

# Curriculum Vitae

Peder M Isager

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## Education

**2015-2017 Master's degree, Cognitive Neuroscience;** University of Oslo

Thesis title:  *$\mu$ -Opioid Modulation of Reported Wanting of Palatable Food Images.*

Thesis link: <https://doi.org/10.31237/osf.io/8nvvb9>.

Supervisors: Siri Leknes, Marie Eikemo, Tom Johnstone.

**2012-2015 Bachelor's degree, Psychology;** University of Oslo

Specializations: cognitive psychology, social psychology

Thesis title: *Cognitive representation of social status hierarchies.*

Thesis link: <https://doi.org/10.31237/osf.io/w6qkv>

Supervisor: Thomas W. Schubert

## Employment history

**2017-present Doctoral candidate;** Eindhoven University of Technology

PhD position funded by VIDI Grant 452-17-013 - "Increasing the Reliability and Efficiency of Psychological Science" - from the Netherlands Organisation for Scientific Research.

**2017 Research assistant, [Center for Social and Affective Neuroscience](#);** Linköping University

Two-month funded RA position. Assisted with experiment logistics, data collection, and analysis in project studying social touch in human subjects.

**2015-2017 Research assistant, [Leknes Affective Brain Lab](#);** University of Oslo

Internship with a wide range of responsibilities, including: Collection and analysis of more than 100 fMRI datasets along with physiological and behavioral data; Responsible for organizing lab meetings; Presentation of data at international scientific meetings; Peer review of papers in international journals; etc.

**2014-2017 Research assistant, Thomas W. Schubert;** University of Oslo

Responsibilities including: Developing reaction time paradigm on Qualtrics for the MTurk platform; Assisting with setup of Virtual Reality laboratory; Assisting literature search.

## Publications

### 2021

Buchanan, E. M., Crain, S. E., Cunningham, A. L., Johnson, H. R., Stash, H., Papadatou-Pastou, M., ... **Isager, P. M.**, ... & Aczel, B. (2021). Getting Started Creating Data Dictionaries: How to Create a Shareable Data Set. *Advances in Methods and Practices in Psychological Science*, 4(1), 2515245920928007.

### 2020

**Isager, P. M.** (2020, September 28). Test validity defined as d-connection between target and measured attribute: Expanding the causal definition of Borsboom et al. (2004). *PsyArxiv* <https://doi.org/10.31234/osf.io/btgsr>

**Isager, P. M.**, van Aert, R. C. M., Bahník, Š., Brandt, M. J., DeSoto, K. A., Giner-Sorolla, R., ... Lakens, D. (2020, September 2). Deciding what to replicate: A formal definition of “replication value” and a decision model for replication study selection. *MetaArXiv*, <https://doi.org/10.31222/osf.io/2gurz>

Scheel, A. M., Tiokhin, L., **Isager, P. M.**, & Lakens, D. (2020). Why hypothesis testers should spend less time testing hypotheses. *Perspectives on Psychological Science*, 1745691620966795.

Botvinik-Nezer, R., Holzmeister, F., Camerer, C. F., Dreber, A., Huber, J., Johannesson, M., ..., **Isager, P. M.**, ... & Avesani, P. (2020). Variability in the analysis of a single neuroimaging dataset by many teams. *Nature*, 582, 84–88, <https://doi.org/10.1038/s41586-020-2314-9>

Lakens, D., McLatchie, N., **Isager, P. M.**, Scheel, A. M., & Dienes, Z. (2020). Improving inferences about null effects with Bayes factors and equivalence tests. *The Journals of Gerontology: Series B.*, gby065, <https://doi.org/10.1093/geronb/gby065>

### 2019

McIntyre, S., Mounbou, A., Boehme, R., **Isager, P. M.**, Lau, F., Israr, A., ... & Olausson, H. (2019, July). Affective touch communication in close adult relationships. In *2019 IEEE World Haptics Conference (WHC)* (pp. 175-180). IEEE.

### 2018

Moshontz, H., Campbell, L., Ebersole, C. R., IJzerman, H., Urry, H. L., ..., **Isager, P. M.**, ... Chartier, C. R. (2018). The Psychological Science Accelerator: Advancing Psychology Through a Distributed Collaborative Network. *Advances in Methods and Practices in Psychological Science*, 1(4), 501–515. <https://doi.org/10.1177/2515245918797607>

Holmgren, J.\*, **Isager, P. M.**\*, Schubert, T. W. (2018). Evidence for magnitude representations of social hierarchies: Size and distance effects. *PLOS ONE* 13(9), e0203263. <https://doi.org/10.1371/journal.pone.0203263>. \*Joint first-authors

Coles, N., Tiokhin, L., Scheel, A. M., **Isager, P.**, & Lakens, D. (2018). The costs and benefits of replication studies. *Behavioral and Brain Sciences*, 41, [e124]. DOI: 10.1017/S0140525X18000596

Lakens, D., Scheel, A. M., & **Isager, P. M.** (2018). Equivalence Testing for Psychological Research: A Tutorial. *Advances in Methods and Practices in Psychological Science*, 1(2), 259–269. <https://doi.org/10.1177/2515245918770963>

Løseth, G. E., Eikemo, M., **Isager, P.**, Holmgren, J., Laeng, B., Vindenes, V., ... & Leknes, S. (2018). Morphine reduced perceived anger from neutral and implicit emotional expressions. *Psychoneuroendocrinology*, 91, 123-131. DOI: 10.1038/s41562-018-0311-x

Lakens, D., Adolfs, F. G., Albers, C. J., Anvari, F., Apps, M. A., ... **Isager, P. M.**, ... & Buchanan, E. M. (2018). Justify your alpha. *Nature Human Behaviour*, 2(3), 168.

## Invited talks

**2020 Deciding what to replicate**; University of Groningen

**2020 What is worth replicating? Formalizing a core decision problem in replication research**; University of Cambridge

**2020 Choosing what to replicate: Efficient study selection in the modern age**; Rotterdam RIOTS club. Link to online recording: <https://www.youtube.com/watch?v=0j-nKDCPcRQ>

**2019 Sharing data via the Open Science Framework**; Eindhoven University of Technology

**2018 Metascience, ontologies, and me**; VU Amsterdam

**2018 Innovations in research methods: Nuances in best practices**; University of Oslo

## Conferences

### Organization

**2020 Symposium chair**; Berlin, Germany

Chaired and helped organize symposium at the Reward|EQUATOR conference, held at Charité, Berlin.

**2016 Head organizer of dept. research symposium**; University of Oslo

Local symposium communicating department research projects to students. Responsibilities: Securing funding; Recruiting speakers; Promotion; Event logistics, project presentation at event.

### Presentations

**2020 Psychological Science Accelerator Conference 2020**; Online

Silan, M., Isager, P. M., Szabelska, A., & almedia, I., Pfuhl, G. *Theory and Measurement Projects - Possible Submission Types?*

**2020 Reward|EQUATOR conference**; Berlin, Germany

Isager, P. M. *Quantifying the replication value of research findings: Increase the return on investment in replication research.*

**2019 Tilburg Meta-Research Day**; Tilburg, Netherlands

Isager, P. M., van Assen, M. *How can meta-research improve the Psychological Science Accelerator (PSA) and how can the PSA improve meta-research?*

**2019 ZPID Open Science**; Trier, Germany

Isager, P. M. *Quantifying replication value: A formula-based approach to study selection in replication research*

**2017 International Convention of Psychological Science**; Vienna, Austria

Isager P. M., Holmgren J., Schubert T.W. *Social status as magnitude: The distance effect in social hierarchies. Part of the symposium Space for Cognition: Consequences of Biases in Spatial Cognition.*

## Posters

**2019 Society for the Improvement of Psychological Science;** Rotterdam, Netherlands

**Peder M. Isager**, Anna van 't Veer, Tobias Nosten, Els Janson, Daniël Lakens. *Quantifying Replication Value: A guide in the decision of what to replicate*. Poster on OSF: <https://osf.io/92ecp>

**2016 Reading Emotions;** Reading, United Kingdom

**Isager P. M.**, Eikemo M, Holmgren J, Nilsen AS, Vindenes V, Johnstone T, Leknes S. *Effect of morphine on hedonic evaluation of palatable food images in healthy humans*.

**2015 Center for Social and Affective Neuroscience, Inaugural symposium;** Linköping, Sweden

**Isager P. M.**, Eikemo E, Vindenes V, Leknes S. *Effects of  $\mu$ -opioid agonism on reward behavior: subjective liking and disliking of win/loss stimuli*.

## Abstracts

**2020 Psychological Science Accelerator Conference 2020;** Online

Silan, M., **Isager P. M.** *Study Incubation as an Alternative to Standard Peer Review*.

**2018 Organization for Human Brain Mapping, annual meeting;** Singapore

Eikemo, M., **Isager, P. M.**, Lie, S. Ø., Holmgren, J., Nilsen, A. S., Ernst, G., Vindenes, V., Hjørnevik, T., Leknes, S., Johnstone, T., *Bayes Factor analysis of pulse, respiration and BOLD signal changes following a low analgesic dose of morphine*.

**2018 51. Kongress de DGPs;** Frankfurt am Main, Germany

Scheel, A. M., **Isager, P. M.**, Lakens, D., *Equivalence Testing for Psychological Research*.

**2018 Society for Social Neuroscience, annual meeting;** San Diego, United States

McIntyre, S., Hauser, S.C., Homman, L., Kusztor, A., Isager, P. M., Mounou, A., Nagi, S., Israr, A., Gerling, G. J., Olausson, H., *Standardised gestures can be used for interpersonal touch communication*.

## Media outreach

**2018 Solving big problems with big collaborations in psychological research;** Psykologisk Tidsskrift (Norwegian)

**2018 [SpecialiTea 5 - Peder](#);** ReproducibiliTea (Podcast)

## Competitive funding and awards

Travel Grant, Society for the Improvement of Open Science, Rotterdam, NL (USD 400)

Travel Grant, Open Science Conference, Berlin, DE (USD 300)

## Teaching experience

- Advanced Cognition (TU/e MA course. One lecture each year for two years)
- Bachelor End Project - Human Technology Interaction (TU/e BA course. Five bachelor projects supervised and graded)
- Brain, Body and Behavior (TU/e BA course. Two lectures each year for two years, group supervision and exam grading)
- Introduction to the HTI domain (TU/e MA course. One lecture each year for two years)
- Quantitative Research methods (TU/e BA course. Group supervision and exam grading)
- Thinking and Deciding (TU/e MA course. Debate moderating and assignment grading)
- Software Carpentry workshop (TU/e workshop for employees. Assistance during R and Unix classes)

## Service experience

### **2018-present Board member, Data & Methods committee;** Psychological Science Accelerator

Responsibilities include organization of committee meetings, voting, drafting and ratification of policy documents, and review of research proposals submitted to the organization.

### **2017 Board member, Community Development Committee;** Thesis Commons

Contributed as volunteer board member to the launch of Thesis Commons, a preprint server powered by OSF Preprints. Primary contribution consisted of promoting the service to early adopters.

## Ad-hoc reviews

- Advances in Methods and Practices in Psychological Science
- CollabraOA
- Meta-psychology
- PAIN
- Royal Society Open Science
- Social Cognitive and Affective Neuroscience

## Professional training

- Winter School - Psychological Networks Amsterdam Winter School (2020)
- Summer School - Würzburg International Summer School on Social Cognition and Neuroscience (2017)
- PhD course - Supervising master students (2019)
- PhD course - Supervising bachelor students (2018)
- PhD course - Scientific integrity (2018)
- PhD course - Poster design and presentation (2018)
- Workshop - Interacting with the Abel supercomputer at UiO (2016)
- Workshop - Data Carpentry, research data management (2015)
- Workshop - Software Carpentry, introduction to R, Unix, Git and Python (2015)

## Professional skills

### **Programming & data analysis software**

- R (expert)
- Excel (working knowledge)
- FSL (brain imaging analysis software - working knowledge)
- Git (working knowledge)
- Matlab (working knowledge)
- SPSS (working knowledge)
- Unix Shell (working knowledge)
- Python (beginner)
- SLURM computer cluster interface (beginner)

### **Languages**

I am fluent in both written and verbal English and Norwegian.

## References

**Prof. Daniël Lakens** Industrial Engineering & Innovation Sciences, Eindhoven University of Technology

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