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## Publications

### **Laptop-based Testing of Emotion Discrimination and Interoception in Amyotrophic Lateral Sclerosis**

Hakala, C., Heintzelmann, M. B., Blicher, J., Nikolova, N., Allen, M. & Rossau, C. D., 6 Dec 2024.

### **Aberrant Cardiac Interoception in Psychosis**

Jeganathan, J., Campbell, M. E. J., Legrand, N., Allen, M. & Breakspear, M., Dec 2024, In: Schizophrenia Bulletin. 51, 1, p. 208-216 9 p.

### **No gender difference in confidence or metacognitive ability in perceptual decision-making**

Xue, K., Zheng, Y., Papalexandrou, C., Hoogervorst, K., Allen, M. & Rahnev, D., Dec 2024, In: iScience. 27, 12, 111375.

### **Brain-body states embody complex temporal dynamics**

Kluger, D. S., Allen, M. G. & Gross, J., Aug 2024, In: Trends in Cognitive Sciences. 28, 8, p. 695-698 4 p.

### **Thermal contrast enhancement predicts paradoxical heat sensation**

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### **Breathing in waves: Understanding respiratory-brain coupling as a gradient of predictive oscillations**

Brændholt, M., Kluger, D. S., Varga, S., Heck, D. H., Gross, J. & Allen, M. G., Sept 2023, In: Neuroscience and Biobehavioral Reviews. 152, 14 p., 105262.

### **Functional connectivity between interoceptive brain regions is associated with distinct health-related domains: A population-based neuroimaging study**

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### **Respiratory rhythms of the predictive mind**

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### **What Might Interoceptive Inference Reveal about Consciousness?**

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### **In the Body's Eye: The computational anatomy of interoceptive inference**

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**Recent insights into respiratory modulation of brain activity offer new perspectives on cognition and emotion**

Heck, D. H., Correia, B. L., Fox, M. B., Liu, Y., Allen, M. & Varga, S., Apr 2022, In: Biological Psychology. 170, 9 p., 108316.

**The respiratory resistance sensitivity task: An automated method for quantifying respiratory interoception and metacognition**

Nikolova, N., Harrison, O., Toohey, S., Brændholt, M., Legrand, N., Correa, C., Vejøl, M., Jensen, M. S., Fardo, F. & Allen, M., Apr 2022, In: Biological Psychology. 170, 14 p., 108325.

**The heart rate discrimination task: A psychophysical method to estimate the accuracy and precision of interoceptive beliefs**

Legrand, N., Nikolova, N., Correa, C., Brændholt, M., Stuckert, A., Kildahl, N., Vejøl, M., Fardo, F. & Allen, M., Feb 2022, In: Biological Psychology. 168, 14 p., 108239.

**Psilocybin Induces Aberrant Prediction Error Processing of Tactile Mismatch Responses-A Simultaneous EEG-FMRI Study**

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**The seductive allure of cargo cult computationalism**

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**True belief and the ramifications of introspection in scientific discovery**

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**The Filter Detection Task for measurement of breathing-related interoception and metacognition**

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**Emotional metacognition: stimulus valence modulates cardiac arousal and metamemory**

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**Deeply felt affect: The emergence of valence in deep active inference**

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**Thinking through prior bodies: autonomic uncertainty and interoceptive self-inference**

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**Unravelling the Neurobiology of Interoceptive Inference**

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**Beyond labeled lines: A population coding account of the thermal grill illusion**

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**Raincloud plots: A multi-platform tool for robust data visualization [version 1; peer review: 2 approved]**

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**Expectation violation and attention to pain jointly modulate neural gain in somatosensory cortex**

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**Delta and gamma oscillations in operculo-insular cortex underlie innocuous cold thermosensation**

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**Metacognitive ability correlates with hippocampal and prefrontal microstructure**

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**Sociocultural patterning of neural activity during self-reflection**

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**Mental Training and Neuroplasticity: Theoretical and Empirical Insights**

Allen, M. G., 2013, Århus Universitet.

**The balanced mind: the variability of task-unrelated thoughts predicts error monitoring**

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**Interaction versus Observation: distinctive modes of social cognition in human brain and behavior? A combined fMRI and eye-tracking study**

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**Cognitive-Affective Neural Plasticity following Active-Controlled Mindfulness Intervention**

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**Interaction vs. observation: distinctive modes of social cognition in human brain and behavior? A combined fMRI and eye-tracking study**

Tylén, K., Allen, M. G., Hunter, B. K. & Roepstorff, A., 2012, In: Frontiers in Human Neuroscience. 6, p. 331

**Negative "gossip" stimuli modulate left-lateralized P1 component while viewing neutral faces.**

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**Consciousness, plasticity, and connectomics: the role of intersubjectivity in human cognition**

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## **Activities**

**Early math achievement and functional connectivity in the fronto-parietal network (Journal)**

Allen, M. G. (Reviewer)

2012

**On the relationship between the "default mode network" and the "social brain" (Journal)**

Allen, M. G. (Reviewer)

2012