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# DENNY BORSBOOM

## CURRICULUM VITAE

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### 1. PERSONAL INFORMATION & WORK EXPERIENCE

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#### 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  
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1018 WT 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.* Since 2018, I have been Programme Leader of the [Psychological Methods Group](#) at the Department of Psychology at the University of Amsterdam. I have been involved in developing the psychology 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. With respect to education, I have taught many different courses on methodological, psychometric, and philosophical topics, ranging from undergraduate (Foundations of Psychology) to postdoctoral courses (What is Psychometrics?). 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. 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).

## 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:

- 2017-present *Resilience: A complexity perspective.* Ph. D. student: Gaby Lunansky (joint supervision with Dr. Claudia van Borkulo).
- 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 Wijsen (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).
- 2012-2017 *A network approach to mood disorders.* Ph.D. student: Claudia van Borkulo, Groningen University (primary supervisor dr. R.

	A. Schoevers).
2012-2016	<i>Network psychometrics</i> . Ph.D. Student: Sacha Epskamp
2011-2016	<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.
2014-2017	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”
2009	Member, NWO-open competition preselection committee
2008	Ad hoc member, NWO-Veni committee
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:

- 2018-present Editorial Board, *Clinical Psychological Science*
- 2018-present Editorial Board, *Journal of Abnormal Psychology*
- 2017-present Editorial Board, *Psychological Medicine*
- 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 for journals like *Science*, *JAMA Psychiatry*, *Psychometrika*, *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*.
- 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

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## 2. PUBLICATIONS

<https://dennyborsboom.com/publications/>

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*Summary:* The content of my work ranges from theoretical psychometrics to substantive psychology. I have published in a varied set of journals in the areas of theoretical psychology (*Psychological Review*), psychometrics (*Psychometrika*), clinical psychology (*Annual Review of Clinical Psychology*), psychiatry (*World Psychiatry*), philosophy (*Synthese*), and behavioral science (*Behavioral and Brain Sciences*). See my [Google Scholar](#) page for further information and citation data.

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### 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., Cramer, A. O. J., & Kalis, A. (*in press*). Brain disorders? Not really... Why network structures block reductionism in psychopathology research. *Behavioral and Brain Sciences*.
4. Borsboom, D., Robinaugh, D. J., The Psychosystems Group, Rhemtulla, M., & Cramer, A. O. J. (2018). Robustness and replicability of psychopathology networks. *World Psychiatry, 17*, 143-144.
5. Blanken, T. F., Deserno, M. K., Dalege, J., Borsboom, D., Blanken, P., Kerkhof, G. A., & Cramer, A. O. J. (2018). The role of stabilizing and communicating symptoms given overlapping communities in psychopathology networks. *Scientific Reports, 8*, 5854, 1-8.
6. Bringmann, L., Ferrer, E., Hamaker, E., Borsboom, D., & Tuerlinckx, F. (2018). Modeling nonstationary emotion dynamics in dyads using a semiparametric time-varying vector autoregressive model. *Multivariate Behavioral Research, 50*, 730-731.
7. Epskamp, S., Waldorp, L. J., Möttus, R., & Borsboom, D. (2018). The Gaussian Graphical Model in Cross-Sectional and Time-Series Data. *Multivariate Behavioral Research*. doi:10.1080/00273171.2018.1454823
8. Kendler, K. S., Aggen, S. H., Flint, J., Borsboom, D., & Fried, E. I. (2018). The centrality of DSM and non-DSM depressive symptoms in Han Chinese women with major depression. *Journal of Affective Disorders, 227*, 739-744.
9. Blanken, T. F., Deserno, M. K., Dalege, J., Borsboom, D., Blanken, P., Kerkhof, G. A., & Cramer, A. O. (2018). The role of stabilizing and communicating symptoms given overlapping communities in psychopathology networks. *Scientific Reports, 8*, 5854, 1-8.
10. Haig, B. D., & Borsboom, D. (2018). Scientific realism *with* correspondence truth: A reply to Asay (2018). *Theory and Psychology, 28*, 398-404.
11. Borsboom, D. (2017). A network theory of mental disorders. *World Psychiatry, 16*, 5-13.

12. Borsboom, D., & Wijsen, L. D. (2017). Psychology's atomic bomb. *Assessment in Education: Principles, Policy, and Practice*, 24, 440-446.
13. Borsboom, D., Fried, E. I., Epskamp, S., Waldorp, L. J., van Borkulo, C. D., van der Maas, H. L. J., & Cramer, A. O. J. (2017). False alarm? A comprehensive reanalysis of "Evidence that psychopathology symptom networks have limited replicability" by Forbes, Wright, Markon, and Krueger. *Journal of Abnormal Psychology*.
14. Bringmann, L. F., Hamaker, E. L., Vigo, D. E., Aubert, A., Borsboom, D., & Tuerlinckx, F. (2017). Changing dynamics: Time-varying autoregressive models using generalized additive modeling. *Psychological Methods*, 22, 409-425.
15. Rhemtulla, M., Borsboom, D., & van Bork, R. (2017). How to measure nothing. *Measurement: Interdisciplinary Research and Perspectives*, 15, 95-97.
16. Dalege, J., Borsboom, D., van Harreveld, F., Waldorp, L. J., & van der Maas, H. L. J. (2017). Network structure explains the impact of attitudes on voting decisions. *Scientific Reports*, 7, 4909.
17. Kroeze, R., van der Veen, D. C., Servaas, M. N., Bastiaansen, J. A., Oude Voshaar, R. C., Borsboom, D., Ruhe, H. G., Schoevers, R. A., & Riese, H. (2017). Personalized feedback on symptom dynamics of psychopathology: A proof-of-principle study. *Journal for Person-Oriented Research*, 3, 1-10.
18. Deserno, M. K., Borsboom, D., Begeer, S., & Geurts, H. M. (2017). Relating ASD symptoms to well-being: Moving across different construct levels. *Psychological Medicine*. doi:10.1017/S0033291717002616
19. Marsman, M., Borsboom, D., Kruis, J., Epskamp, S., van Bork, R., Waldorp, L. J., van der Maas, H. L. J., & Maris, G. (2017). An introduction to Network Psychometrics: Relating Ising Network Models to Item Response Theory models. *Multivariate Behavioral Research*, 7, 1-21.
20. Kendler, K. S., Aggen, S. H., Flint, J., Borsboom, D., & Fried, E. I. (2017). The centrality of DSM and non-DSM depressive symptoms in Han Chinese women with Major Depression. *Journal of Affective Disorders*, 227, 739-744.
21. Van Loo, H. M., van Borkulo, C. D., Peterson, R. E., Fried, E. I., Aggen, S. H., Borsboom, D., & Kendler, K. S. (2017). Robust symptom networks in recurrent major depression across different levels of genetic and environmental risk. *Journal of Affective Disorders*, 227, 313-322.
22. Epskamp, S., Rhemtulla, M.T., & Borsboom, D. (2017). Generalized network psychometrics: combining network and latent variable models. *Psychometrika*. doi:10.1007/s11336-017-9557
23. 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.
24. Epskamp, S., Borsboom, D. & Fried, E.I. (2017). Estimating psychological networks and their accuracy: a tutorial paper. *Behavior Research Methods*. doi:10.3758/s13428-017-0862-1
25. Fried, E. I., van Borkulo, C. D., Cramer, A. O. J., Lynn, B., Schoevers, R. A., Borsboom, D. (2017). Mental disorders as networks of problems: a review of recent insights. *Social Psychiatry and Psychiatric Epidemiology*, 52, 1-10.
26. Kossakowski, J. J., Groot, P. C., Haslbeck, J. M. B., Borsboom, D., & Wichers, M. (2017). Data from 'Critical Slowing Down as a Personalized Early Warning Signal for Depression'. *Journal of Open Psychology Data*. doi: <https://doi.org/10.5334/jopd.29>.
27. Dalege, J., Borsboom, D., van Harreveld, F., & van der Maas, H. L. J. (2017). Network analysis on attitudes: A brief tutorial. *Social Psychological and Personality Science*, 8, 528-537

28. 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.
29. 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.
30. 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.
31. 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
32. 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
33. 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.
34. 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*.
35. 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.
36. 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
37. 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.
38. 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.
39. 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.
40. 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.
41. 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.
42. 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*.



43. 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.
44. 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.
45. 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*.
46. 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.
47. Van Bork, R., Rhemtulla, M. T., & Borsboom, D. (2016). Composites can be causal too. *European Journal of Personality*, *30*, 307-308.
48. 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.
49. 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
50. Borsboom, D. (2015). What is causal about individual differences? : A comment on Weinberger. *Theory and Psychology*, *25*, 362-368. doi: 10.1177/0959354315587784
51. Borsboom, D. (2015). Zen and the art of validity theory. *Assessment in Education: Principles, Policy, and Practice*. doi: 10.1080/0969594X.2015.1073479
52. 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.
53. 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
54. 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
55. 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
56. 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
57. 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

58. 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
59. 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
60. 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
61. 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
62. 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
63. Open Science Collaboration (2015). Estimating the reproducibility of psychological science. *Science*, 349: 6251. doi: 10.1126/science.aac4716
64. 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
65. 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 Developmental Disorders*, 45, 192-202. doi: 10.1007/s10803-014-2204-9
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#### KEYNOTE LECTUREES:

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Borsboom, D. (2018). Tools voor de scientist practitioner in de klinische praktijk van de gezondheidspsychologie. [Tools for the scientist practitioner in the clinical practice of health psychology]. Keynote lecture for the Nederlandse Vereniging voor Gezondheidspsychologie. Amersfoort, The Netherlands.

Borsboom, D. (2017). Network approaches to psychopathology. Keynote lecture at the Graduate Research Day, Erasmus University Rotterdam. Rotterdam, The Netherlands.

Borsboom, D. (2017). Netwerkbenederingen van psychopathologie [Network approaches to psychopathology]. Keynote lecture at the Stichting Onverklaarde Lichamelijke Klachten (SOLK). Zwolle, The Netherlands.

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Borsboom, D. (2016). Netwerkbenederingen 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.

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A science in search of its subject: How psychometrics has shaped, strengthened, and shortchanged psychological science. Keynote lecture at the 29<sup>th</sup> 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 lecture at the 1<sup>st</sup> EFPSA conference, Amsterdam, The Netherlands (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 lecture at the NWO Complexity Programme Winterschool, Zandvoort, The Netherlands (2012).

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

#### INVITED LECTURES:

Borsboom, D. (2017). Netwerkbenederingen van psychopathologie [Network approaches to psychopathology]. Invited Lecture at the Anoiksis day. Amersfoort, 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 "Asthenes" and KU Leuven Center for Excellence on Generalization in Health and Psychopathology. Leuven, Belgium.

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 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).

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 9<sup>th</sup> 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 13<sup>th</sup> International IOPS conference in Amsterdam, The Netherlands (2003).