Anton Olsson-Collentine

Researcher working with statistics, data, and people to better society.
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EDUCATION

2024 — **PhD in Methodology and Statistics**
Tilburg University, the Netherlands
Courses in quantitative (psychometrics, statistical simulation, Bayesian statistics, agent-based modelling, machine learning) and qualitative methodology, as well as supervision and teaching skills

2018 — **Msc. Social and Behavioral Sciences (Cum Laude)**
Tilburg University, the Netherlands
Specialization Methodology and Statistics. Courses in quantitative methods (experimental methods, regression, meta-analysis, categorical data analysis, psychometrics, Bayesian statistics), psychology, sociology, and organizational studies

2016 — **Bsc. Psychology**
The University of Gothenburg, Sweden
Courses in psychology and statistics

ACADEMIC ACTIVITIES

2019 - 2022 — **Statistical consultant ETZ hospitals**
Departmental liaison providing statistical consulting to medical researchers at the ETZ hospitals in Tilburg

2020 - 2022 — **PhD representative Interuniversity Graduate School of Psychometrics and Sociometrics (IOPS)**
Among other things, activities consisted of attending IOPS board meetings, selecting reviewers for new IOPS proposals, and chairing the IOPS PhD student meeting.

2019 — **Organizing committee Tilburg Meta-research Day 2019**
Member of the organizing committee of an 1-day meta-research conference at Tilburg University. Plenary speakers: John Ioannidis, Ana Marušić, and Sarah de Rijcke.

2019 — **Organizer MTO code review**
Organizer of bi-weekly code review seminars at the Methodology and Statistics department of Tilburg University.

PUBLICATIONS

2023   **Olsson-Collentine**, A., Bakker, M., & Wicherts, J. M. (2023, June 22). Unreliable Heterogeneity: How Measurement Error Obscures Heterogeneity in Meta-analyses in Psychology. PsyArXiv. https://doi.org/10.31234/osf.io/jnb6e

2023   **Olsson-Collentine**, A., van Aert, R. C. M., Bakker, M., & Wicherts, J. M. (2023). Meta-analyzing the multiverse: A peek under the hood of selective reporting. Psychological Methods. https://doi.org/10.1037/met0000559.

2023   van Aert, R. C. M., Nuijten, M. B., **Olsson-Collentine**, A., Stoevenbelt, A. H.,vandenAkker,O.,& Wicherts,J.M.(2023). Comparing the prevalence of statistical reporting inconsistencies in COVID-19 preprints and matched controls: A Registered Report. Royal Society Open Science. https://doi.org/10.1098/rsos.202326

2023   van Assen, M. A. L. M., van den Akker, O. R., Augusteijn, H. E. M., Bakker, M., Nuijten,M.B., **Olsson-Collentine**,A., Stoevenbelt,A.H., Wicherts,J.M., & van Aert, R. C. M. (2023). The meta-plot: A graphical tool for interpreting the results of a meta-analysis. Zeitschrift für Psychologie, 231(1), 65-78. https://doi.org/10.1027/2151-2604/a000513

2022   Suzanne Hoogeveen, Alexandra Sarafoglou, Balazs Aczel, Yonathan Aditya, Alexandra J. Alayan, Peter J. Allen, Sacha Altay, Shilaan Alzahawi, Yulmaida Amir, Francis-Vincent Anthony, Obed Kwame Appiah, Quentin D. Atkinson, Adam Baimel, Merve Balkaya-Ince, Michela Balsamo, Sachin Banker, František Bartoš, Mario Becerra, Bertrand Beffara, ..., Anton **Olsson-Collentine**, ... & Eric-Jan Wagenmakers (2022) A many-analysts approach to the relation between religiosity and well-being, Religion, Brain & Behavior, DOI: 10.1080/2153599X.2022.2070255

2021   Mulder, J., Williams, D. R., Gu, X., Tomarken, A., Böing-Messing, F., **Olsson-Collentine**, A., Meijerink-Bosman, M., Menke, J., van Aert, R., Fox, J.-P., Hoijtink, H., Rosseel, Y., Wagenmakers, E.-J., & van Lissa, C. (2021). BFpack: Flexible Bayes Factor Testing of Scientific Theories in R. Journal of Statistical Software, 100(18), 1–63. https://doi.org/10.18637/jss.v100.i18

2020   **Olsson-Collentine**, A., Wicherts, J. M., & van Assen, M. A. L. M. (2020). Heterogeneity in direct replications in psychology and its association with effect size. Psychological Bulletin, 146(10), 922–940. https://doi.org/10.1037/bul0000294

2020   Maassen E, van Assen MALM, Nuijten MB, **Olsson-Collentine** A, Wicherts JM (2020) Reproducibility of individual effect sizes in meta-analyses in psychology. PLoS ONE 15(5): e0233107. https://doi.org/10.1371/journal.pone.0233107

2019   **Olsson-Collentine**, A., van Assen, M. A. L. M., & Hartgerink, C. H. J. (2019). The Prevalence of Marginally Significant Results in Psychology Over Time. Psychological Science, 30(4), 576–586. https://doi.org/10.1177/0956797619830326

2019   Mulder, J. & **Olsson-Collentine**, A. (2019). Simple Bayesian testing of scientific expectations in linear regression models. Behavior Research Methods. https://doi.org/10.3758/s13428-018-01196-9

PRESENTATIONS

Conferences   ICPS Brussels (2022), Metascience (2021), AIP LECCE (2021), IOPS winter (2020), Open Science (2019), ICPS Paris (2019);

Symposia   Platform for Young Meta-Scientists (2019), EPP Meta-Analysis Symposium (2018);

PEER REVIEWING

2018 - present   Royal Society Open Science

Psychological Bulletin

Psychological Methods

Neuropsychology Review

PLoS One

Collabra: Psychology

Zeitschrift für Psychologie

Language Learning

TEACHING (TUTORIALS)

2022   **Test theory (psychometrics)**
Tilburg University, the Netherlands

2018   **Test theory (psychometrics)**
Tilburg University, the Netherlands

2018   **Introduction to statistics**
Tilburg University, the Netherlands

2017   **Test theory (psychometrics)**
Tilburg University, the Netherlands

SUPERVISION

Oct 2020 - Feb 2021   **Supervisor of Sep Hesselmans**
Bachelor thesis: Construct validity in Registered Replication Reports

PROFESSIONAL MEMBERSHIPS

Research Data Alliance (RDA)

Society for Improvement of Psychology (SIPS)

Interuniversity Graduate School of Psychometrics and Sociometrics (IOPS)

Psychological Science Accelerator (PSA)

Society for Open, Reliable, and Transparent Ecology and Evolutionary biology (SORTEE)