



Boris Kleber

Postdoctoral fellow

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Research

I am interested in the neural underpinnings of executive motor functions and sensory feedback integration with a particular focus on human vocal production and training-induced neuroplasticity using fMRI, EEG, and TMS methods. Singing is used as a model for investigating experience-dependent effects, as it's motor components are more tightly regulated in the context of music and thus require more training. Within this subject matter, I found that the role of kinesthesia in vocal motor control increases as a function of experience with vocal tasks, as revealed by a combination of behavioral- and neuroscience techniques. Results from these basic science studies are translated and tested for their application in clinical settings. Moreover, we aim to investigate the role of sleep in vocal motor sequence learning. From a methodological point of view, I'm also conducting research using state-of-the-art EEG and real-time fMRI neurofeedback to probe the effects of neural self-regulation on well-being in elite performers and pain perception in chronic pain patients respectively. On a broader scale, I am interested in the neurosciences of music in collaboration with the BRAMS institute in Montreal, Canada.

2011/present	Research Fellow and lecturer, Institute of Medical Psychology and Behavioral Neurobiology, University of Tübingen.
2009/2011	Post-doc, Montreal Neurological Institute, McGill University (Canada), Cognitive Neuroscience Unit (Prof. Robert Zatorre).
2005/2009	PhD student, Institute of Medical Psychology and Behavioral Neurobiology. Executive vocal motor control and neurofeedback in singers and nonsingers.
2004/2005	Research associate, Institute of Medical Psychology and Behavioral Neurobiology, University of Tübingen, Brain Computer Interface group.
2003/2004	Research assistant, Department of Clinical Psychology, University of Konstanz (Germany).
2003	Research assistant, Department of Cognitive Neuroscience (Prof. John Gruzeliier), Imperial College, London (UK).

Teaching

2012-present	Lecturer, introductory course in psychology for medical students. Lecturer, specialization seminar in psychology for medical students. Lecturer, seminar on social phobia and musical performance anxiety for psychology students, University of Tübingen, Germany.
2007-2009	Lecturer, introductory course in psychology for medical students, Lecturer, specialization seminar in psychology for medical students, University of Tübingen, Germany.
2004/2005	Teaching assistant, introductory psychology courses for medical students, University of Tübingen, Germany.

Education

2002	M.Sc. (Psychology) at the University of Konstanz, Germany
2009	PhD (Neuroscience) at Institute of Medical Psychology and Behavioral Neurobiology University of Tübingen

Awards

2007, Graduate Award at the 1. International Symposium of Performance Science (ISPS), conferred by the ISPS Scientific Committee and the Universidade Católica Portuguesa, Porto (Portugal).