

Don van Ravenzwaaij

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PERSONAL Born February 20, 1984, in 's Gravenhage, The Netherlands. Dutch Citizenship.

EMPLOYMENT *Apr 2021 — Present.* Professor (Adjunct Hoogleraar) in the Psychometrics and Statistics Department of Psychology at the University of Groningen, The Netherlands.

Feb 2018 — Mar 2021. Associate Professor (UHD) in the Psychometrics and Statistics Department of Psychology at the University of Groningen, The Netherlands.

Aug 2015 — Jan 2018. Assistant Professor (UD) in the Psychometrics and Statistics Department of Psychology at the University of Groningen, The Netherlands.

Aug 2013 — Aug 2015. Assistant Professor (Lecturer) in Cognitive and Quantitative Psychology at the University of Newcastle, Australia.

Apr 2012 — July 2013. Post-doctoral research fellow in the Cognitive Psychology department of the University of New South Wales, Sydney, Australia.

Jan 2008 — Dec 2011. PhD student in the Psychological Methods department at the University of Amsterdam, The Netherlands.

Sep 2007 — Dec 2007. RA in the Psychological Methods department at the University of Amsterdam, The Netherlands.

Mar 2005 — Mar 2007. RA in the Psychonomics department at the University of Amsterdam, The Netherlands.

RECENT *Sep 2021 — Present.* Course coordinator on the course “Statistical Solutions
TEACHING to Problems in Psychology” (PSB3E-M16): Third-year course on advanced statistical techniquesq.

Aug 2019 — Present. Lecturer on the course “Statistics 1A” (PSBE1-08) and “Statistics 1B” (PSBE1-09): Undergraduate courses on descriptive and inferential statistics respectively.

April 2019 — Present. Lecturer on the course “Reflecting on Science and Integrity” (GMTPE08): Research master course in which I teach how to

preregister a manuscript.

Oct 2018 — Present. Lecturer on the course “Advanced Statistics” (GMMSG23): Research master course in which I teach Bayesian statistics.

Oct 2015 — Aug 2019. Course coordinator for “Statistical Consultation” (GMMSG11): Research master course in which students get hands-on experience in statistical consultation.

Aug 2015 — Aug 2019. Course coordinator for “Statistics 1A” (PSBE1-08) and “Statistics 1B” (PSBE1-09): Undergraduate courses on descriptive and inferential statistics respectively.

April 2017 — April 2018. Course coordinator for “Transparency in Science” (GMMSG26): Research master course in which students learn about important skills to promote transparency in science, such as pre-registration of research designs, online repositories for data and programming code, and tools for assessing research findings in need of replication.

SUPERVISION

Sep 2019 — Present. PhD-student Merle Pittelkow (main supervisor), University of Groningen.

Sep 2019 — Present. PhD-student Joyce Hoek (main supervisor), University of Groningen.

Sep 2019 — Present. PhD-student Maximilian Linde (main supervisor), University of Groningen.

May 2019 — Present. PhD-student Jasmine Muradchianian (main supervisor), University of Groningen.

Sep 2016 — Dec 2019. PhD-student Daniela Crisan (co-supervisor), University of Groningen.

Oct 2017 — Sep 2018. PhD-student Matthias Haucke (main supervisor), University of Groningen.

Jan 2016 — August 2016. Research assistant Anja-Franziska Ernst (main supervisor), University of Groningen.

Aug 2015 — Aug 2017. Post-doc Emmanouil Konstantinidis (co-supervisor), University of New South Wales.

Jan 2015 — Dec 2015. Honours student Andrew Coutts (main supervisor), University of Newcastle.

Mar 2014 — Jan 2017. PhD-student Gabriel Tillman (main supervisor), Uni-

versity of Newcastle.

Apr 2012 — Jan 2015. PhD-student Christin Schulze (co-supervisor), University of New South Wales.

ORGANIZATION OF SCIENTIFIC MEETINGS *November 2021.* Organization of the Workshop Bayesian Testing of Equivalence, Non-Inferiority, and Superiority with baymedr, hosted at the Nothing but the Truth symposium, Groningen, the Netherlands (with Max Linde).

August 2021. Organization of the Workshop Perspectives on Scientific Error: Parsing History and Comparing Viewpoints, hosted at the Lorentz Center, Leiden, the Netherlands (with Noah van Dongen, Felipe Romero, Remco Heesen, and Marjan Bakker).

November 2017. Organization of the Symposium on Improving Statistical Inference in Science, hosted at the Annual Psychonomics Society meeting, Vancouver, Canada (with Rink Hoekstra).

October 2016. Organization of the Workshop on Bayesian Estimation of Evidence Accumulation Models using Differential Evolution, hosted at the Leipzig University, Leipzig, Germany (with Alexander Provost and Bryan Paton).

June 2015. Organization of the Bayesian Workshop on MCMC Sampling and Parameter Estimation, hosted at UoN in Newcastle, Australia (with Chris Donkin and Adam Osth).

June 2014. Organization of the Bayesian Workshop on MCMC Sampling and Parameter Estimation, hosted at UNSW in Sydney, Australia (with Chris Donkin and Guy Hawkins).

Dec 2008 — August 2009. Organization of the annual Mathematical Psychology Conference, hosted in Amsterdam, The Netherlands (with the lab).

EDUCATION *Jan 2008 — Dec 2011.* PhD in Psychology — cum laude. Department of Psychological Methods at the University of Amsterdam.

- Thesis: The Hare or the Tortoise? Modeling Optimal Speed–Accuracy Tradeoff Settings.

Sep 2005 — Sep 2007. Research Master of Science in Psychology — cum laude. Department of Psychological Methods at the University of Amsterdam.

- Thesis I: Parameter Identification in Ratcliff’s Diffusion Model.
- Thesis II: Conflict Monitoring and Control in the Simon Task and the Eriksen Flanker Task: Modelling Reaction Time–Distributions and Exploring Correlates.

Sep 2002 — Sep 2005. Bachelor of Science in Psychology — cum laude. Department of Psychonomics at the University of Amsterdam.

- Thesis: The Dutch WAIS–III after Renorming (De Nederlandstalige WAIS–III na Hernormering).

Sep 2002 — Sep 2003. Propedeuse Beta Gamma — cum laude. Interdisciplinary Department at the University of Amsterdam.

Sep 1996 — Sep 2002. Vossius Gymnasium Amsterdam — cum laude. Courses: Dutch, English, German, French, Economics, Mathematics, Physics, Chemistry.

EDUCATION
ABROAD

Mar 2007 — July 2007. Writing of my second research master thesis with Prof. Dr. Oliver Wilhelm at the Humboldt Universität in Berlin.

GRANTS &
AWARDS

May 2018. NWO Vidi Grant. “Back to Bayesics: Solving the Reproducibility Crisis in Biomedicine”. 5-year fellowship grant, sole PI (€799,448).

Jun 2017. University of Groningen BSS Interdisciplinary Grant. “Using Bayes Factors as a Tool for Establishing Studies in Need of Replication”. 4-year grant for a PhD-student with Dr. Rink Hoekstra, shared co-PI (€180,000).

Dec 2016. University of Groningen Faculty Grant (€2,000).

Jun 2016. University of Groningen Faculty Grant (€2,500).

Jan 2014. Keats Endowment Research Fund (\$3,700).

Dec 2013. University of Newcastle New Staff Grant (\$5,000).

Nov 2013. Australian Research Council Discovery Project. “Risky Futures: Toward a Computational Process Model of Risky Inter-Temporal Choice”. 3-year grant with Prof. Ben Newell, shared co-PI (\$290,207 = €189,267).

Nov 2013. Australian Research Council Discovery Early Career Researcher Award. “Do Our Past Decisions Affect Our Present Decisions? An Innovative Model”. 3-year fellowship grant, sole PI (\$384,183 = €249,953).

Dec 2013. FSCIT New Staff Grant (\$5,000).

Sep 2013. Faculty ECR Visiting Fellowship Grant (\$4,000).

PROFESSIONAL
SERVICE

June 2021 — Present. Chair of the working group Open Science of the Faculty Behavioral and Social Sciences. University of Groningen, Groningen, The Netherlands.

May 2021 — Sep 2021. Vice chair of the Faculty Council of Behavioral and Social Sciences. University of Groningen, Groningen, The Netherlands.

April 2021 — Present. Member of the Exam Committee of the Research Mas-

ter of the Faculty Council of Behavioral and Social Sciences. University of Groningen, Groningen, The Netherlands.

Feb 2021 — Present. Board Member at *Vereniging voor Statistiek en Operations Research.*

Jan 2020 — Present. Senior Editor at *Collabra: Psychology.*

Jan 2020 — Present. Consulting Editor at *Behavior Research Methods.*

Aug 2019 — Sep 2021. Staff member of the Faculty Council of Behavioral and Social Sciences. University of Groningen, Groningen, The Netherlands.

April 2019 — Present. Member of the Appeal Board for Examinations (across the FEB, BSS, and FSS faculties). University of Groningen.

Mar 2018 — Dec 2019. Associate Editor at *Behavior Research Methods.*

June 2016 — Aug 2019. Member of the Education Committee Psychology. University of Groningen, Groningen, The Netherlands.

Aug 2015 — Aug 2021. Manager of the Methodology Shop, which employs a number of students proficient at statistics. The purpose of the shop is to provide counseling to other researchers (students or faculty) who have a statistical problem of any kind.

Jan 2012 — Mar 2012. Member of the statistical branch of the Stapel-committee, investigating the scientific publications of D. A. Stapel during his period of employment at the University of Amsterdam.

PROFESSIONAL MEMBERSHIPS

2021 — Present. Member of the American Psychological Association.

2019 — Present. Member of the Society for the Improvement of Psychological Science.

2018 — Present. Member of the Association for Psychological Science.

2015 — Present. Fellow of the Psychonomics Society.

2014 — Present. Member of the Psychonomics Society.

2008 — Present. Member of the Society for Mathematical Psychology.

JOURNAL ARTICLES

67. Field, S. M., van Ravenzwaaij, D., Pittelkow, M.-M., Hoek, J. M., & Derksen, M. (2021). Qualitative Open Science – Pain Points and Perspectives. Manuscript submitted for publication.

65. Bush, M., Fraser, H., Wintle, B. C., Mody, F., Smith, E., Hanea, A., Gould, E., Hemming, V., Hamilton, D. G., Rumpff, L., Wilkinson, D. P., Pearson, R., Thorn, F. S., Ashton, R., Willcox, A., Gray, C., Head, A., Ross, M., Groenewegen, R., Marcoci, A., Vercammen, A., Parker, T., Hoekstra, R., Nakagawa, S., Mandel, D. R., van Ravenzwaaij, D., McBride, M., Sinnott, R. O., Vesk, P., Burgman, M., & Fidler, F. (2021). Predicting reliability through structured expert elicitation with repliCATS (Collaborative Assessments for Trustworthy Science). Manuscript submitted for publication.
65. Linde, M., & van Ravenzwaaij, D. (2021). baymedr: An R Package for the Calculation of Bayes Factors for Equivalence, Non-Inferiority, and Superiority Designs. Manuscript submitted for publication.
64. Aczel, B., Szaszi, B., Nilsonne, G., van den Akker, O. R., Albers, C. J., van Assen, M. A. L. M., Bastiaansen, J. A., Benjamin, D., Boehm, U., Botvinik-Nezer, R., Bringmann, L. F., Busch, N. A., Caruyer, E., Cataldo, A. M., Cowan, N., Delios, A., van Dongen, N. N. N., Donkin, C., van Doorn, J. B., Dreber, A., Dutilh, G., Egan, G. F., Gernsbacher, M. A., Hoekstra, R., Hoffmann, S., Holzmeister, F., Huber, J., Johannesson, M., Jonas, K. J., Kindel, A. T., Kirchler, M., Kunkels, Y. K., Lindsay, D. S., Mangin, J.-F., Matzke, D., Munafo, M. R., Newell, B. R., Nosek, B. A., Poldrack, R. A., van Ravenzwaaij, D., Rieskamp, J., Salganik, M. J., Sarafoglou, A., Schonberg, T., Schweinsberg, M., Shanks, D., Silberzahn, R., Simons, D. J., Spellman, B. A., St-Jean, S., Starns, J. J., Uhlmann, E. L., Wicherts, J., & Wagenmakers, E.-J. (in press). Guidance for Multi-Analyst Studies. *eLife*.
63. Heck, D. W., Boehm, U., Böing-Messing, F., Bürkner, P. C., Derks, K., Dienes, Z., Fu, Q., Gu, X., Karimova, D., Kiers, H. A. L., Klugkist, I., Kuiper, R. M., Lee, M. D., Leenders, R., Lepplaa, H. J., Linde, M., Ly, A., Meijerink-Bosman, M., Moerbeek, M., Mulder, J., Palfi, B., Schönbrodt, F. D., Tendeiro, J. N., van den Bergh, D., van Lissa, C., van Ravenzwaaij, D., Vanpaemel, W., Wagenmakers, E.-J., Williams, D. R., Zondervan-Zwijnenburg, M., & Hoijtink, H. (in press). A Review of Applications of the Bayes Factor in Psychological Research. *Psychological Methods*.
62. Pittelkow, M.-M., de Vries, Y. A., Monden, R., Bastiaansen, J. A., & van Ravenzwaaij, D. (in press). Comparing the Evidential Strength for Psychotropic Drugs: A Bayesian Meta-Analysis. *Psychological Medicine*.
61. Wagenmakers, E.-J., Sarafoglou, A., Aarts, S., Albers, C., Algermissen, J., Bahnik, J., van Dongen, N. N. N., Hoekstra, R., Moreau, D., van Ravenzwaaij, D., Sluga, A., Stanke, F., Tendeiro, J. N., & Aczel, B. (in press). Toward More Transparency in Statistical Practice. *Nature Human Behaviour*.
60. Kovacs, M.*, van Ravenzwaaij, D.*, Hoekstra, R., & Aczel, B. (in press). SampleSizePlanner: A Tool to Estimate and Justify Sample Size for Two-Group Studies. *Advances in Methods and Practices in Psychological Science*.

59. Linde, M. & van Ravenzwaaij, D. (in press). Bayes Factor Model Comparisons Across Parameter Values for Mixed Models. *Computational Brain & Behavior*.
58. Tendeiro, J., Kiers, H. A. L., & van Ravenzwaaij, D. (in press). Worked-Out Examples of the Adequacy of Bayesian Optional Stopping. *Psychonomic Bulletin & Review*.
57. van Ravenzwaaij, D., & Wagenmakers, E.-J. (in press). Advantages Masquerading as ‘Issues’ in Bayesian Hypothesis Testing: A Commentary on Tendeiro and Kiers (2019). *Psychological Methods*.
56. Linde, M., Tendeiro, J. N., Selker, R., Wagenmakers, E.-J., & van Ravenzwaaij, D. (in press). Decisions About Equivalence: A Comparison of TOST, HDI-ROPE, and the Bayes Factor. *Psychological Methods*.
55. Hanea, A., Wilkinson, D., McBride, M., Lyon, A. van Ravenzwaaij, D., Thorn, F. S., Grey, C., Mandel, D., Willcox, A., Gould, E., Smith, E., Mody, F., Bush, M., Fidler, F., Fraser, H., & Wintle, B. (2021). Mathematically aggregating experts’ predictions of possible futures. *PLOS ONE*, *16*, e0256919.
54. Haucke, M., Hoekstra, R., & van Ravenzwaaij, D. (2021). When numbers fail: Do researchers agree on operationalisation of published research? *Royal Society Open Science*, *8*, 191354.
53. Pittelkow, M.-M., Hoekstra, R., Karsten, J., & van Ravenzwaaij, D. (2021). Replication Target Selection in Clinical Psychology: A Bayesian and Qualitative Re-evaluation. *Clinical Psychology: Science and Practice*, *28*, 210–221.
52. Hoek, J.*, Field, S. M.*, de Vries, Y. A., Linde, M., Pittelkow, M.-M., Muradchianian, J., & van Ravenzwaaij, D. (2021). Rethinking Remdesivir for COVID-19: A Bayesian Reanalysis of Trial Findings. *PLOS ONE*, *16*, e0255093.
51. Muradchianian, J., Hoekstra, R., Kiers, H. A. L., & van Ravenzwaaij, D. (2021). How Best to Quantify Replication Success? A Simulation Study on the Comparison of Replication Success Metrics. *Royal Society Open Science*, *8*, 201697.
50. Haucke, M., Miosga, J., Hoekstra, R., & van Ravenzwaaij, D. (2021). Bayesian Frequentists: Examining the Paradox Between What Researchers Can Conclude Versus What They Want to Conclude from Statistical Results. *Collabra: Psychology*, *7*, 19026.
49. van Ravenzwaaij, D. (2021). Speelse Statistiek. *De Psycholoog*, *56*, 29. Book review of “Bayesiaans Denken voor Peuters” (“Bayesian Thinking for Toddlers”) by Eric-Jan Wagenmakers.

48. van Ravenzwaaij, D., & Etz, A. (2021). Simulation Studies as a Tool to Understand Bayes Factors. *Advances in Methods and Practices in Psychological Science*, *4*, 1–20.
47. Aczel, B., Hoekstra, R., Gelman, A., Wagenmakers, E.–J., Klugkist, I. G., Rouder, J., Vandekerckhove, J., Lee, M., Morey, R., Vanpaemel, W., Dienes, Z., & van Ravenzwaaij, D. (2020). Discussion Points for Bayesian Inference. *Nature Human Behaviour*, *4*, 561–563.
46. van Ravenzwaaij, D., Brown, S. D., Marley, A. A. J., & Heathcote, A. (2020). Accumulating Advantages: A New Conceptualization of Forced Choice Response Time Tasks. *Psychological Review*, *127*, 186–215.
45. Konstantinidis, E., van Ravenzwaaij, D., Güney, S., & Newell, B. R. (2020). Now for Sure or Later with a Risk? Modeling Risky Inter-Temporal Choice as Accumulated Preference. *Decision*, *7*, 91–120.
44. Field, S. M., Wagenmakers, E.–J., Kiers, H. A. L., Hoekstra, R., Ernst, A., & van Ravenzwaaij, D. (2020). The Effect of Preregistration on Trust in Empirical Research Findings: Results of a Registered Report. *Royal Society Open Science*, *7*, 181351.
43. Starns, J. J., Cataldo, A. M., Rotello, C. M., Annis, J., Aschenbrenner, A., Broder, A., Cox, G., Criss, A., Curl, R. A., Dobbins, I. G., Dunn, J., Enam, T., Evans, N., Farrell, S., Fraundorf, S. H., Gronlund, S. D., Heathcote, A., Heck, D. W., Hicks, J., L., Huff, M. J., Kellen, D., Key, K., N., Kilic, A., Klauer, C., Kraemer, K. R., Leite, F. P., Lloyd, M. E., Malejka, S., Mason, A., McAdoo, R. M., McDonough, I. M., Michael, R., Mickes, L., Mizrak, E., Morgan, D. P., Mueller, S. T., Osth, A., Reynolds, A., Seale-Carlisle, T. M., Singmann, H., Sloane, J. F., Smith, A., Tillman, G., van Ravenzwaaij, D., Weidemann, C. T., Wells, G., White, C. N., & Wilson, J. (2019). Does Science Have an Inference Crisis? Assessing Theoretical Conclusions with Blinded Inference. *Advances in Methods and Practices in Psychological Science*, *2*, 335–349.
42. van Ravenzwaaij, D., & Ioannidis, J. P. A. (2019). True and False Positive Rates for Different Criteria of Evaluating Statistical Evidence from Clinical Trials. *BMC: Medical Research Methodology*, *19*, 218.
41. Field, S. M., Hoekstra, R., Bringmann, L., & van Ravenzwaaij, D. (2019). When and Why to Replicate: As Easy as 1, 2, 3? *Collabra: Psychology*, *5*, 46.
40. Dutilh, G., Annis, J., Brown, S. D., Cassey, P., Evans, N. J., Grasman, R. P. P., Hawkins, G. E., Heathcote, A., Holmes, W. R., Kryptos, A.–M., Kupitz, C. N., Leite, F. P., Lerche, V., Lin, Y.–S., Logan, G. D., Palmeri, T. J., Starns, J. J., Trueblood, J. S., van Maanen, L., van Ravenzwaaij, D., Vandekerckhove, J., Visser, I., Voss, A., White, C. N., Wiecki, T. V., Rieskamp, J., & Donkin, C. (in press). The Quality of Response Time Data Inference: A Blinded, Collaborative Assessment of the Validity of Cognitive Models. *Psychonomic Bulletin*

39. Crisan, D. R., Tendeiro, J. N., Wanders, R. B. K., van Ravenzwaaij, D., Meijer, R. R., & Hartman, C. A. (2019). Practical Consequences of Model Misfit When Using Rating Scales to Assess ADHD Severity in Children. *International Journal of Methods in Psychiatric Research, 28*, e1795.
38. van Ravenzwaaij, D., Monden, R., Tendeiro, J., & Ioannidis, J. P. A. (2019). Bayes Factors for Superiority, Non-Inferiority, and Equivalence Designs. *BMC: Medical Research Methodology, 19*, 71.
37. van Dongen, N. N. N., van Doorn, J. B., Gronau, Q. F., van Ravenzwaaij, D., Hoekstra, R., Haucke, M. N., Lakens, D., Hennig, C., Morey, R. D., Homer, S., Gelman, A., Sprenger, J., & Wagenmakers, E.-J. (2019). Multiple Perspectives on Inference for Two Simple Statistical Scenarios. *The American Statistician, 73*, 328–339.
36. Boehm, U., Annis, J., Frank, M. J., Hawkins, G. E., Heathcote, A., Kellen, D., Kryptos, A.-M., Lerche, V., Logan, G. D., Palmeri, T. J., van Ravenzwaaij, D., Servant, M., Singmann, H., Starns, J. J., Voss, A., Wiecki, T. V., Matzke, D., & Wagenmakers, E.-J. (2018). Estimating Across-Trial Variability Parameters of the Diffusion Decision Model: Expert Advice and Recommendations. *Journal of Mathematical Psychology, 87*, 46–75.
35. Albers, C., Kiers, H., & van Ravenzwaaij, D. (2018). Credible Confidence: A pragmatic view on the frequentist vs Bayesian debate. *Collabra: Psychology, 4*, 31.
34. Baribault, B., Donkin, C., Little, D. R., Trueblood, J. S., Oravecz, Z., van Ravenzwaaij, D., White, C. N., de Boeck, P. & Vandekerckhove, J. (2018). Meta-Studies for Robust Tests of Theory. *Proceedings of the National Academy of Sciences, 115*, 2607–2612.
33. Ernst, A. F., Hoekstra, R., Wagenmakers, E.-J., Gelman, A., & van Ravenzwaaij, D. (in press). Do Researchers Anchor their Beliefs on the Outcome of an Initial Study? Testing the Time-Reversal Heuristic. *Experimental Psychology, 65*, 158–169.
32. Monden, R., Roest, A. M., van Ravenzwaaij, D., Wagenmakers, E.-J., Morey, R., Wardenaar, K. J. & de Jonge, P. (2018). The Comparative Evidence Basis for the Efficacy of Second-Generation Antidepressants in the Treatment of Depression in the US: A Bayesian Meta-Analysis of Food and Drug Administration Reviews. *Journal of Affective Disorders, 235*, 393–398.
31. Hoekstra, R., Monden, R., van Ravenzwaaij, D., & Wagenmakers, E.-J. (2018). Bayesian Reanalysis of Null Results Reported in the New England Journal of Medicine: Strong yet Variable Evidence for the Absence of Treatment Effects. *PLoS One, 13*, e0195474.

30. Heida, A., Van de Vijver, E., van Ravenzwaaij, D., Van Biervliet, S., Hummel, T. Z., Yuksel, Z., Gonera-de Jong, G., Schulenberg, R., Muller Kobold, A., van Rheeën, P. F. & the CACATU Consortium (2018). Predicting Inflammatory Bowel Disease in Children with Abdominal Pain and Diarrhoea: Calgranulin-C Versus Calprotectin Stool Tests. *Archives of Childhood Disease*, *103*, 565–571.
29. Campbell, L., Hanlon, M.–C., Cherrie, G., Harvey, C., Stain, H. J., Cohen, M., van Ravenzwaaij, D., & Brown, S. D. (2018). Severity of Illness and Adaptive Functioning Predict Quality of Care of Children Among Parents with Psychosis: A Confirmatory Factor Analysis. *Australian and New Zealand Journal of Psychiatry*, *52*, 435–445.
28. van Ravenzwaaij, D., Cassey, P., & Brown, S. D. (2018). A Simple Introduction to Markov Chain Monte–Carlo. *Psychonomic Bulletin & Review*, *25*, 143–154.
27. Tillman, G., Osth, A., van Ravenzwaaij, D., & Heathcote, A. (2017). A Diffusion Decision Model Analysis of Evidence Variability in the Lexical Decision Task. *Psychonomic Bulletin & Review*, *24*, 1949–1956.
26. Schulze, C., van Ravenzwaaij, D., & Newell, B. R. (2017). Hold it! The Influence of Lingering Rewards on Choice Diversification and Persistence. *Journal of Experimental Psychology: Learning, Memory & Cognition*, *43*, 1752–1767.
25. van Ravenzwaaij, D., Donkin, C. & Vandekerckhove, J. (2017). The EZ Diffusion Model Provides a Powerful Test of Simple Empirical Effects. *Psychonomic Bulletin & Review*, *24*, 547–556.
24. van Ravenzwaaij, D. & Ioannidis, J. P. A. (2017). A Simulation Study of the Strength of Evidence in the Endorsement of Medications Based on Two Trials with Statistically Significant Results. *PLoS One*, *12*, e0173184.
23. Tillman, G., Benders, T., Brown, S. D., & van Ravenzwaaij, D. (2017). An Evidence Accumulation Model of Acoustic Cue Weighting in Vowel Perception. *Journal of Phonetics*, *61*, 1–12.
22. van Ravenzwaaij, D., Provost, A., & Brown, S. D. (2017). A Confirmatory Approach for Integrating Neural and Behavioural Data into a Single Model. *Journal of Mathematical Psychology*, *76*, 131–141.
21. Huizenga, H., van Ravenzwaaij, D., Ridderinkhof, R., & Wetzels, R. (2017). Albright vs. Trump: Scientific Evidence for the Beneficial Effects of Careful Deliberation (eLetter). *Science*, doi: 10.13140/RG.2.2.24390.27207.
20. Field, S. M., Wagenmakers, E.–J., Newell, B. R., Zeelenberg, R. & van Ravenzwaaij, D. (2016). Two Bayesian tests of the GLOMOSys model. *Journal of Experimental Psychology: General*, *145*, e81–e95.

19. Cramer, A. O. J., van Ravenzwaaij, D., Matzke, D., Steingroever, H., Wetzels, R., Grasman, R. P. P. P., Waldorp, L. J., & Wagenmakers, E.-J. (2016). Hidden Multiplicity in Multiway ANOVA: Prevalence, Consequences, and Remedies. *Psychonomic Bulletin & Review*, *23*, 640–647.
18. Schulze, C., van Ravenzwaaij, D., & Newell, B. R. (2015). Of Matchers and Maximizers: How Competition Shapes Choice under Risk and Uncertainty. *Cognitive Psychology*, *78*, 78–98.
17. van Ravenzwaaij, D., Mulder, M. J., Tuerlinckx, F. & Wagenmakers, E.-J. (2015). Paradoxes of Optimal Decision Making: A Response to Moran (2014). *Psychonomic Bulletin & Review*, *22*, 307–308.
16. van Ravenzwaaij, D., Boekel, W., Forstmann, B. U., Ratcliff, R., & Wagenmakers, E.-J. (2014). Action Video Games Do Not Improve the Speed of Information Processing in Simple Perceptual Tasks. *Journal of Experimental Psychology: General*, *143*, 1794–1805.
15. van Ravenzwaaij, D., Moore, C. P., Lee, M. D., & Newell, B. R. (2014). A Hierarchical Bayesian Modeling Approach to Searching and Stopping in Multi-Attribute Judgment. *Cognitive Science*, *38*, 1384–1405.
14. Huizenga, H., van Duijvenvoorde, A., van Ravenzwaaij, D., Wetzels, R., & Jansen, B. (2014). Is the Unconscious, if it Exists, a Superior Decision Maker? *Behavioral Brain Sciences*, *37*, 32–33.
13. Newell, B. R., van Ravenzwaaij, D., & Donkin, C. (2013). A Quantum of Truth? Querying the Alternative Benchmark for Human Cognition (Commentary Article). *Behavioral Brain Sciences*, *36*, 300–302.
12. Newell, B. R., Koehler, D. J., James, G., Rakow, T. & van Ravenzwaaij, D. (2013). Probability Matching in Risky Choice: The Interplay of Feedback and Strategy Availability. *Memory & Cognition*, *41*, 329–338.
11. Dutilh, G., van Ravenzwaaij, D., Nieuwenhuis, S., van der Maas, H. L. J., Forstmann, B. U., & Wagenmakers, E.-J. (2012). How to Measure Post-Error Slowing: A Confound and a Simple Solution. *Journal of Mathematical Psychology*, *56*, 208–216.
10. van Ravenzwaaij, D., Mulder, M. J., Tuerlinckx, F. & Wagenmakers, E.-J. (2012). Do the Dynamics of Prior Information Depend on Task Context? An Analysis of Optimal Performance and an Empirical Test. *Frontiers in Cognitive Science*, *3*, Art 132, 1–15.
9. van Ravenzwaaij, D., van der Maas, H. L. J., & Wagenmakers, E.-J. (2012). Optimal Decision Making in Neural Inhibition Models. *Psychological Review*, *119*, 201–215.

8. Huizenga, H. M., Wetzels, R., van Ravenzwaaij, D., & Wagenmakers, E.-J. (2012). Four Empirical Tests of Unconscious Thought Theory. *Organizational Behavior and Human Decision Processes*, *117*, 332–340.
7. van Ravenzwaaij, D., Dutilh, G., & Wagenmakers, E.-J. (2012). A Diffusion Model Decomposition of the Effects of Alcohol on Perceptual Decision Making. *Psychopharmacology*, *219*, 1017–1025.
6. van Ravenzwaaij, D., Brown, S., & Wagenmakers, E.-J. (2011). An Integrated Perspective on the Relation Between Response Speed and Intelligence. *Cognition*, *119*, 381–393.
5. van Ravenzwaaij, D., van der Maas, H. L. J., & Wagenmakers, E.-J. (2011). Does the Name–Race Implicit Association Test Measure Racial Prejudice? *Experimental Psychology*, *58*, 271–277.
4. van Ravenzwaaij, D., Dutilh, G., & Wagenmakers, E.-J. (2011). Cognitive Model Decomposition of the BART: Assessment and Application. *Journal of Mathematical Psychology*, *55*, 94–105.
3. van Ravenzwaaij, D., & Oberauer, K. (2009). How to Use the Diffusion Model: Monte–Carlo Simulations Evaluating Parameter Recovery of Three Methods: EZ, Fast-DM, and DMAT. *Journal of Mathematical Psychology*, *53*, 463–473.
2. Keye, D., Wilhelm, O., Oberauer, K., & van Ravenzwaaij, D. (2009). Individual Differences in Conflict–Monitoring: Testing Means and Covariance Hypothesis about the Simon and the Eriksen Flanker Task. *Psychological Research*, *73*, 762–776.
1. van Ravenzwaaij, D., & Hamel, R. (2006). De Nederlandstalige WAIS–III na Hernormering. *De Psycholoog*, *5*, 268–271.

REFEREED
 CONFERENCE
 PROCEEDINGS

Konstantinidis, E., van Ravenzwaaij, D., & Newell, B. R. (2017). Exploring the Decision Dynamics of Risky Intertemporal Choice. In G. Gunzelmann, A. Howes, T. Tenbrink, & E. Davelaar (Eds.), *Proceedings of the 39th Annual Conference of the Cognitive Science Society* (pp. 694–699). Berlin, Germany: Cognitive Science Society.

van Ravenzwaaij, D., Newell, B. R., Moore, C. P., & Lee, M. D., (2013). Using Recognition in Multi–Attribute Decision Environments. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), *Proceedings of the 35th Annual Conference of the Cognitive Science Society* (pp. 3627–3632). Berlin, Germany: Cognitive Science Society.

Schulze, C., van Ravenzwaaij, D., & Newell, B. R. (2013). Match Me if You Can: How Smart Choices are Fueled by Competition. In M. Knauff, M. Pauen,

N. Sebanz, & I. Wachsmuth (Eds.), *Proceedings of the 35th Annual Conference of the Cognitive Science Society* (pp. 3372–3377). Berlin, Germany: Cognitive Science Society.

BOOK CHAPTERS van Ravenzwaaij, D. (2018). MCMC: A Clever Way to Run the Numbers. In Farrell, S. & Lewandowsky, S. (Eds.). *Computational Modeling of Cognition and Behaviour* (pp. 170–171). Cambridge University Press.

Wetzels, R., van Ravenzwaaij, D., & Wagenmakers, E.–J. (2015). Bayesian analysis. In R. L. Cautin, & S. O. Lilienfeld (Eds.), *The Encyclopedia of Clinical Psychology* (pp. 274–283). John Wiley & Sons.

van Ravenzwaaij, D., Lee, M. D., & Wagenmakers, E.–J. (2013). The BART Model of Risk Taking. In M. D. Lee, & E.–J. Wagenmakers (Eds.), *Bayesian Cognitive Modeling: A Practical Course* (pp. 206–211). Cambridge University Press.

INVITED PRESENTATIONS van Ravenzwaaij, D. (2020, February). *Strength of evidence in the recommendation of medications*. Invited presentation for the Tobacco and Alcohol Research Group, Bristol, UK.

van Ravenzwaaij, D. (2020, January). *Evaluating Statistical Evidence in Biomedical Research, Meta-Studies, and Radical Randomization*. Invited presentation for the Design and Analysis of Replication Studies Symposium, Zürich, Switzerland.

van Ravenzwaaij, D. (2019, October; 2021, February). *Bayesian Hypothesis Testing: The One-Hour Version*. Invited presentation for the BCN Symposium, Groningen, The Netherlands.

van Ravenzwaaij, D. (2018, July). *Thoughts on Evaluating Statistical Evidence in Biomedical Research*. Invited presentation for the METRICS lab, Stanford, US.

van Ravenzwaaij, D. (2018, June). *Perspectives on Evaluating Statistical Evidence in Biomedical Research*. Invited presentation for the statistical division of the European Medicines Agency, London, UK.

van Ravenzwaaij, D. (2018, February). *On Replications: Something Empirical, Methodological, Perceptual, and Statistical*. Invited lecture for the department of Cognitive Psychology, Melbourne, Australia.

van Ravenzwaaij, D. (2016, December). *RT Modeling: Parsimony, Joint Modeling, and Relative Accumulation*. Keynote lecture for the biannual IOPS conference, Groningen, The Netherlands.

van Ravenzwaaij, D. (2016, November). *RT Modeling: Parsimony, Joint Mod-*

eling, and Relative Accumulation. Invited lecture for the School of Psychology at the University of Zürich, Switzerland.

van Ravenzwaaij, D. (2016/2017, April). *Alternatives to DDM: LBA, LCA & EZ*. Invited lecture for the Groningen Spring School on Cognitive Modeling, Groningen, The Netherlands.

van Ravenzwaaij, D. (2016, March). *Response Time Models & Preregistered Replications*. Invited presentation for the Clinical Department of the School of Psychology at the University of Groningen, The Netherlands.

van Ravenzwaaij, D. (2016, February). *Response Time Models & Preregistered Replications*. Invited presentation for the School of Psychology at Newcastle University, Newcastle, Australia.

van Ravenzwaaij, D. (2014, October). *Bayesian Models of Cognition: Normative or Descriptive?* Invited presentation for the School of Psychology at Newcastle University, Newcastle, Australia.

van Ravenzwaaij, D. (2014, February). *Introduction to Bayesian Statistics: Philosophy and Differences with Frequentist Statistics*. Invited presentation for the Center for Language Studies at the Radboud University Nijmegen, Nijmegen, The Netherlands.

van Ravenzwaaij, D. (2013, September). *What Response Time Modeling Can Teach Us: Applications to Alcohol, Prejudice, and Video Games*. Invited presentation for the School of Psychology at the University of New South Wales, Sydney, Australia.

van Ravenzwaaij, D. (2013, March). *Decisions: Timed and Untimed*. Invited presentation for the Department of Psychological Methods at the University of Amsterdam, The Netherlands.

van Ravenzwaaij, D. (2013, February). *The Joys of Response Time Modeling*. Invited presentation for the School of Psychology at University College London, London, UK.

van Ravenzwaaij, D. (2012, November). *The Joys of Response Time Modeling: A Selection of Experimental Work*. Invited presentation for the School of Cognitive Science at the University of California Irvine, Irvine, USA.

van Ravenzwaaij, D. (2012, August). *The Joys of Response Time Modeling*. Invited presentation for the School of Psychology at Newcastle University, Newcastle, Australia.

CONFERENCE
PRESENTATIONS

Kovacs, M.*, van Ravenzwaaij, D.*, Hoekstra, R., & Aczel, B. (2021, November). *SampleSizePlanner: A Tool to Estimate and Justify Sample Size for*

Two-Group Studies. Paper presented at the annual meeting of the Psychonomics Society, virtual. *=shared first author

van Ravenzwaaij, D., Selker, R., Linde, M. & Wagenmakers, E.-J. (2019, July). *Evidence for the Absence of an Effect: TOST, ROPE, and Interval BF_s*. Paper presented at the annual meeting of the Mathematical Psychology Society, Montreal, Canada.

van Ravenzwaaij, D., & Ioannidis, J. P. A. (2019, July). *Strength of Evidence in the Recommendation of Medications*. Paper presented at the annual meeting of the International Society for Clinical Biostatistics, Leuven, Belgium.

van Ravenzwaaij, D., & Ioannidis, J. P. A. (2018, July). *FDA Policy Revisited: Strength of Evidence for Two ‘Significant’ Trials*. Paper presented at the International Conference on Teaching Statistics, Kyoto, Japan.

van Ravenzwaaij, D., Brown, S. D., Marley, A. A. J., & Heathcote, A. (2018, May). *Accumulating Advantages: A New Framework for Multi-Alternative Forced Choice Tasks*. Paper presented at the annual meeting of Psychonomics International, Amsterdam, The Netherlands.

Albers, C., Kiers, H., & van Ravenzwaaij, D. (2018, February). *Credible Confidence: A pragmatic view on the frequentist vs Bayesian debate*. Paper presented at the annual meeting of the Australian Society for Mathematical Psychology, Perth, Australia.

van Ravenzwaaij, D., & Ioannidis, J. P. A. (2017, November). *A Simulation Study of the Strength of Evidence in the Endorsement of Medications Based on Two Trials with Statistically Significant Results*. Paper presented at the annual meeting of the Psychonomics Society, Vancouver, Canada.

Tillman, G., Benders, T., Brown, S. D., & van Ravenzwaaij, D. (2017, August). *An Evidence Accumulation Model of Acoustic Cue Weighting in Vowel Perception*. Paper presented at the annual meeting of ICON, Amsterdam, The Netherlands.

van Ravenzwaaij, D., & Ioannidis, J. P. A. (2017, July). *A Simulation Study of the Strength of Evidence in the Endorsement of Medications Based on Two Trials with Statistically Significant Results*. Paper presented at the annual meeting of the Mathematical Psychology Society, Warwick, UK.

van Ravenzwaaij, D., Brown, S. D., Marley, A. A. J., & Heathcote, A. (2017, March). *Accumulating Advantages: A New Framework for Multi-Alternative Forced Choice Tasks*. Paper presented at the annual meeting of TEAP, Dresden, Germany.

van Ravenzwaaij, D., Donkin, C., & Vandekerckhove, J. (2016, July/August). *Less is More: The Power of EZ*. Paper presented at the Annual Summer Inter-

disciplinary Conference, Selva, Italy and at the annual meeting of the Mathematical Psychology Society, New Brunswick, New Jersey, USA.

van Ravenzwaaij, D., Provost, A., & Brown, S. D. (2016, February). *One Approach for Integrating Neural and Behavioral Data into a Single Model*. Paper presented at the annual meeting of Australian Mathematical Psychology, Tasmania, Australia.

van Ravenzwaaij, D., Brown, S. D., Marley, A. A. J., & Heathcote, A. (2015, July). *The Advantage Linear Ballistic Accumulator: A New Framework for Multi-Alternative Forced Choice Tasks*. Paper presented at the Annual Summer Interdisciplinary Conference, Mammoth Lakes, California, USA and at the annual meeting of the Mathematical Psychology Society, Newport Beach, California, USA.

van Ravenzwaaij, D., Brown, S. D., Marley, A. A. J., & Heathcote, A. (2015, February). *The Advantage Linear Ballistic Accumulator: A New Framework for Multi-Alternative Forced Choice Tasks*. Paper presented at the annual meeting of Australian Mathematical Psychology, Newcastle, Australia.

van Ravenzwaaij, D., Brown, S. D., & Heathcote, A. (2014, November). *The Advantage Linear Ballistic Accumulator: A New Framework for Multi-Alternative Forced Choice Tasks*. Poster presented at the annual meeting of the Psychonomic Society, Long Beach, California, USA.

van Ravenzwaaij, D., Boekel, W., Forstmann, B. U., Ratcliff, R., & Wagenmakers, E.-J. (2013, August). *Action Video Games Do Not Improve the Speed of Information Processing in Simple Perceptual Tasks*. Paper presented at the annual meeting of the Mathematical Psychology Society, Potsdam, Germany.

van Ravenzwaaij, D., Newell, B. R., Moore, C. P., & Lee, M. D. (2013, July). *Using Recognition in Multi-Attribute Decision Environments*. Poster presented at the annual meeting of Cognitive Science Society, Berlin, Germany.

van Ravenzwaaij, D., Boekel, W., Forstmann, B. U., Ratcliff, R., & Wagenmakers, E.-J. (2013, July). *Video Games: Our Defense Against Old Age?* Paper presented at the annual meeting of the Annual Summer Interdisciplinary Conference, Cortina d'Ampezzo, Italy.

van Ravenzwaaij, D., Moore, C., Lee, M. D., & Newell, B. R. (2012, July). *How to Collect Information in Uncertain Decision Environments?* Paper presented at the annual meeting of the Mathematical Psychology Society, Columbus, Ohio, USA.

van Ravenzwaaij, D., Mulder, M. J., & Wagenmakers, E.-J. (2011, December). *How do we Deal with Bias in Prior Information?* Paper presented at the semi-annual meeting of the Interuniversity Graduate School of Psychometrics and Sociometrics, Leiden, The Netherlands.

van Ravenzwaaij, D., Dutilh, G., & Wagenmakers, E.-J. (2011, July). *New Measure for Post-Error Slowing: Robustness to Global Changes in Task Performance*. Paper presented at the annual meeting of the Mathematical Psychology Society, Boston, Massachusetts, USA.

van Ravenzwaaij, D., van der Maas, H. L. J., & Wagenmakers, E.-J. (2010, July). *Conditions of Model Equivalence between the Diffusion Model and the LCA*. Paper presented at the annual meeting of the Mathematical Psychology Society, Portland, Oregon, USA.

van Ravenzwaaij, D., Dutilh, G., & Wagenmakers, E.-J. (2009, August). *The Effects of Alcohol: A Diffusion Model Decomposition*. Paper presented at the annual meeting of the Mathematical Psychology Society, Amsterdam, The Netherlands.

van Ravenzwaaij, D., Dutilh, G., & Wagenmakers, E.-J. (2009, June). *The Effects of Alcohol: A Diffusion Model Decomposition*. Paper presented at the meeting of the IOPS Summer Conference, Tilburg, The Netherlands.

van Ravenzwaaij, D., Wilhelm, O., Keye, D., & Oberauer, K. (2007, July). *Sequential Dependency in the Simon and Eriksen Flanker Task*. Poster presented at the annual meeting of the International Society on the Study of Individual Differences (ISSID), Giessen, Germany.

PUBLIC
OUTREACH

van Ravenzwaaij, D., Albers, C., Derksen, M., & Hoekstra, R. (2019, November). *“Citing is Easy, Reading is Hard”* Blogpost for Mindwise, a blog platform of the Department of Psychology at the University of Groningen. The article discusses sloppy citation practices and the need for careful reading.
<https://mindwise-groningen.nl/citing-is-easy-reading-is-hard/>

van Ravenzwaaij, D. (2018, February). *Guest at “The Bayes Factor Podcast”* Podcast hosted by Alexander Etz and ‘JP’ de Ruiter. Topics of conversation were my experience teaching undergraduate students about current statistical controversies, the FDA’s ‘two significant trial results’ policy, and the merits of the $p < .005$ proposal.
https://sites.tufts.edu/hilab/podcast/don_van_ravenzwaaij/

van Ravenzwaaij, D. (2017, June). *“The Myth of Objective Statistics”* Blogpost for Mindwise, a blog platform of the Department of Psychology at the University of Groningen. The article dispels the often encountered notion among students that there is one objectively correct way to do statistics (although there are many wrong ways to do statistics).
<https://mindwise-groningen.nl/the-myth-of-objective-statistics/>

van Ravenzwaaij, D. (2016, December). *“To p , or not to p ?”* Blogpost for Mindwise, a blog platform of the Department of Psychology at the University of Groningen. The article discusses everything that is wrong with conventional

Null Hypothesis Significance Testing.

<https://mindwise-groningen.nl/to-p-or-not-to-p/>

van Ravenzwaaij, D. (2016, April). *Moderator for the discussion part of the seminar “To P or not to P?”* Seminar organized by the Netherlands Society for Statistics and Operations Research in Utrecht, The Netherlands. The seminar is meant for young grad students with an interest in statistics.

van Ravenzwaaij, D. (2016, April). *We Need the Null!* Invited presentation for the Heymans Symposium at University Groningen, Groningen, The Netherlands. The format of this presentation was as a TED-talk and was meant to be accessible by a broad audience with general scientific interest.

https://www.youtube.com/watch?v=mZD_bF7L5uw

van Ravenzwaaij, D. (2016, March). *On the importance of statistics, the reproducibility crisis, and Magic the Gathering.* Podcast for Mindwise, a blog platform of the Department of Psychology of the University of Groningen, The Netherlands. Staff and students write in a personal capacity about psychological research and education in Groningen, and express their opinions on current affairs based on their expertise.

<https://soundcloud.com/mindwise-groningen/stats-1-with-don-don-van-ravenzwaaij-on-the-introductory-statistics-course>

<https://soundcloud.com/mindwise-groningen/don-van-ravenzwaaij-a-magical-statistician>

AD HOC
REVIEWING

I have reviewed papers for the following journals:

- *Behavior Research Methods*
- *British Journal of Mathematical and Statistical Psychology*
- *Cognition*
- *Cognitive Psychology*
- *Collabra: Psychology*
- *Computational Brain & Behavior*
- *Developmental Science*
- *Frontiers in Cognitive Science*
- *Journal of Experimental Psychology: General*
- *Journal of Experimental Psychology: Learning, Memory, & Cognition*
- *Journal of Mathematical Psychology*
- *Judgment and Decision Making*
- *Nature Human Behaviour*
- *Pharmaceutical Medicine*
- *PLoS One*
- *Proceedings of the National Academy of Sciences*
- *Psychological Methods*
- *Psychological Research*

- *Psychological Review*
- *Psychological Science*
- *Psychonomic Bulletin & Review*