

Curriculum Vitae

PERSONALIA Full name: Riet van Bork
Date of Birth: 09/11/1990
Place of Birth: Amsterdam, Netherlands
Email address: rietvanbork@hotmail.com
<http://www.rietvanbork.nl>

WORK EXPERIENCE

Academic appointments

Post-doctoral researcher September 2021 - current
University of Amsterdam
Department of Psychological Methods
Post-doc in the Theory Methods Lab: <http://www.theorymethodslab.com>

Post-doctoral fellow January 2021 - August 2021
Center for Philosophy of Science, Pittsburgh

Assistant Professor November 2018 - December 2020
University of Amsterdam
Department of Psychological Methods

PhD student at the University of Amsterdam November 2014 - October 2018
Department of Psychological Methods
Supervisors: Prof. Dr. Denny Borsboom and Dr. Mijke Rhemtulla
Title dissertation: Interpreting psychometric models
Digital copy of dissertation: <http://thesiscommons.org/x6a7s/>

Visiting Scholar 2017, 2018
Two visits (6 months and 2 months) to work with Dr. Mijke Rhemtulla
Quantitative Psychology Department at the University of California, Davis

Teaching and Supervision

Fundamentals of Psychology 2019, 2020, 2021
Second-year bachelor's course in Psychology (300 - 550 students)
Lecturer and coordinator of the course

Fundamentals of Methodology 2015, 2016, 2017, 2018, 2019
Third-year bachelor's course in Psychology (20-40 students)
Lecturer and coordinator of the course

Master Pieces of Methodological Literature 2016
Third-year bachelor's course in Psychology (8 students)
Co-taught and coordinated with Lisa D. Wijsen

Supervisor in bachelor's and master's theses 2015, 2016, 2020
Total of 12 bachelor's theses and 2 Research Master's theses.

Guest lecture on Formative Models 2015
Structural Equation Modeling

	Master's course in the Research Master Psychology	
	Teaching Assistant <i>Structural Equation Modeling</i>	2015
	Master's course in the Research Master Psychology	
	Teaching Assistant <i>Multivariate Analyses</i>	2014
	Master's course in the Research Master Psychology	
Committee work	Member of committee that reformed education of the 2nd year of the Bachelor Psychology at the University of Amsterdam	2020
	Member of the Research Master selection committee at the University of Amsterdam	2020
Other	Methodology Shop University of Amsterdam Providing free statistical and methodological advice to students for their research projects (two hours a week).	2013 - 2014
	Research Assistant supervised by H.C.M. Vorst, University of Amsterdam Developing norms for the SchoolVragenLijst (SVL) and SAQI (tests to measure the attitude towards school for children at primary and secondary school).	2012 - 2014
HONORS & AWARDS	Postdoctoral Fellowship Invited to be a Postdoctoral Fellow in the Center for Philosophy of Science, University of Pittsburgh, for the academic year 2020-21.	January 2020
	Participant; Summer Seminar in Philosophy of Statistics 15-day seminar with 15 selected participants Virginia Tech University Organized by Prof. Deborah Mayo and Prof. Aris Spanos	July/August 2019
	Ph.D. degree awarded with the honor cum laude (top 5%).	June 2019
	Individual travel grant from the Amsterdam University Fund (€600,-) Used to visit the quantitative psychology department of the University of California, Davis.	2016
	Master thesis prize of Psychology (€250,-) Title: On the identity of variables: An intensional approach in understanding the latent variable model.	January 2015
OUTPUT	<i>First-author publications:</i> van Bork, R., Rhemtulla, M., Waldorp, L., Kruis, J., Rezvanifar, S., & Borsboom, D. (2019). Latent variable models and networks: Statistical equivalence and testa-	

- bility. *Multivariate Behavioral Research*, doi: 10.1080/00273171.2019.1672515
- van Bork, R., Grasman, R. P. P. P., & Waldorp, L. J. (2018). Unidimensional factor models imply weaker partial correlations than zero-order correlations. *Psychometrika*, *83*, 443–452.
- van Bork, R., Epskamp, S., Rhemtulla, M., Borsboom, D., & van der Maas, H. L. J. (2017). What is the p -factor of psychopathology? Some risks of general factor modeling. *Theory & Psychology*, *27*, 759 – 773.
- van Bork, R., Wijsen, L. D. (shared main authorship), & Rhemtulla, M. (2017). Toward a causal interpretation of the common factor model. *Disputatio*, *9*, 581 – 601.
- van Bork, R., Rhemtulla, M., & Borsboom, D. (2016). Composites can be causal too. *European Journal of Personality*, *30*, 307 – 308. doi: 10.1002/per.2060
- Co-author publications:*
- van Borkulo, C. D., **van Bork, R.**, Boschloo, L., Kossakowski, J. L., Tio, P., Schoevers, R. A., Borsboom, D., & Waldorp, L. J. (accepted). Comparing network structures on three aspects: A permutation test. Accepted for publication in *Psychological Methods*. preprint: <https://www.researchgate.net/publication/314750838>
- Borsboom, D., Deserno, M. K., Rhemtulla, M., Epskamp, S., Fried, E. I., McNally, R. J., Donald J. Robinaugh, D.J., Perugini, M., Dalege, J., Costantini, G., Isvoranu, A., 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), 1-18. doi: 10.1038/s43586-021-00055-w
- Deserno, M. K., Borsboom, D., Begeer, S., **van Bork, R.**, & Geurts, H. (2020). Highways to happiness for ASD adults? Perceived causal relations among clinicians. *PLoS ONE*, *15*(12): e0243298. doi: 10.1371/journal.pone.0243298
- Rhemtulla, M., **van Bork, R.**, & Borsboom, D. (2019). Worse than measurement error: Consequences of inappropriate latent variable measurement models. *Psychological Methods*, *25*(1), 30 – 45. doi: 10.1037/met0000220
- Bernstein, E. E., Kleiman, E. M., **van Bork, R.**, Moriarity, D. P., Giollabhui, N. M., McNally, R. J., Abramson, L. Y., & Alloy, L. B. (2019). Unique and predictive relationships between components of cognitive vulnerability and symptoms of depression. *Depression and Anxiety*, *36*, 950 – 959.
- Marsman, M., Borsboom, D., Kruis, J., Epskamp, S., **van Bork, R.**, Waldorp, L. J., ... & Maris, G. (2017). An introduction to network psychometrics: Relating Ising network models to item response theory models. *Multivariate Behavioral Research*, doi: 10.1080/00273171.2017.1379379.
- Rhemtulla, M., Borsboom, D., & **van Bork, R.** (2017). How to Measure Nothing. *Measurement: Interdisciplinary Research and Perspectives*, *15*, 95 – 97.
- Rhemtulla, M., **van Bork, R.**, & Borsboom, D. (2015). Calling models with causal indicators measurement models implies more than they can deliver. *Measurement*, *13*, 59 – 62.

Open Science Collaboration (2015). Estimating the reproducibility of Psychological science. *Science*, *349* (6251). doi: 10.1126/science.aac4716

Langley, D. J., Wijn, R., Epskamp, S., & **van Bork, R.** (2015). Should I get that jab? Exploring influence to encourage vaccination via online social media. *ECIS 2015 Research-in-Progress Papers*, Paper 64.

Submitted:

Haslbeck, J., & **van Bork, R.** (preprint). Estimating the number of factors in exploratory factor analysis via out-of-sample prediction errors. doi: 10.31234/osf.io/qktsd
preprint: <https://psyarxiv.com/qktsd>

van Bork, R., Rhemtulla, M., Sijtsma, K., & Borsboom, D. (preprint).
A causal theory of error scores. doi: 10.31234/osf.io/h35sa
preprint: <https://psyarxiv.com/h35sa/>

van Bork, R., Marsman, M., Rhemtulla, M., Epskamp, S., Kruis, J., & Borsboom, D. (preprint). Common effect models: Positive or negative manifold? doi: 10.31234/osf.io/xs4cy
preprint: <https://psyarxiv.com/xs4cy>

Rhemtulla, M., **van Bork, R.**, Cramer, A. O. J. (preprint). Cross-lagged network models.
preprint: <https://osf.io/r24q6/>

Contributions to books:

Dablander, F. & **van Bork, R.** (forthcoming) Causal inference. In A. Isvoranu, S. Epskamp, L. Waldorp & D. Borsboom (Eds.) *Network psychometrics with R: A guide for behavioral and social scientists*. March 11, 2022 Forthcoming by Routledge.

van Bork, R., & Cramer, A. O. J. (2017). Sample size. *SAGE Encyclopedia of Abnormal and Clinical Psychology*.

van Bork, R., & Cramer, A. O. J. (2017). Sample selection. *SAGE Encyclopedia of Abnormal and Clinical Psychology*.

Cramer, A. O. J., & **van Bork, R.** (2017). Internal validity. *SAGE Encyclopedia of Abnormal and Clinical Psychology*.

van Bork, R., van Borkulo, C. D. (shared main authorship), Waldorp, L. J., Cramer, A. O. J., & Borsboom, D. (2018). Network models for clinical psychology. In John T. Wixted (Ed.) *The Stevens' Handbook of Experimental Psychology and Cognitive Neuroscience* (Fourth Ed). Hoboken, NJ: John Wiley & Sons.

Wijsen, L. D., **van Bork, R.**, Haig, B. D., & Borsboom, D. Reflective, formative and network models: Causal interpretations of three different psychometric models. (Bookchapter in *The SAGE Handbook of Theoretical Psychology*)

Conference presentations:

- van Bork, R., Romeijn, J. W. (2021) Psychometric models: Statistics and interpretation. Presentation for the 27th Biennial Meeting of the Philosophy of Science Association (PSA), Baltimore, November 2021.
- van Bork, R., Rhemtulla, M., Sijtsma, K., & Borsboom, D. (2019) Turning models upside down: A causal theory of error scores. Presentation for the 84th Annual Meeting of the Psychometric Society (IMPS), Santiago (Chile), July 2019.
- van Bork, R. (2019) Networks and latent variables: Two frameworks for understanding psychopathology. Presentation for the 50th Annual Meeting of the Society of Psychotherapy Research (SPR), Buenos Aires, July 2019.
- van Bork, R., Rhemtulla, M., & Borsboom, D. (2015) Simplicity of networks and factor models. Presentation for the 30th Annual Convention of the Association for Psychological Science (APS), San Francisco, May 2018.
- van Bork, R., Rhemtulla, M., & Borsboom, D. (2015) Model simplicity of networks and latent variable models. Presentation for the 82th Annual Meeting of the Psychometric Society (IMPS), Zurich, July 2017.
- van Bork, R., Rhemtulla, M., Waldorp, L. J., & Borsboom, D. (2016) Distinguishing latent variable models and network models. Presentation for the 28th Annual Convention of the Association for Psychological Science (APS), Chicago, May 2016.
- van Bork, R., Rhemtulla, M., & Borsboom, D. (2015) Latent variable and network model implications for partial correlation structures. Presentation for the 80th Annual Meeting of the Psychometric Society (IMPS), Beijing, July 2015.

Invited Talks:

- Talk in an invited session organized by Derek Briggs, at National Council on Measurement in Education (NCME) Session title: “Lessons about the modeling and measurement of human abilities”, May 2021.
- Talk at joint quantitative brownbag of The Ohio State University, University of Maryland, University of North Carolina at Chapel Hill, and Notre Dame University, April 2021.
- Talk for the Department of Psychology’s Community for Advanced Methodological Learning (CAMEL), at Carnegie Mellon, Pittsburgh, April 2021.
- Talk for the Center of Philosophy of Science, Pittsburgh, March 2021.
- Talk at Donders Discussions, Nijmegen, October 2018.
- Talk at ISOQOL-NL (International Society for Quality of Life Research, Netherlands), Amsterdam, September 2017.
- Talk at APES - Philosophy of Science Seminar, Amsterdam, September 2016.

Organized Symposia:

Co-organizer together with Elay Schech of the symposium ‘*Current debates on statistical modeling and inference.*’ Symposium at the 27th Biennial Meeting of the Philosophy of Science Association (PSA), Baltimore, November 2021.

Chair and organizer of the symposium ‘*Theory and assumptions underlying psychometric practice.*’ Symposium at the 84th Annual Meeting of the Psychometric Society (IMPS), Santiago (Chile), July 2019.

Organizer of the symposium ‘*New developments in network psychometrics.*’ Symposium at the 80th Annual Meeting of the Psychometric Society (IMPS), Beijing, July 2015.

Workshops:

Workshop on ‘Causality in Network Models’, as part of:

- the Psychological Networks Amsterdam Summer School 2017
- the Psychological Networks Amsterdam Winter School 2017
- the Psychological Networks Amsterdam Summer School 2018

EDUCATION

Master of Science, Psychological Methods (cum laude, GPA : 8.83/A) 2013 - 2014
University of Amsterdam, graduated in 2014
Elective course at the Institute for Logic, Language and Computation.

Bachelor of Science, Psychology (cum laude) 2009 - 2013
University of Amsterdam, graduated in 2013
Concentration: Psychological Methods and Social Psychology
Minor: Philosophy of Language, Logic and Philosophy of Science (cum laude, 30 EC)
Complemented with courses in philosophy and philosophy of science as part of the honors program.