

Curriculum Vitae

Peder M Isager

August 5, 2022

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Education

2017-2022 Doctor's degree; Eindhoven University of Technology

Specializations: Research methods, statistics, replication.

Thesis title: *Deciding what to replicate.*

Thesis link: https://pure.tue.nl/ws/portalfiles/portal/200554284/20220524_Isager_hf.pdf.

Supervisors: Daniël Lakens, Anna van 't Veer, Chris Snijders.

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

Specializations: Psychopharmacology, fMRI.

Thesis title: *μ -Opioid Modulation of Reported Wanting of Palatable Food Images.*

Thesis link: <https://doi.org/10.31237/osf.io/8nvv9>.

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

2021-present Associate professor; Oslo New University College

Employed at the department of Psychology. Main responsibilities: develop and teach quantitative research methods course at the masters level, supervise master student projects, act as department superuser for research software services, conduct independent research.

2017-2021 Doctoral candidate (paid position); 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. Conducted independent research and assisted with teaching.

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

Isager, P. M., van Aert, R. C. M., Bahník, Š., Brandt, M. J., DeSoto, K. A., Giner-Sorolla, R., . . . Lakens, D. (2021). Deciding what to replicate: A Decision Model for Replication Study Selection Under Resource and Knowledge Constraints. *Psychological Methods*, <https://doi.org/10.1037/met0000438>

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>

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., Mougou, 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., and 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 μ -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., Mougou, 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

- Applied quantitative research methods (ONH MA course. Course administrator)
- 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

2022-present Assistant director of Data; Psychological Science Accelerator

2018-2022 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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Prof. Anna van 't Veer Institute of Psychology, Leiden University

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