ANDREAS STRUBE

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Born 12.05.1994 in Hamburg

ACADEMIA | **Since 01/2024**

Postdoctoral Research Fellow (DFG Walter-Benjamin-Scholarship)
Laboratory for Translational Affective Neuroscience (PI: Prof. Diego Pizzagalli)
Center for Depression, Anxiety and Stress Research, McLean Hospital, Harvard Medical School

09/2023-12/2023

Postdoctoral Research Fellow
Laboratory for Affective Neuroscience (PI: Prof. Christian Büchel)
Institute for Systems Neuroscience, University Medical Center Hamburg-Eppendorf

06/2018-08/2023

PhD Student
Thesis Title: “Exploring the Role of Predictive Coding and Active Inference in Pain: A Bayesian Perspective” (Summa cum laude)
Laboratory for Affective Neuroscience (PI: Prof. Christian Büchel)
Institute for Systems Neuroscience, University Medical Center Hamburg-Eppendorf

10/2015-03/2018

M.Sc. Cognitive Science (Grade: 1.0 with distinction)
University of Osnabrück

10/2012-06/2016

B.Sc. Psychology (Grade: 1.7)
University of Hamburg

PUBLICATIONS | First Author Journal Publications

Habermann, M.*, **Strube, A.***, & Büchel, C. (2024). How control modulates pain. *Trends in Cognitive Sciences*. *shared first authorship

Strube, A., Horing, B., Rose, M., & Büchel, C. (2023). Agency affects pain inference through prior shift as opposed to likelihood precision modulation in a Bayesian pain model. *Neuron*, *111*(7), 1136-1151.

Strube, A., Rose, M., Fazeli, S., & Büchel, C. (2021). Alpha-to-beta-and gamma-band activity reflect predictive coding in affective visual processing. *Scientific reports*, *11*(1), 23492.

Strube, A., Rose, M., Fazeli, S., & Büchel, C. (2021). The temporal and spectral characteristics of expectations and prediction errors in pain and thermoception. *Elife*, *10*, e62809.

Baumgart, K. G.*, Byvshev, P.*, Sliby, A. N.*, **Strube, A.***, König, P., & Wahn, B. (2020). Neurophysiological correlates of collective perceptual decision-making. *European Journal of Neuroscience*, *51*(7), 1676-1696. *shared first authorship

TALKS, POSTERS AND CONGRESS CONTRIBUTIONS

Invited Talks:

01/2025
Department of Psychology, University of Würzburg, ”Exploring the Role of Predictive Coding and Active Inference in Pain: A Bayesian Perspective”

11/2024
PiPS Meeting, Program in Placebo Studies & Therapeutic Encounter, Beth Israel Deaconess Medical Center, Harvard Medical School, Title: “Exploring the Role of Predictive Coding and Active Inference in Pain: A Bayesian Perspective”

06/2024
IBS Center for Neuroscience Imaging Research, Sungkyunkwan University, South Korea, Title: “Predictive Timing, Dread, and the Perception of Pain”

06/2024
Center for Cognitive Neuroscience Talk Series, Dartmouth College, Title: “Exploring Agency and Control in the Bayesian Pain Model”

06/2023
48. Jahrestagung Psychologie & Gehirn (PuG), University of Tübingen, Title: “Agency affects pain inference through prior shift as opposed to likelihood precision modulation in a Bayesian pain model”

05/2023
Human Pain Seminar, Centre for Multimodal Sensorimotor and Pain Research, University of Toronto, Title: “Agency affects pain inference through prior shift as opposed to likelihood precision modulation in a Bayesian pain model”

07/2016
Research Group of Experimental Cogntive Science (PI: Prof. Volker Franz), University of Tübingen, Colloquium. Title: “EEG and response preparation in the motor cortex”

Posters:

06/2024
Organization for Human Pain Mapping (OHBM). Andreas Strube and Christian Büchel. “Predictive Timing, Dread and the Perception of Pain”, Seoul, 2024.

05/2024
49. Jahrestagung Psychologie & Gehirn (PuG). Andreas Strube, Christian Büchel. „Predictive Timing in Pain“, Hamburg, 2024.

09/2023
European Pain Federation (EFIC). Andreas Strube, Björn Horing, Michael Rose, Christian Büchel. “Exploring Cognitive Factors in the Bayesian Pain Model: Precision Modulation and Mean Shifts”, Budapest, 2023.

08/2023
Conference on Cognitive Computational Neuroscience. Andreas Strube, Christian Büchel. “Exploring Cognitive Factors in the Bayesian Pain Model: Precision Modulation and Mean Shifts”, Oxford, 2023.

06/2023
48. Jahrestagung Psychologie & Gehirn (PuG). Andreas Strube, Björn Horing, Michael Rose, Christian Büchel. „Agency, Expectations And The Bayesian Pain Model“, Tübingen, 2023.

05/2023
Society for International Placebo Studies (SIPS), Andreas Strube, Björn Horing, Michael Rose, Christian Büchel. “Agency in Placebo/Nocebo Pain Treatment and

the Bayesian Pain Model", Duisburg, 2023.

09/2022
International Association for the Study of Pain (IASP). Andreas Strube, Björn Horing, Michael Rose, Christian Büchel. "Sensory Attenuation and Expectation in Experimental Treatment of Pain: An Investigation of the Active Inference Model", Toronto, 2022.

07/2017
Osnabrück Computational Cognition Alliance Meeting and socSMCs Workshop. "The neurophysiology of joint decision making", Osnabrück, 2017.

SCHOLARSHIPS & AWARDS & GRANTS

Deutsche Forschungsgemeinschaft (DFG)
Walter-Benjamin-Scholarship (~90.000€)
Project Title: „Utilizing Electroencephalography to Predict Anhedonia Response to Antidepressant Treatment"

Deutsche Gesellschaft für Psychophysiologie und ihre Anwendung (DGPA) e.V.
Brain Products Young Scientist Award for a Distinguished Contribution in EEG Research 2023 (1000€)

07.09.2025 Andreas Strube