

# André Sevenius Nilsen, PhD

Scientist • Writer • Philosopher

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## Employment

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- 2025–present **Researcher**  
*Kongsberg Hospital (PI: M.D. G. Ernst)*  
Funding applications and data analysis; ketamine–TMS for depression; memory and awareness during propofol sedation.
- 2016–present **Researcher / PhD Candidate**  
*University of Oslo, Brain Signalling Group (PI: Prof. J. F. Storm)*  
PhD defended March 2026. Study design, acquisition, analysis, and writing. Topics: anaesthesia, sleep, consciousness, psychedelics, thalamocortical modelling. Methods: TMS-EEG, ERP, anaesthesia, sleep deprivation, computational modelling.
- 2015–2016 **Researcher**  
*Innlandet Hospital Trust (PI: Assoc. Prof. T. Endestad)*  
Lead analyst and writer for MRI/fMRI trauma study.
- 2014–2016 **Researcher**  
*University of Oslo, Hedonic Pharmacology Lab (PI: PhD S. Leknes)*  
Design, analysis, and writing for morphine-fMRI craving/reward study and oxytocin-eyetracking study.
- 2012–2013 **Scientific Assistant**  
*University of Oslo (PI: PhD I. Blix)*  
fMRI/MRI acquisition and analysis; psychological trauma study.

## Education

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- 2026 **Ph.D., Medicine and Health Science**  
*University of Oslo*  
Thesis: *Consciousness: When Is It Present And How Would We Know?*  
Supervisors: Prof. J. F. Storm, PhD B. E. Juel, Prof. R. J. Huster.
- 2014 **M.Sc., Cognitive Neuroscience**  
*University of Oslo*  
Thesis: *Right Inferior Frontal Gyrus and Motor Response Inhibition: A Real-Time fMRI Neurofeedback Study*. Grade A.
- 2012 **B.Sc., Informatics, Language, Logic and Psychology**  
*University of Oslo*  
Thesis: *The Link Between Numerical Time Estimates and Stored Temporal References*. Grade A.

## Selected Publications

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- [1] Bajwa, I. J., **Nilsen, A. S.**, . . . , Storm, J. F., & Juel, B. E. (2025). A repeated awakening study exploring the capacity of complexity measures to capture dreaming during propofol sedation. *Scientific Reports*, 15(1).
- [2] Wong, W., . . . , **Nilsen, A. S.**, . . . , & Tsuchiya, N. (2025). A dream EEG and mentation database. *Nature Communications*, 16(1).
- [3] **Sevenius Nilsen, A.**, Storm, J. F., & Juel, B. E. (2024). Does Cognitive Load Affect Measures of Consciousness? *Brain Sciences*, 14(9):919. doi:10.3390/brainsci14090919
- [4] **Sevenius Nilsen, A.**, Arena, A., & Storm, J. F. (2024). Exploring effects of anesthesia on complexity, differentiation, and integrated information in rat EEG. *Neuroscience of Consciousness*, 2024(1):niae021. doi:10.1093/nc/niae021

- [5] **Sevenius Nilsen, A.**, Juel, B. E., Thüerer, B., Aamodt, A., & Storm, J. F. (2022). Are we really unconscious in ‘unconscious’ states? Common assumptions revisited. *Frontiers in Human Neuroscience*, 16:987051. doi:10.3389/fnhum.2022.987051
- [6] **Sevenius Nilsen, A.**, Juel, B. E., & Marshall, W. (2019). Evaluating Approximations and Heuristic Measures of Integrated Information. *Entropy*, 21(5):525. doi:10.3390/e21050525

Full publication list: [Google Scholar](#)

## Selected Talks & Presentations

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- 2025 **Invited Talk**  
*Molecular Medicine Department, University of Oslo*
- 2023 **Talk & Panel Discussion**  
*Student Society for Psychedelic Science, University of Oslo*
- 2021 **Abstract & Talk**  
*ConsciousBrainConcepts Annual Workshop, Oslo*
- 2019 **Abstract & Poster**  
*Association for the Scientific Study of Consciousness (ASSC)*
- 2018 **Abstract & Poster**  
*Society for Neuroscience (SfN), San Diego, CA, USA*
- 2015 **Abstract & Poster**  
*Society for Neuroscience (SfN), Chicago, USA*

## Teaching & Supervision

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- 2021–2024 **PSY4318: Multidisciplinary Studies of Consciousness**  
*University of Oslo*  
Course coordinator, syllabus designer, and lecturer.
- 2018 **MBV-SP100: Advanced Neurobiology**  
*University of Oslo*  
Intermittent lecturer.
- 2013–2014 **PSY1010: Research Methods and Statistics**  
*University of Oslo*  
Seminar leader.

Main supervisor: 6 MSc/BSc theses (2018–2024, UiO & Universitat Oldenburg). Co-supervisor: 3 MSc theses (2019–2020, UiO). Also supervised 6 short-term internship students.

## Grants & Stipends

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- 2025 **Grant for ~2 Post-Doctoral Positions**  
*Helse Sør-Øst*  
~\$400k USD. Memory formation and awareness during propofol sedation.
- 2025 **NFFO Stipend — Consciousness Science Textbook**  
*NFFO*  
~\$30k USD.
- 2013 **NFR Summer Stipend**  
*Norges Forskningsråd*  
~\$2k USD.

## Awards & Honours

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2025 **3rd Place — Forsker Grand Prix (Local Final)**  
*Forsker Grand Prix / Forskningsdagene*

## Service & Editorial

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Review Editor Frontiers in Neuroscience / Neuroprosthetics (2022–present)  
Lead Editor Special Issue on Altered States of Consciousness, Frontiers in Brain Health (2025–2026)  
Reviewer 13 journals incl. *Science*, *Nature*, *NeuroImage*, *Human Brain Mapping*  
Organizer UiO LifeScience Conference (2021, 2022); ConsciousBrainConcepts Workshop (2021)

## Software & Repositories

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### **PyConscious**

*Python package*

EEG-based measures of consciousness. Used in multiple published studies.

### **NYP (NEST YAML Platform)**

*Python/YAML framework*

Large-scale thalamocortical neural network simulation platform (~50,000-neuron model).

## Skills

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Programming Python, Matlab, Bash, L<sup>A</sup>T<sub>E</sub>X, E-Basic, Java, C++  
Methods EEG, fMRI, TMS, TMS-EEG, ERP, MRI, eyetracking, computational modelling  
Software FSL, NEST, Freesurfer, AFNI, Neuroscan, SPSS, E-prime, Linux  
Languages Norwegian (native), English (fluent)