*What is psychometrics?*

Program 2022

Organizer: Denny Borsboom ([dennyborsboom@gmail.com](mailto:dennyborsboom@gmail.com))

Location: University of Amsterdam, Various locations at Roeterseilandcomplex (REC), Nieuwe Achtergracht 129-B, <https://bit.ly/2IhsvEl>

The literature for the course can be downloaded from: <https://bit.ly/3KUmuPb>

Please bring your laptop for Dylan Molenaar’s lecture on day 2.

*Course setup:*

This course is designed to give an overview of psychometrics as a field. The lectures cover general topics that are relevant to many subfields of psychometrics. They are intended to provide an overview of the field and highlight issues that are important to the role of psychometrics in science and society. Course credits are awarded for active participation.

Program:

*Tuesday 27 September, Room: G.2.11 (Building G, Roeterseiland).*

10:00-13:00: Rob Meijer, Groningen University

Title: Psychometrics in Practice

# *Literature:*

# Niessen, A. S. M, & Meijer, R. R. (2017). On the use of broadened selection criteria in higher education. *Perspectives on Psychological Science.*

13:00-14:00: Lunch

14:00-17:00: Denny Borsboom, University of Amsterdam

*Title*: Network Approaches, Models, and Theories in Psychometrics

*Literature*:

Borsboom, D., Deserno, M. K., Rhemtulla, M., Epskamp, S., Fried, E. I., McNally, R. J., Robinaugh, D. J., Perugini, M., Dalege, J., Costantini, G., Isvoranu, A.-M., Wysocki, A. C., van Borkulo, C. D., van Bork, R., & Waldorp, L. J. (2021). Network analysis of multivariate data in psychological science. *Nature Reviews Methods Primers*, *1*(1). https://doi.org/10.1038/s43586-021-00055-w

*Wednesday 28 September*, *Room: Room: G.2.11 (Building G, Roeterseiland).*

10:00-13:00: Dylan Molenaar, University of Amsterdam

*Title:* Psychometric Modeling of Response Processes using Item Response Times

*Literature*:

Van der Maas, H. L. J., Molenaar, D., Maris, G., Kievit, R. A., & Borsboom, D. (2011). Cognitive psychology meets psychometric theory: On the relation between process models for decision making and latent variable models for individual differences. *Psychological Review, 118,* 339-356.

13:00-14:00: Lunch

14:00-17:00: Laura Bringmann, University of Groningen

*Title:* The Philosophy of Psychometrics

*Literature*:

Bringmann, L. F., Elmer, T., & Eronen, M. I. (2022). Back to Basics: The Importance of Conceptual Clarification in Psychological Science. *Current Directions in Psychological Science*, *31*(4), 340–346. <https://doi.org/10.1177/09637214221096485>

*Thursday 29 September: Room: GS.01 (Souterrain Building G, Roeterseiland).*

10:00-13:00: Lisa Wijsen, University of Amsterdam

*Title:* Perspectives on Psychometrics

*Literature*:

Wijsen, L. D., & Borsboom, D. (2021). Perspectives on Psychometrics Interviews with 20 Past Psychometric Society Presidents. *Psychometrika*, *86*(1), 327–343. https://doi.org/10.1007/s11336-021-09752-7

13:00-14:00: Lunch

# 14:00-17:00 Leonie Vogelsmeijer and Joran Jongerling, Tilburg University

*Title*: Modeling Intensive Longitudinal Data

*Literature*: **Chapter 4** of Myin-Germeys, I., & Kuppens, P. (Eds.). (2022) *The open handbook of experience sampling methodology: A step-by-step guide to designing, conducting, and analyzing ESM studies*(2nd ed.). Leuven: Center for Research on Experience Sampling and Ambulatory Methods Leuven.

Available at: <https://www.kuleuven.be/samenwerking/real/real-book/index.htm>