (/schools/psychology/people/profile.aspx?ReferenceId=88262)

Doctoral Researcher

School of Psychology

David Meijer is undertaking doctoral research into the neural integration of simultaneous input from multiple sensory modalities. He combines psychophysics and electroencephalography (EEG) techniques in order to study brain activity related to audio-visual integration.

David is especially interested in the role of neural oscillations in multisensory perception and ...

Email dxm472@bham.ac.uk (mailto:dxm472@bham.ac.uk)

Agoston Mihalik (/schools/psychology/people/profile.aspx?ReferenceId=78032)

School of Psychology

Agoston's research focuses on the neural mechanisms of multisensory integration. He is using psychophysics, fMRI and Bayesian modeling to investigate how people perceive and adapt to their environment in the ventriloquist illusion.

Email axm676@bham.ac.uk (mailto:axm676@bham.ac.uk)

Arianna Zuanazzi (/schools/psychology/people/profile.aspx?ReferenceId=88218)

Doctoral Researcher

School of Psychology

Arianna is a PhD student in the Computational Cognitive Neuroimaging Group (Prof Uta Noppeney). Her doctoral research concentrates on the role of attention, awareness and vigilance in multisensory integration.

She is using non-invasive neurostimulation techniques such as Transcranial Magnetic Stimulation (TMS) and transcranial Electric Stimulation (tES) to investigate ...

Email axz481@bham.ac.uk (mailto:axz481@bham.ac.uk)

Joana Leitao

Joana is a visiting PhD student who started at the MPI for Biological Cybernetics in Tuebingen, Germany, in the Cognitive Neuroimaging Group. She has been a member of the University of Birmingham's Computational Cognitive Neuroimaging Group since 2013.

Joana uses concurrent Transcranial Magnetic Stimulation (TMS) and functional Magnetic Resonance Imaging (fMRI) to investigate the role of the parietal cortex in multisensory integration and visual processing.

Email: JSL247@bham.ac.uk (mailto:JSL247@bham.ac.uk)

Dr Remi Gau

Remi is a visiting PhD student from the International Max Planck Research Graduate School of Neural and Behavioural Sciences in Tuebingen, Germany.

His work concentrates on how prior information affects multi-sensory integration. The first part of his PhD looked at how contextual incongruency affects the fusion audio-visual speech information using psychophysics and fMRI. Using seven tesla high-definition fMRI, he am now investigating how attention modulates the fusion of auditory and visual information in different layers of the cerebral cortex.

Email: RXG243@bham.ac.uk (mailto:RXG243@bham.ac.uk)

See also Prof Noppeney's **Cognitive Neuroimaging Group at the Max Planck Institute for Biological Cybernetics** (http://www.kyb.tuebingen.mpg.de/nc/research/rg/noppeneygroup/employee-list-noppeney.html) .

© University of Birmingham 2015