Johannes W. de Jong
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EDUCATION

Utrecht University — Utrecht, The Netherlands
PhD, Neuroscience — June, 2015
Utrecht University — Utrecht, The Netherlands
MSc, Neuroscience and Cognition GPA: 4.0/4.0 — August, 2010
Utrecht University — Utrecht, The Netherlands
https://www.overleaf.com/project/5fc58be157fac7ba963739ff *BSc, Biomedical Sciences* GPA: 6.8/10 — August, 2008

WORK EXPERIENCE

UC Berkeley — Berkeley, CA
Postdoc, Lammel Lab — March, 2015 – present
Research project: Drug-Evoked Plasticity in the Mesolimbic Dopamine System

Yale University — New Haven, CT
Intern, DiLeone Lab — January, 2010 – August, 2010
Research project: Analysis of Transcriptional Plasticity After Food Restriction.

Utrecht University Medical Center — Utrecht, The Netherlands
Intern, Adan Lab — December, 2008 – August, 2009
Research project: Food Anticipatory Activity

HONORS AND AWARDS

- NARSAD Young Investigator Award (2020 - 2021)
- Trainee and professional development award from the Society for Neuroscience. San Diego, USA. 2018
- Honorary mention (9 out of 123 posters). Gordon Research Conference on Optogenetics and Imaging. Newry, USA. 2018
- Poster prize (1st prize) Winter Conference on Brain research in Whistler, Canada. 2018.
- David de Wied Travel Award, to attend the Society for Neuroscience Meeting in Washington, USA. 2014
- Conference Travel Award from the Dutch Society for Pharmacological Sciences, to attend the Dopamine 2013 conference in Alghero, Italy. 2013
- Conference Travel Award from the Dutch Society for Pharmacological Sciences, to attend the Society for Neuroscience Meeting in San Diego, USA. 2013
- Honor student at Utrecht University, 2006 - 2008.

SKILLS

Data Analysis and Machine Learning: Extensive experience using Python and MATLAB for data acquisition and analysis, including custom-written software for semi-automated clustering and analysis of in-vivo electrophysiology data, calcium imaging and whole-brain microscopy. Experience with deep learning (MATLAB, Tensorflow and Keras) obtained during coursework for the deep learning specialization on deeplearning.ai. Open source code at: github.com/handejong.
Animal Work: Experience with both rats and mice, operant behavior, intracranial surgery, phenotyping, pharmacology, *in-vivo* and *ex-vivo* electrophysiology, optogenetics and calcium imaging.
Molecular Work: Experience with bacteria, human cells and viruses, Quantitative PCR, Immunohistochemistry, (Radioactive) in situ hybridization, cloning, production and design of viral vectors (AAV and Lenti) for knockdown or over-expression of genes both *in-vitro* and *in-vivo*.
Other Skills: Teaching experience: physiology, pharmacology and neuroscience to med students and biomedical students (undergrads). Research project supervision of psychology and biomedical master students.

OTHER ACTIVITIES

- Volunteer at an addiction health center (VICTAS, Utrecht).
- Session chair and organizer at the Dutch Neuroscience Meeting
- Student representative to the board of studies of the graduate school of life sciences, Utrecht University

SELECTED PUBLICATIONS

- J. W. de Jong, S. A. Afjei, I. Pollak Dorocic, J. R. Peck, C. Liu, C.K. Kim, ... S. Lammel (2019) **A Neural Circuit Mechanism for Encoding Aversive Stimuli in the Mesolimbic Dopamine System.** Neuron
- H. Yang, J.W. de Jong, Y. Tak, J. Peck, H.S. Bateup & S. Lammel (2018) **Nucleus Accumbens Subnuclei Regulate Motivated Behavior via Direct Inhibition and Disinhibition of VTA Dopamine Subpopulations.** Neuron
- J. P. H. Verharen, J.W. de Jong, T.J.M. Roelofs, C.F.M. Huffels, ... L.J.M.J. Vanderschuren (2018) **A neuronal mechanism underlying decision-making deficits during hyperdopaminergic states.** Nature Communications

- J.W. de Jong, L.J. Vanderschuren, R.A. Adan (2016) **The mesolimbic system and eating addiction: what sugar does and does not do.** Current Opinion in Behavioral Sciences
- J.W. de Jong, T.J.M. Roelofs, F.M.U. Mol, ... R.A. Adan (2015) **Reducing Ventral Tegmental Dopamine D2 Receptor Expression Selectively Boosts Incentive Motivation.** Neuropsychopharmacology
- J.W. de Jong, K.E. Meijboom, L.J.M.J. Vanderschuren, R.A.H. Adan (2013) **Low control over palatable food intake in rats is associated with habitual behavior and relapse vulnerability: individual differences.** PLoS ONE
- J.W. de Jong, L.J.M.J. Vanderschuren, R.A.H. Adan (2012) **Towards an animal model of food addiction.** Obes Facts

For a complete overview see: Google Scholar.