
DENNY BORSBOOM

CURRICULUM VITAE

1. PERSONAL INFORMATION & WORK EXPERIENCE

PERSONAL INFORMATION:

Name: Denny Borsboom
Born: November 9, 1973
Work Address: Psychological Methods
Department of Psychology
Faculty of Social and Behavioral Sciences
University of Amsterdam
1018 WB Amsterdam
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CURRENT POSITION:

2013-present *Professor* (1.0 fte, tenured term) at the Department of Psychology of the University of Amsterdam.
Summary of activities. In the educational programme of the Department of Psychology, I teach an undergraduate course (Foundations of Psychology) and participate in two Bachelor courses (Introduction to Measurement and Network Analysis). In addition I have taught Research Master courses (Philosophy of Psychology) and postdoctoral courses (What is Psychometrics?). In organizational work, I have been involved in developing the curriculum at various levels, from Bachelor to postdoctoral programmes, and have overseen the implementation of a tutor group system in the second year of our curriculum. Service to the field has included membership of the Psychometric Society Board of Trustees; Expert Panel membership for the Flemish Organization for Scientific Research (FWO); and Board membership for the Interuniversity Graduate School of Psychometrics and Sociometrics (IOPS). Most of my current research is devoted to the *Psychosystems project* (<http://www.psychosystems.org>), which gravitates around the development of new methodologies for psychological research using complex systems theory and network models.

EDUCATION:

- 1998-2003 University of Amsterdam
Ph.D. in Psychology
Dissertation project: 'Conceptual issues in psychological measurement'. *Supervisors:* Prof. dr. G. J. Mellenbergh and Prof. dr. J. van Heerden
Honors: Cum laude
- 1992-1998 M.A. in Psychology
Specialization: Psychological Methods
Honors: Cum laude

PAST POSITIONS & TEACHING EXPERIENCE:

- 2008-2013 University of Amsterdam
Associate Professor. Courses: Research Methods, Network Analysis.
- 2003-2008 *Assistant Professor.* Courses: Research Methods, Philosophy of Science, Philosophy of Psychology.
- 2000-2001 *Lecturer.* Course: Statistics.
- 2000-2002 *Teaching Assistant.* Produced educational material in an attempt to introduce psychology into the Dutch high school program.
- 1999-2000 *Lecturer.* Course: Statistics.
- 1996-1998 *Teaching Assistant.* First-year student practicals (“practicumgroepbegeleider”).

PH.D. SUPERVISION:

- 2016-present *A network approach to psychosis.* Ph. D. student: Adela Isvoranu (joint supervision with Dr. Jim van Os).
- 2016-present *From heterogeneous insomnia to homogeneous subtypes.* Ph. D. student: Tessa Blanken (primary supervisor: Dr. Eus van Someren).
- 2015-present *Extensions of network models for time series.* Ph. D. student: Jonas Haslbeck (Primary supervisor: Dr. Lourens Waldorp).
- 2015-present *The history of psychometrics.* Ph. D. student: Lisa Wijzen (joint supervision with Dr. Willem Heiser).
- 2014-present *Application of model selection principles to distinguish network and latent variable models of psychological constructs.* Ph. D. student: Riet van Bork (joint supervision with Dr. Mijke Rhemtulla)
- 2014-present *Network models for attitudes.* Ph. D. student: Jonas Dalege (joint supervision with Dr. Han van der Maas and Dr. Frenk van Harreveld).
- 2012-present *A network approach to mood disorders.* Ph.D. student: Claudia van Borkulo, Groningen University (primary supervisor dr. R. A. Schoevers).
- 2012-present *Network psychometrics.* Ph.D. Student: Sacha Epskamp

2011-present	<i>Stochastic networks for affective processes</i> . Ph.D. Student: Laura Bringmann, K.U. Leuven (primary supervisor: dr. F. Tuerlinckx).
2008-2014	<i>Statistical models for reductive theories</i> . Ph.D. Student: Rogier Kievit, University of Amsterdam. (<i>Cum laude</i>).
2008-2014	<i>Genetics and psychometrics: Exploring the phenotypic structure of psychological constructs</i> . Ph.D. Student: Sanja Franic, Free University of Amsterdam (primary supervision: dr. D.I. Boomsma).
2008-2013	<i>The conceptual and empirical analysis of diagnostic systems</i> . Ph.D. Student: Angélique Cramer, University of Amsterdam. (<i>Cum laude</i>).
2005-2011	<i>Admissible statistics and latent variable theory</i> . Ph.D. Student: Annemarie Zand Scholten, University of Amsterdam.

ORGANIZATIONAL WORK AND SERVICE TO THE FIELD:

2017	Member of the NWO Replication Research Funding committee.
2016	Member of the NWO Vidi committee.
2014-present	Member of the NWO Complexity committee.
2012-2014	Expert panel member for the Flemish Organization for Scientific research (FWO).
2012	Presided the Committee for Restructuring Year 2 of the Psychology Bachelor at the University of Amsterdam.
2011	Organized the Invited Symposium “Validity” for the International Meeting of the Psychometric Society, Hong Kong.
2011	Organized the Invited Symposium “Network analysis” for the Association for Psychological Science, Washington D.C.
2010-2013	Member of the Board of Trustees of the Psychometric Society
2010-2012	Member of the Program Committee for the International Meetings of the Psychometric Society
2009-present	Member of the Board of the Interuniversity Graduate School of Psychometrics and Sociometrics (IOPS).
2009	Co-organizer of the KNAW-symposium “The effect of causality”
2004-2005	Member of the Daily Governing Board of the Psychological Methods Group, University of Amsterdam.
2004	Co-organizer of the Amsterdam Workshop on Model Selection.
2003-2009	Vice-representative for the University of Amsterdam on the Board of the Interuniversity Graduate School of Psychometrics and Sociometrics (IOPS).
2003-2004	Member of the Bachelor-Master Advisory Committee of the Department of Psychology, University of Amsterdam.
2000-2002	PhD representative on the Board of the Interuniversity Graduate School of Psychometrics and Sociometrics (IOPS).
2000	Co-organizer of the Public Conference on Psychology at the University of Amsterdam.
1998-2000	Vice-representative of PhD students of the Interuniversity Graduate School of Psychometrics and Sociometrics (IOPS).

1995 Co-founder of the Methodology Helpdesk (“Methodologiewinkel”) of the Department of Psychology, University of Amsterdam.

EDITORIAL AND REVIEWING WORK:

2013-present Editorial Board, *European Journal of Personality*
2012-2013 Editorial Board, *Archives of Scientific Psychology*
2010-present Editorial Board, *Frontiers of Quantitative Psychology*
2009-present Editorial Board, *Educational Measurement: Issues and Practice*
2008-present Editorial Board, *Measurement Science Review*
2007-2009 Associate Editor, *Netherlands Journal of Psychology*
2003-present Ad hoc reviewer, *Psychometrika*, *Archives of General Psychiatry*, *Behavioral and Brain Sciences*, *Psychological Review*, *American Psychologist*, *Journal of Theoretical Biology*, *Statistica Neerlandica*, *Psychonomic Bulletin & Review*, *Journal of Experimental Psychology*, *Developmental Psychology*, *Educational Measurement*, *Behavior Genetics*, *Psychological Methods*, *Psychological Medicine*, *Theory and Psychology*, *Journal of Personality and Social Psychology*.

2009 Member, NWO-open competition preselection committee
2008 Ad hoc member, NWO-Veni committee
2007-2009 Referee, *Social Sciences and Humanities Research Council of Canada*, *Research Council K.U. Leuven*, *Natural Sciences and Engineering Council of Canada*, *Swiss National Science Foundation*, *National Science Foundation*.

GRANTS:

2016 NWO Research Talent grant. Ph.D. project: A network approach to psychosis, by Adela Isvoranu.
2015 ERC Consolidator grant for the project “Psychosystems: Consolidating Network Approached to Psychopathology”
2015 IOPS Graduate School Programme grant. Ph. D. project: “The history of psychometrics”, by Lisa Wijsen
2012 NWO Research Talent grant. Ph.D. project: Network Psychometrics, by Sacha Epskamp.
2011 NWO-Meerwaarde grant (co-applicant; primary applicant Dr. Marija Maric)
2007 NWO-grant for innovational research (“Vidi-scheme”)
2006 ICTO-grant for developing a Wiki-application for educational use
2006 NWO-grant for a visit of Dr. B. Haig to the University of Amsterdam
2006 NWO-open competition grant, Ph.D. project: “Admissible statistics and latent variable theory”, by Annemarie Zand Scholten
2005 NWO-grant for a visit of Dr. K. Markus to the University of Amsterdam
2003 NWO-grant for innovational research (“Veni-scheme”)
2001 NWO-grant for visiting the Max Planck Institute in Berlin

AWARDS:

- 2014 Samuel J. Messick Award awarded jointly by the Educational Testing Service (ETS) and the International Language Testing Association (ILTA) for my psychometric work on validity
- 2014 Christiaan Hamaker Award for excellence in teaching, Department of Psychology, University of Amsterdam
- 2007 Nico H. Frijda Award for the best educational achievement at the Department of Psychology, University of Amsterdam (co-receiver, with J.M. Wicherts, for our Methods Course)
- 2004 Erskine fellowship from the University of Canterbury, New Zealand
- 2004 Psychometric Society Dissertation Award
- 1998 Nico H. Frijda Award for the best educational achievement at the Department of Psychology, University of Amsterdam (co-receiver; for renewing the educational material in the propedeutic curriculum)
- 1996 Nico H. Frijda Award for the best educational achievement at the Department of Psychology, University of Amsterdam (co-receiver; for developing a Methodology Helpdesk).

MEMBERSHIPS:

Interuniversity Graduate School of Psychometrics and Sociometrics (IOPS)
Psychometric Society
Association for Psychological Science

2. PUBLICATIONS

<http://sites.google.com/site/borsboomdenny/papers>

Summary: The content of my work ranges from theoretical psychometrics to substantive psychology. I have published in leading journals in theoretical psychology (*Psychological Review*), psychometrics (*Psychometrika*), clinical psychology (*Annual Review of Clinical Psychology*), and behavioral science (*Behavioral and Brain Sciences*); in addition, my work has been featured in various more specialized journals in fields like psychiatry, philosophy of science, personality psychology, and clinical psychology. My dissertation was published as a monograph by *Cambridge University Press*. According to Google Scholar (<http://scholar.google.com/citations?user=oaT6bCUAAAAJ&hl=en>), my papers and books have been cited 4600 times, with the best cited paper receiving 790 citations since 2004.

BOOKS:

1. Markus, K., & Borsboom, D. (2013). *Frontiers of validity theory: Measurement, causation, and meaning*. New York: Routledge.
2. Borsboom, D. (2005). *Measuring the mind: Conceptual issues in contemporary psychometrics*. Cambridge: Cambridge University Press.

PAPERS:

3. Borsboom, D., Rhemtulla, M., Cramer, A. O. J., van der Maas, H. L. J., Scheffer, M & Dolan, C. V. (2016). Kinds versus continua: A review of psychometric approaches to uncover the structure of psychiatric constructs. *Psychological Medicine*, *46*, 1-13.
4. Borsboom, D. & Wijsen, L. D. (2016). Frankenstein's validity monster: The value of keeping politics and science separated. *Assessment in Education: Principles, Policy & Practice*, *23*, 281-283.
5. Boschloo, L., van Borkulo, C. D., Borsboom, D., & Schoevers, R. A. (2016). Letter to the editor: A prospective study on how symptoms in a network predict the onset of depression. *Psychotherapy and psychosomatics*, *85*, 183-184.
6. Boschloo, L., Schoevers, R. A., van Borkulo, C. D., Borsboom, D., & Oldehinkel, A. J. (2016). The Network Structure of Psychopathology in a Community Sample of Preadolescents. *Journal of Abnormal Psychology*. doi: 10.1037/abn0000150
7. Bringmann, L. F., Hamaker, E. L., Vigo, D. E., Aubert, A., Borsboom, D., & Tuerlinckx, F. (in press). Changing Dynamics: Time-varying autoregressive models using generalized additive modeling. *Psychological Methods*. doi:10.1037/met0000085
8. Bringmann, L. F., Madeline, L. P., Vissers, N., Ceulemans, E., Borsboom, D., Vanpaemel, W., Tuerlinckx, F. & Kuppens, P. (2016). Assessing temporal emotion dynamics using networks. *Assessment*, *1073191116645909*, 1-11.
9. Cramer, A. O. J., van Borkulo, C. D., Giltay, E. J., van der Maas, H. L. J., Kendler, K. S., Scheffer, M., & Borsboom, D. (2016). Major depression as a complex dynamical system. *PLoS ONE*.

10. Costantini, G., Richetin, J., Borsboom, D., Fried, E. I., Rhemtulla, M.T., & Perugini, M. (2016). Development of indirect measures of conscientiousness: Combining a facets approach and network analysis. *European Journal of Personality, 29*, 548-567.
11. Dalege, J., Borsboom, D., van Harreveld, F., van den Berg, H., Conner, M., & van der Maas, H. L. J. (2016). Toward a formalized account of attitudes: the Causal Attitude Network (CAN) model. *Psychological Review, 123*, 2-22. DOI: 10.1037/a0039802
12. Deserno, M. K., Borsboom, D., Begeer, S., & Geurts, H. M. (2016). Multicausal systems ask for multicausal approaches: A network perspective on subjective well-being in individuals with autism spectrum disorder. *Autism, 1*-12.
13. Fried, E. I., van Borkulo, C. D., Epskamp, S., Schoevers, R. A., Tuerlinckx, F., & Borsboom, D. (2016). Measuring depression over time ... or not? Lack of unidimensionality and longitudinal measurement invariance in four common rating scales of depression. *Psychological Assessment*. Advance Online Publication.
14. Fried, E. I., van Borkulo, C. D., Cramer, A. O. J., Lynn, B., Schoevers, R. A., Borsboom, D. (2016). Mental disorders as networks of problems: a review of recent insights. *Social Psychiatry and Psychiatric Epidemiology*. Advance Online Publication.
15. Fried, E. I., Epskamp, S., Nesse, R. M, Tuerlinckx, F., & Borsboom, D. (2016). What are 'good' depression symptoms? Comparing the centrality of DSM and non-DSM symptoms of depression in a network analysis. *Journal of Affective Disorders, 189*, 314-320.
16. Isvoranu, A. M., van Borkulo, C. D., Boyette, L. L., Borsboom, D., Wigman, H. J. T. W., Vinkers, C. H., & Group Investigators. (2016). A network approach to psychosis: Pathways between childhood trauma and psychotic symptoms. *Schizophrenia Bulletin*. doi: 10.1093/schbul/sbw055.
17. Isvoranu, A. M., Borsboom, D., van Os, J. & Guloksuz, S. (2016). A network approach to environmental impact in psychotic disorder: brief theoretical framework. *Schizophrenia Bulletin*.
18. Kossakowski, J. J., Epskamp, S., Kieffer, J. M., Borkulo, C. D. van, Rhemtulla, M., & Borsboom, D. (2016). The application of a network approach to health-related quality of life: introducing a new method for assessing HRQoL in healthy adults and cancer patients. *Quality of Life Research, 25*, 781-792.
19. Rhemtulla, M., Fried, E. I., Aggen, S. H., Tuerlinckx, F., Kendler, K. S., Borsboom, D. (2016). Network analysis of substance abuse and dependence symptoms. *Drug and Alcohol Dependence, 161*, 230-237.
20. Tio, P., Epskamp, S., Noordhof, A., & Borsboom, D. (2016). Mapping the manuals of madness: Comparing the ICD-10 and DSM-IV-TR using a network approach. *International Journal of Methods in Psychiatric Research*.
21. van Borkulo, C. D., Borsboom, & Schoevers, R.A. (2016). Group-Level Symptom Networks in Depression — Reply. *JAMA Psychiatry, 73* (4). doi: 10.1001/jamapsychiatry.2015.3157.
22. Van Bork, R., Rhemtulla, M. T., & Borsboom, D. (2016). Composites can be causal too. *European Journal of Personality, 30*, 307-308.
23. Wichers, M, Groot, P, Simons, C. J. P., Peeters, F., Psychosystems group, ESM Group & ESW Group. (2016) Critical slowing down as a personalized early warning signal for depression. *Psychotherapy and Psychosomatics, 85*, 114–116.
24. Borkulo, C.D. van, Boschloo, L., Borsboom, D., Penninx, B.W.J.H., Waldorp, L.J. & Schoevers, R.A. (2015). Association of symptom network structure with the course of longitudinal depression. *JAMA Psychiatry, 72*, 1219-1226. doi: 10.1001/jamapsychiatry.2015.2079

25. Borsboom, D. (2015). What is causal about individual differences? : A comment on Weinberger. *Theory and Psychology*, 25, 362-368. doi: 10.1177/0959354315587784
26. Borsboom, D. (2015). Zen and the art of validity theory. *Assessment in Education: Principles, Policy, and Practice*. doi: 10.1080/0969594X.2015.1073479
27. Borsboom, D. & Molenaar, D. (2015). Psychometrics. In J.D. Wright (Ed.), *International encyclopedia of the social & behavioral sciences*. - 2nd ed (pp. 418-422). Amsterdam: Elsevier.
28. Boschloo, L., Borkulo, C.D. van, Rhemtulla, M., Keyes, K.M., Borsboom, D. & Schoevers, R.A. (2015). The network structure of symptoms of the Diagnostic and Statistical Manual of Mental Disorders. *PLoS One*, 10: e0137621. doi: 10.1371/journal.pone.0137621
29. Bringmann, L.F., Lemmens, L.H.J.M., Huibers, M.J.H., Borsboom, D. & Tuerlinckx, F. (2015). Revealing the dynamic network structure of the Beck Depression Inventory-II. *Psychological Medicine*, 45, 747-757. doi: 10.1017/S0033291714001809
30. Costantini, G., Richetin, J., Borsboom, D., Fried, E.I., Rhemtulla, M. & Perugini, M. (2015). Development of indirect measures of conscientiousness: Combining a facets approach and network analysis. *European Journal of Personality*, 5, 548-567. doi: 10.1002/per.2014
31. Costantini, G., Epskamp, S., Borsboom, D., Perugini, M., Mottus, R., Waldorp, L.J. & Cramer, A.O.J. (2015). State of the aRt personality research: A tutorial on network analysis of personality data in R. *Journal of Research in Personality*, 54, 13-29. doi: 10.1016/j.jrp.2014.07.003
32. Cramer, A. O. J., & Borsboom, D. (2015). Problems attract problems: A network perspective on mental disorders. In: Scott, R. A., & Kosslyn, S. *Emerging Trends in the Social and Behavioral Sciences: An Interdisciplinary, Searchable, and Linkable Resource*. New York: Wiley. DOI 10.1002/9781118900772
33. Dalege, J., Borsboom, D., Harreveld, F. van, Berg, H. van den, Conner, M. & Maas, H.L.J. van der (2015). Toward a formalized account of attitudes: the Causal Attitude Network (CAN) model. *Psychological Review*. doi: 10.1037/a0039802
34. Fried, E.I., Boschloo, L., Borkulo, C.D. van, Schoevers, R.A., Romeijn, J.W., Wichers, M., Jonge, P. de, Nesse, R.M., Tuerlinckx, F. & Borsboom, D. (2015). Commentary: "Consistent superiority of selective serotonin reuptake inhibitors over placebo in reducing depressed mood in patients with major depression". *Frontiers in Psychiatry*, 6:117. doi: 10.3389/fpsy.2015.00117
35. Fried, E.I., Bockting, C., Arjadi, R., Borsboom, D., Amshoff, M., Cramer, A.O.J., Epskamp, S., Tuerlinckx, F., Carr, D. & Stroebe, M. (2015). From loss to loneliness: The relationship between bereavement and depressive symptoms. *Journal of Abnormal Psychology*, 124, 256-265. doi: 10.1037/abn0000028
36. Kossakowski, J.J., Epskamp, S., Kieffer, J.M., Borkulo, C.D. van, Rhemtulla, M. & Borsboom, D. (2015). The application of a network approach to health-related quality of life (HRQoL): Introducing a new method for assessing HRQoL in healthy adults and cancer patients. *Quality of Life Research*. doi: 10.1007/s11136-015-1127-z
37. Nosek, B.A., Alter, G., Banks, G.C., Borsboom, D., Bowman, S.D., Breckler, S.J., Buck, S., Chambers, C.D., Chin, G., Christensen, G., Contestabile, M., Dafoe, A., Eich, E., Freese, J., Glennerster, R., Goroff, D., Green, D.P., Hesse, B., Humphreys, M., Ishiyama, J., Karlan, D., Kraut, A., Lupia, A., Mabry, P., Madon, T., Malhotra, N., Mayo-Wilson, E., McNutt, M., Miguel, E., Levy Paluck, E., Simonsohn, U., Soderberg, C., Spellman, B.A., Turitto, J., VandenBos, G., Vazire, S., Wagenmakers, E.J., Wilson, R. & Yarkoni, T. (2015). Promoting an open research culture. *Science*, 348 (6242), 1422-1425. doi: 10.1126/science.aab2374

38. Open Science Collaboration (2015). Estimating the reproducibility of psychological science. *Science*, 349: 6251. doi: 10.1126/science.aac4716
39. Rhemtulla, M., Bork, R. van & Borsboom, D. (2015). Calling models with causal indicators "measurement models" implies more than they can deliver. *Measurement*, 13, 59-62. doi: 10.1080/15366367.2015.1016343
40. Ruzzano, L., Borsboom, D. & Geurts, H.M. (2015). Repetitive behaviors in autism and obsessive-compulsive disorder: new perspectives from a network analysis. *Journal of Autism and Development Disorders*, 45, 192-202. doi: 10.1007/s10803-014-2204-9
41. Schmittmann, V.D., Jahfari, S., Borsboom, D., Savi, A.O. & Waldorp, L.J. (2015). Making large-scale networks from fMRI data. *PLoS One*, 10: e0129074. doi: 10.1371/journal.pone.0129074
42. Wagenmakers, E.-J., Wetzels, R., Borsboom, D., Kievit, R.A. & Maas, H.L.J. van der (2015). A skeptical eye on psi. In E. May & S.B. Marwaha (Eds.), *Extrasensory perception: Support, skepticism, and science* (pp. 153-176). Santa Barbara: Praeger.
43. Wigman, J.T.W., Os, J. van, Borsboom, D., Wardenaar, K.J., Epskamp, S., Klippel, A., Viechtbauer, W., Myin-Germeys, I. & Wichers, M. (2015). Exploring the underlying structure of mental disorders: cross-diagnostic differences and similarities from a network perspective using both a top-down and a bottom-up approach. *Psychological Medicine*, 45, 2375-2387. doi: 10.1017/S0033291715000331
44. Adolf, J., Schuurman, N. K., Borkenau, P., Borsboom, D., & Dolan, C. V. (2014). Measurement invariance within and between individuals: a distinct problem in testing the equivalence of intra- and inter-individual model structures. *Frontiers in Psychology*, 5, 883. doi:10.3389/fpsyg.2014.00883
45. Borkulo, C.D. van, Borsboom, D., Epskamp, S., Blanken, T.F., Boschloo, L., Schoevers, R.A. & Waldorp, L.J. (2014). A new method for constructing networks from binary data. *Scientific Reports*, 4:5918. doi: 10.1038/srep05918
46. Bringmann, L. F., Lemmens, L. H. J. M., Huibers, M. J. H., Borsboom, D., & Tuerlinckx, F. (2014). Revealing the dynamic network structure of the Beck Depression Inventory-II. *Psychological Medicine*. doi:10.1017/S0033291714001809
47. Costantini, G., Epskamp, S., Borsboom, D., Perugini, M., Mottus, R., Waldorp, L.J. & Cramer, A.O.J. (2014). State of the aRt personality research: A tutorial on network analysis of personality data in R. *Journal of Research in Personality*. doi: 10.1016/j.jrp.2014.07.003
48. Franić, S., Borsboom, D., Dolan, C.V. & Boomsma, D.I. (2014). The big five personality traits: psychological entities or statistical constructs? *Behavior Genetics*, 44 (6), 591-604. doi: 10.1007/s10519-013-9625-7
49. Franić, S., Dolan, C.V., Borsboom, D., Beijsterveldt, C.E.M. van & Boomsma, D.I. (2014). Three-and-a-half-factor model? The genetic and environmental structure of the CBCL/6–18 internalizing grouping. *Behavior Genetics*, 44 (3), 254-268. doi: 10.1007/s10519-013-9628-4
50. Franić, S., Dolan, C.V., Borsboom, D., Beijsterveldt, C.E.M. van & Boomsma, D.I. (2014). Erratum to: Three-and-a-Half-Factor Model? The Genetic and Environmental Structure of the CBCL/6–18 Internalizing Grouping. *Behavior Genetics*, 44, 269-269.
51. Fried, E., Tuerlinckx, F., & Borsboom, D. (2014). Mental health: More than neurobiology (Letter to the editor). *Nature*, 508, 458.
52. Groot, A.D. de, Wagenmakers, E.-J., Borsboom, D., Verhagen, A.J., Kievit, R.A., Bakker, M., Cramer, A.O.J., Matzke, D., Mellenbergh, G.J. & Maas, H.L.J. van der (2014). The meaning of "significance" for different types of research [translated and

- annotated version of the Dutch article (1956) by A.D. de Groot]. *Acta Psychologica*, 148, 188-194. doi: 10.1016/j.actpsy.2014.02.001
53. Leemput, I.A. van de, Wichers, M., Cramer, A.O.J., Borsboom, D., Tuerlinckx, F., Kuppens, P., Nes, E.H. van, Viechtbauer, W., Giltay, E.J., Aggen, S.H., Derom, C., Jacobs, N., Kendler, K.S., Maas, H.L.J. van der, Neale, M.C., Peeters, F., Thiery, E., Zachar, P. & Scheffer, M. (2014). Critical slowing down as early warning for the onset and termination of depression. *National Academy of Sciences. Proceedings*, 111 (1), 87-92. doi: 10.1073/pnas.1312114110
 54. Ruzzano, L., Borsboom, D., Geurts, H. M. (2014). A network analysis of repetitive behaviors in autism and obsessive compulsive disorder: a new perspective. *Journal of Autism and Developmental Disorders*. DOI: 10.1007/s10803-014-2204-9
 55. Van der Maas, H.L.J., Kan, K. -J., & Borsboom, D. (2014). Intelligence is what the intelligence test measures. Seriously. *Journal of Intelligence*, 2, 12–15.
 56. Wichers, M., Borsboom, D., Tuerlinckx, F., Kuppens, P., Viechtbauer, W., Van de Leemput, I., Kendler, K. S., & Scheffer, M. Reply to Bos and De Jonge: Between-subject data do provide first empirical support for critical slowing down in depression. (Letter to the editor). *Proceedings of the National Academy of Sciences*, doi: 10.1073/pnas.1323835111
 57. Borsboom, D., & Cramer, A. O. J. (2013). Networks: An integrative approach to the structure of psychopathology. *Annual Review of Clinical Psychology*, 9, 91-121.
 58. Franić, S., Dolan, C. V., Borsboom, D., Hudziak, J. J., van Beijsterveldt, C. E. M., & Boomsma, D. I. (2013). Can Genetics help Psychometrics? Improving Dimensionality Assessment through Genetic Factor Modeling. *Psychological Methods*, doi: 10.1037/a0032755.
 59. Borsboom, D., & Haig, B. D. (2013). How to practice Bayesian statistics outside the Bayesian church: What philosophy for Bayesian modeling? *British Journal of Mathematical and Statistical Psychology*, 66, 39-44.
 60. Borsboom, D., & Markus, K. A. (2013). Truth and evidence in validity theory. *Journal of Educational Measurement*, 50, 110-114.
 61. Franić, S., Dolan, C. V., Borsboom, D., van Beijsterveldt, C. E. M., & Boomsma, D. I. (2013). Three-and-a-Half-Factor Model? The Genetic and Environmental Structure of the CBCL/6-18 *Internalizing* grouping. *Behavior Genetics*. doi:10.1007/s10519-013-9628-4.
 62. Franić, S., Borsboom, D., Dolan, C. V., & Boomsma, D. I. (2013). The Big Five Personality Traits - Psychological Entities or Statistical Constructs? *Behavior Genetics*. doi: 10.1007/s10519-013-9625-7
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INVITED LECTURES & KEYNOTE SPEECHES:

Borsboom, D. (2016). Netwerkbenaderingen van psychopathologie [Network approaches to psychopathology]. Keynote lecture at the Spring Conference of the Dutch Association for Psychiatry [Nederlandse Vereniging voor Psychiatrie]. Maastricht, The Netherlands.

Borsboom, D. (2016). Network approaches to psychopathology: An overview. Keynote lecture at the Annual Research Meeting of the Experimental Psychopathology (EPP) Graduate School. Utrecht, The Netherlands.

Borsboom, D. (2016). Netwerkbenaderingen van psychopathologie [Network approaches to psychopathology]. Keynote lecture at the NVGzP-congres 'De veranderende wereld van de Gz- & Klinisch (neuro)psycholoog' [The changing world of health and clinical psychologists]. Bunnik, The Netherlands.

Borsboom, D. (2016). Netwerkbenaderingen van psychopathologie [Network approaches to psychopathology]. Keynote lecture at the Annual Research Meeting of the Amsterdam Medical Center (AMC). Amsterdam, The Netherlands.

Borsboom, D. (2016). Netwerkbenaderingen van psychopathologie [Network approaches to psychopathology]. Keynote lecture at the Arq Herfst symposium 'DSM-5: Nieuw, maar ook beter?' [DSM-5: New and better?]. Diemen, The Netherlands.

Borsboom, D. (2016). Network approaches to psychopathology. Invited lecture at the Workshop 'Causation in Medicine' at the University of Amsterdam. Amsterdam, The Netherlands.

Borsboom, D. (2016). Network approaches to psychopathology. Invited lecture for the Methusalem Program "Asthenees" and KU Leuven Center for Excellence on Generalization in Health and Psychopathology. Leuven, Belgium.

The theoretical status of mental disorders: A network perspective. Keynote speech at the Leuven Philosophy of Medicine Conference: Pathologizing Mind and Body. Leuven, Belgium (2015).

Mental disorders, network models, and dynamical systems. Keynote speech at the International Conference on Psychometric Nosology. Copenhagen, Denmark (2015).

Netwerkbenaderingen van psychopathologie [Network approaches to psychopathology]. Keynote speech at the Symposium 15 Jaar Gedachten Uitpluizen. Bunnik, The Netherlands (2015).

Netwerkbenaderingen van psychopathologie [Network approaches to psychopathology]. Keynote speech at the 11th Phrenos Psychosis Conference. Zwolle, The Netherlands (2015).

A science in search of its subject: How psychometrics has shaped, strengthened, and shortchanged psychological science. Keynote speech at the 29th Boulder Conference on the History and Philosophy of Science, Boulder, U.S.A. (2013).

Network analysis: An integrative approach to research and treatment in psychology. Keynote speech at the 1st EFPSA conference, Amsterdam, The Netherlands (2013).

Rethinking mental disorders: A network approach. Invited lecture at the Workshop Philosophy and Psychiatry, Nijmegen, The Netherlands (2013).

Network analysis as an alternative approach to psychometrics. Invited lecture at the University of Boulder, U.S.A. (2013).

Network analysis: An integrative approach to research and treatment in psychopathology. Invited lecture at Annual Convention of the Association for Psychological Science (APS), Washington, U.S.A. (2013).

Taxons or continua? A network perspective. Invited lecture at the symposium “Paul Meehl’s Legacy”, Annual Convention of the Association for Psychological Science (APS), Washington, U.S.A. (2013).

The small world of psychopathology: An alternative paradigm. Keynote at the Meeting of the Dutch Association for Psychotrauma [Nederlandse Vereniging voor Psychotrauma], Amersfoort (2013).

The structure of human personality: A network approach. New Directions Keynote at the European Conference on Personality, Trieste, Italy (2012).

Psychosystems. Keynote speech at the NWO Complexity Programme Winterschool, Zandvoort, The Netherlands (2012).

The nature of psychopathology: A network approach. Invited lecture at the University of Ghent, Belgium (2012).

A problem never walks alone: Network models for psychopathology. Invited lecture at Groningen University (2012).

Psychosystems: An alternative approach to psychopathology research. Invited lecture at the University of Edinburgh, United Kingdom (2011).

Psychosystems: A network approach to psychopathology. Invited lecture at Maastricht University, Maastricht, The Netherlands (2011).

Rethinking DSM-Categories: A network approach. Invited lecture at the Annual Convention of the Association for Psychological Science (APS), Washington, U.S.A. (2011).

Psychosystems: A network approach to psychopathology. Invited lecture at the National Institute of Mental Health (NIMH), Washington, U.S.A. (2011).

Perspectives on diagnostic systems. Invited lecture for the Clinical Science Forum at the Annual Convention of the Association for Psychological Science (APS), Washington, U.S.A. (2011).

Constructs as causal systems: A network approach to psychometrics. Invited symposium lecture at the Annual Convention of the Association for Psychological Science (APS), Washington, U.S.A. (2011).

Psychosystems: A network approach to mental disorders. Invited lecture at the Erasmus University Rotterdam, The Netherlands (2010).

Symptoms, systems, and disorders. Invited lecture at Humboldt University Berlin, Germany (2010).

Psychosystems: An alternative approach to psychometric theory. Keynote speech at the Rasch Conference, Denmark (2010).

The unhappy marriage between psychology and psychometrics. Invited lecture for the Langeveldcolloquium, Utrecht, The Netherlands (2009).

Psychometric perspectives on diagnostic systems. Invited lecture for the Experimental Psychopathology Research School, Heeze, The Netherlands (2009).

Towers, thermometers, and spaghetti: Psychometric perspectives on diagnostic systems. Invited lecture at the Netherlands Cancer Institute, Amsterdam, The Netherlands (2008).

The end of construct validity. Invited lecture at the 9th Annual Maryland Assessment Conference at the University of Maryland, U.S.A. (2008).

Measurement invariance versus selection invariance. Invited lecture at Tilburg University, The Netherlands (2008).

Causal systems and psychometric theory. Invited lecture at the TU Eindhoven, The Netherlands (2007).

When will philosophers of science turn to psychology? Invited lecture for the Dutch Association for the Philosophy of Science (NVWF) in Leusden, The Netherlands (2007).

Psychometric properties of reflective and formative measurement models. Invited lecture for the Workgroup for Research on Health Measurement (WOG) symposium 'Psychometrics versus clinimetrics?' in Utrecht, The Netherlands. (2007).

Advising on test validity. Invited lecture at the Royal Netherlands Academy of Arts and Sciences (KNAW) workshop 'Advising on research methods' in Amsterdam, The Netherlands (2007).

Causal systems and psychometric theory. Invited lecture at the City University of New York, U.S.A. (2007).

Validity. Invited lecture at the University of Arizona, U.S.A. (2006).

The concept of validity. Invited lecture at the International Psychometric Society Meeting in Tilburg, The Netherlands (2005).

Validity. Invited lecture at the University of Canterbury, New Zealand (2004).

Validity. Invited lecture at the University of Groningen, The Netherlands (2003).

The problem of validity. Invited lecture at the University of Münster, Germany (2003).
The concept of psychological measurement. Invited lecture at the University of Illinois at Chicago, U.S.A. (2003).

Conceptual issues in psychological measurement. Invited lecture at the 13th International IOPS conference in Amsterdam, The Netherlands (2003).