

# Curriculum Vitae - Matthijs oude Lohuis

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## • Education •

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2017-2022	<b>Ph.D. – Cognitive and Systems Neuroscience</b> Advisors: Prof. C.M.A. Pennartz & Dr. U. Olcese
2014-2016	<b>M.Sc. - Basic and Applied Neuroscience</b> – University of Amsterdam <i>Cum Laude</i> – GPA 9.03/10
2010-2013	<b>B.Sc. – Psychobiology</b> - University of Amsterdam <i>Cum Laude and Honors Program</i>

## • Other Training •

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2020	<b>Romo Lab - Neurociencia Cognitiva</b> 1 month exchange	IFC UNAM, Mexico
2018	<b>OCNC: OIST Computational Neuroscience Course</b> 1 month summer school	Okinawa, Japan
2015 –2016	<b>Mainen Lab - Systems Neuroscience</b> 8 months internship	Champalimaud, Lisbon
2015	<b>Pennartz Lab - Cognitive and Systems Neuroscience</b> 6 months internship	University of Amsterdam
2013	<b>Levelt Lab - Molecular Visual Plasticity</b> 4 months internship	NIN, Amsterdam

## • Publications •

[G-Scholar Profile](#)

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1. **Oude Lohuis, M.N.**, Marchesi, P., Olcese, U., Pennartz, C.M.A (2022) Triple dissociation of visual, auditory and motor processing in primary visual cortex *BioRxiv*
  2. **Oude Lohuis, M.N.**, Marchesi, P., Pennartz, C.M.A., Olcese, U. (2021) Functional (ir)Relevance of Posterior Parietal Cortex during Audiovisual Change Detection *Journal of Neuroscience*
  3. **Oude Lohuis, M.N.\***, Pie, J.L.\* , Marchesi, P., Montijn, J.S., de Kock, C.P.J., Pennartz, C.M.A., Olcese, U. (2021) Multisensory task demands temporally extend the causal requirement of visual cortex in perception \*shared first authors. *Nature Communications*
  4. **Oude Lohuis, M.N.**, Cantón, A.C., Pennartz, C.M.A., Olcese, U., (2021) Higher-order visual areas broaden stimulus responsiveness in mouse primary visual cortex. *Cerebral Cortex*
  5. Mertens, P.E.C., Marchesi, P., **Oude Lohuis, M.N.**, Krijger, Q. , Pennartz, C.M.A., Lansink, C.S. (2021) Coherent mapping of position and head direction across auditory and visual cortex. *BioRxiv*  
<https://doi.org/10.1101/2021.07.30.452931>;
  6. Vertech, P. Lottem, E., Sarra, D., Godinho, B., Treves, I., Quendera, T., **oude Lohuis, M.N.**, and Mainen, Z.F. (2020) Inference based decisions in a hidden state foraging task: differential contributions of prefrontal cortical areas. *Neuron*
  7. Olcese, U., **oude Lohuis, M.N.**, Pennartz, C.M.A. (2018) Sensory Processing Across Conscious and Nonconscious Brain States: From Single Neurons to Distributed Networks for Inferential Representation. *Front. Syst. Neurosci.*
  8. Lottem, E., Banerjee, D., Vertech, P., Sarra, D., **oude Lohuis, M.N.**, and Mainen, Z.F. (2018) Activation of serotonin neurons promotes active exploitation in a probabilistic foraging task. *Nature Communications*

### • Books & Chapters •

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1. Geluk, H. & **oude Lohuis, M.N.** (2015) Hersenen voor in bed, op het toilet of in bad. *Popular scientific book on the most fascinating neuroscience topics (in Dutch)*. BBNC Uitgevers, ISBN 9789045318431.
2. Geluk, H. & **oude Lohuis, M.N.** (2020) De kleine Hersenen voor dummies. *Introductory neuroscience for dummies (in Dutch)*. BBNC Uitgevers, ISBN 9789045356884.

### • Invited Talks •

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2020 Mar	Multisensory processing across the mouse cortex	IFC UNAM, Mexico
2019 Nov	Functional relevance of sensory- and task-related representations in posterior parietal cortex	ONWAR Meeting Netherlands
2019 Sep	Late activity in visual cortex contributes to visual perception in a multisensory context	SILS Institute, Amsterdam

### • Teaching •

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2017-2021	<b>Teaching Assistant</b> - Neural Models, Representation and Consciousness
2013-2014	<b>Teaching Assistant</b> - Molecular Biology of the Cell, Neurophysiology, Experimental Design

### • Ancillary Activities •

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2017-2020	<b>Regular author EMDR Magazine</b> – <i>Collaboration with Dr. Hellen Hornsveld translating fear memory neuroscience literature for clinical practitioners</i>
2014-2019	<b>Dutch Brain Bank</b> - <i>Member of Autopsy Team. Organizing and facilitating sectioning after passing of a brain donor (On-Call).</i>

### • Refereeing •

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*Journals:* Journal of EMDR Practice and Research, Frontiers in Systems Neuroscience