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# CURRICULUM VITAE DORA MATZKE

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## PERSONAL

Date of birth 1 September 1982  
Place of birth Budapest, Hungary  
Nationality Hungarian  
Website <http://dora.erbe-matzke.com>  
Twitter [https://twitter.com/dora\\_matzke](https://twitter.com/dora_matzke)

## EMPLOYMENT

2016- Assistant Professor, Department of Psychology, Psychological Methods Unit, University of Amsterdam; permanent position (75% research)  
2013-2015 Assistant Professor, Department of Psychology, Psychological Methods Unit, University of Amsterdam; temporary position (50% research)

## EDUCATION

2009-2013 PhD-student with Eric-Jan Wagenmakers and Conor Dolan, Department of Psychology, Psychological Methods Unit, University of Amsterdam. Topic: Bayesian Explorations in Mathematical Psychology (Cum Laude)  
2007-2009 Research Master's Psychology, Specialization in Psychological Methods, University of Amsterdam (Cum Laude)  
2004-2007 Bachelor Psychology, Specialization in Psychological Methods, University of Amsterdam (Cum Laude)

## HONORS AND AWARDS

2019 Elected fellow of the Psychonomic Society  
2018 Elected fellow of the Young Academy (De Jonge Akademie; <https://www.dejongeakademie.nl/nl>) of the Royal Netherlands Academy of Arts and Sciences

2016	Early Career Award from the Society for Experimental Psychology and Cognitive Science (Division 3 of the American Psychological Association)
2015	Inaugural Leamer-Rosenthal Prize for Emerging Researchers (Berkeley Initiative for Transparency in the Social Sciences; 10.000 USD)
2015	Association for Psychological Science (APS) Rising Star
2012, 2013	Student Travel Award, Society for Mathematical Psychology (200 USD)
2009	Unilever Research prize (€2.500)
2008	Best Master's Thesis Award, Department of Psychology, University of Amsterdam (€250)

## COMPETITIVE GRANTS

2019	Young Academy Project Grant (De Jonge Akademie Projectbeurs; €10,000, co-applicant)
2017	Support provided by the DFG Deutsche Forschungsgemeinschaft for a scientific network on "Hierarchical MPT Modeling – Methodological Comparisons and Application Guidelines" (€62,950, network member)
2017	Competitive Evaluation Research Agreement grant awarded by the Australian Defence Science and Technology Group (100.000 AUD, co-applicant)
2017	Support from the William K. and Katherine W. Estes Fund for Advanced Training in Mathematical and Computational Modeling for Psychological Science for the "Model-based Neuroscience Summer School" (15.000 USD, co-applicant)
2016	Support from the William K. and Katherine W. Estes Fund for Advanced Training in Mathematical and Computational Modeling for Psychological Science for the "Bayesian Estimation of Evidence Accumulation Architectures in Neuroscience and Cognition" workshop (15.000 USD, co-applicant)
2015	Travel grant from the Visiting Fellowship and Visiting Scholarship Program of the University of Tasmania (7.000 AUD)
2015	Personal Veni grant awarded by the Netherlands Organization of Scientific Research (NWO; €250.000)

## PROFESSIONAL EXPERIENCE

### LECTURING & COURSE DEVELOPMENT

2017-	"Bayesian Inference for Psychological Science" (Research Master's Psychology)
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2016-	"Statistiek voor de Levenswetenschappen" (Statistics for the Life Sciences; Beta-Gamma and Future Planet Studies Bachelor)
2016-	"Good Research Practices" (Research Master's Psychology)
2016, 2017	"Bayesian Graphical Modeling" (Research Master's Psychology)
2016	Basiskwalificatie Onderwijs Certificaat (BKO)
2015-	"Methoden van Onderzoek en Statistiek 2" (Research Methods and Statistics 2; Psychobiology Bachelor)
2015	"Good Science Bad Science" (Research Master's Psychology)
2015	"Meta-analysis" (Research Master's Psychology)
2015	"Bayesian Analysis" (Psychological Methods Bachelor)
2014	"Bayesian Statistics using JAGS" (Psychological Methods Bachelor)
2014	"Methoden van Onderzoek en Statistiek" (Research Methods and Statistics; Psychobiology Bachelor)
2014	"Statistiek in R" (Statistics using R; Psychobiology Bachelor)
2014	"Onderzoeksmethoden en Statistiek" (Research Methods and Statistics; Beta-Gamma Bachelor)
2014	"Miniscriptie Engels" (English Scientific Writing; Psychobiology Bachelor)
2013	"Cognitive Models for Cognitive Neuroscience: Bayesian Hierarchical Modeling" (Research Master's Psychology)
2012-	Thesis and internship (Research Master's Psychology)
2010-2013	"Onderzoekspracticum" (Research training; Psychology Bachelor)

## POST-DOC AND PHD-SUPERVISION

2017-2018	Udo Boehm (Post-doc; with Andrew Heathcote)
2016-	Quentin F. Gronau (PhD-student; with E.-J. Wagenmakers)
2015-2017	Udo Boehm (PhD-student; with E.-J. Wagenmakers; Cum Laude)

## UNIVERSITY ADMINISTRATION

2018 -	Education Committee Psychobiology (Onderwijscommissie)
2017-	Curriculum Committee of the Graduate School of Psychology
2017-	Executive Board of the Psychological Methods Unit

2015-2016 SMBP committee (Statistics and Methods Education in the Bachelor Psychology)

## RESEARCH VISITS

Feb-June 2019 University of Tasmania, Australia. Topic: Selective-stopping paradigms.

Nov 2018 University of Utah, USA. Topic: Modeling workload and attention failures with the Linear Ballistic Accumulator.

Feb 2018 University of Tasmania, Australia. Topic: Formal process models for the stop-signal paradigm.

April 2017 University of Utah, USA. Topic: Providing automation with situational awareness of operator workload.

Feb 2017 University of Newcastle, Australia. Topic: Bayes factors for evidence-accumulation models.

April 2016 University of Mannheim, Germany. Topic: Bayesian hierarchical multinomial processing trees.

Feb-Mar 2016 University of Tasmania, Australia. Topic: Dealing with messy stop-signal data.

Nov 2015 Vanderbilt University, USA. Topic: The stop-signal paradigm.

Nov 2014 Department of Mathematics and Statistics, Fylde College Lancaster University, UK. Topic: Reversible jump Markov chain Monte Carlo sampling for model selection in Bayesian hierarchical models.

Feb-Mar 2014 University of Newcastle, Australia. Topic: Bayesian estimation of trigger failures in the stop-signal paradigm.

## SOFTWARE DEVELOPMENT

DMC Co-developer of the Dynamic Models of Choice (DMC) package. DMC is a comprehensive set of R modules for the Bayesian hierarchical estimation of evidence-accumulation models, including models for the stop-signal paradigm. Available at: [osf.io/5yeh4](http://osf.io/5yeh4)

BEESTS-WTF Developer of BEESTS-WTF: Bayesian Ex-Gaussian estimation of stop-signal RT distributions with trigger failures. BEESTS-WTF is an open source, cross-platform Python and R-based application with an easy-to-use GUI. Available at: <http://dora.erbe-matzke.com/software.html>

BEESTS Developer of BEESTS: Bayesian Ex-Gaussian estimation of stop-signal RT distributions. BEESTS is an open source, cross-platform Python and R-based application with an easy-to-use GUI. Available at: <http://dora.erbe-matzke.com/software.html>

JASP Member of the JASP Development Team. JASP is stand-alone, GUI-based, open source, and cross platform package that provides classical and Bayesian equivalents of common statistical tests. Available at: <https://jasp-stats.org>

## ORGANIZATIONAL ACTIVITIES

- 2018- Part of the organizing committee for the Women of Math Psych Professional Development Symposium at the Annual Meeting of the Society for Mathematical Psychology (21 July, 2018, Maddison, USA)
- 2017- Part of the organizing committee for the "Model-based Neuroscience Summer School" (31 July-4 August, 2017; 30 July-3 August, 2018, Amsterdam; <https://modelbasedneurosci.com/>). The 2017 summer school was supported by the William K. and Katherine W. Estes Fund and the Netherlands Institute for Neuroscience.
- 2016 Part of the organizing committee for the workshop "Bayesian Estimation of Evidence Accumulation Architectures in Neuroscience and Cognition" (7-11 November, 2016, Boston, USA). The workshop was supported by the William K. and Katherine W. Estes Fund.
- 2016 Part of the organizing committee for the workshop "Pre-Registration as a Research and Publication Method" (12-13 May, 2016, Amsterdam).
- 2015- Part of the organizing committee for the "Theory and Practice of Bayesian Hypothesis Testing: A JASP Workshop" (6-7 August, 2015; 22-23 August, 2016; 28-29 August, 2017; 27-28 August, 2018, Amsterdam; <https://jasp-stats.org/workshop/>)
- 2015, 2019 Part of the organizing committee for the Erasmus Seminar on Mathematical Psychology: "Formal Models and Quantitative Methods for Psychology" (22-28 March, 2015; 25-29 March, 2019, Balatonföldvár, Hungary)
- 2011- Part of the organizing committee for the "Annual JAGS and WinBUGS Workshop: Bayesian Modeling for Cognitive Science" (22-26 August, 2011; 2-6 July, 2012; 12-16, August, 2013; 11-15 August, 2014; 10-14 August, 2015; 15-19 August, 2016; 21-25 August, 2017; 20-24 August, 2018, Amsterdam; <https://jasp-stats.org/jags-workshop/>)

## SERVICE TO THE FIELD

- 2018- Elected Fellow of the Young Academy (De Jonge Akademie; <https://www.dejongeakademie.nl/nl>) of the Royal Netherlands Academy of Arts and Sciences
- 2018- Member of the board of the Women of Mathematical Psychology of the Society for Mathematical Psychology (<http://mathpsych.org/wmp/>)

## CONSULTING

- 2015 Founder and statistical consultant in the Stats Store at the Department of Psychology, University of Amsterdam (<http://www.statsstore.socsci.uva.nl>)

## REVIEWING

*American Journal of Psychology, Behavior Research Methods, Biostatistics & Epidemiology, Cognition and Emotion, DFG Deutsche Forschungsgemeinschaft, Experimental Psychology, Frontiers in Neuroinformatics, Journal of Abnormal Child Psychology, Journal of the American*

*Statistical Association, Journal of Cognitive Neuroscience, Journal of Experimental Psychology: Human Perception and Performance, Journal of Experimental Psychology: Learning, Memory & Cognition, Journal of Mathematical Psychology, Multivariate Behavioral Research, Nature Communications, Psychonomic Bulletin & Review, PLOS ONE, Psychologica Belgica, Scientific Reports - Nature, Social Science Meta-Analysis and Research Transparency Grants (Berkeley Initiative for Transparency in the Social Sciences)*

## MEMBERSHIP/FELLOWSHIPS

American Psychological Association, European Society of Cognitive Psychology, Psychonomic Society, Society for Mathematical Psychology

## PUBLICATIONS

### SUBMITTED OR UNDER REVISION

Sarafoglou, A., Hoogeveen, S., **Matzke, D.**, & Wagenmakers, E.-J. Teaching good research practices: Protocol of a Research Master course. *Manuscript submitted for publication (Psychology Learning and Teaching)*.

Heathcote, A., Hannah, K., & **Matzke, D.** Priming and variable control in choice conflict tasks. *Manuscript submitted for publication (Psychological Review)*.

van Doorn, J., van den Bergh, D., Boehm, U., Dablander, F., Derks, K., Draws, T., Evans, N.J., Gronau, Q. F., Hinne, M., Kucharsky, S., Ly, A., Marsman, M., **Matzke, D.**, Raj, A.K.N., Sarafoglou, A., Stefan, A., Voelkel, A.G., & Wagenmakers, E.-J. The JASP guidelines for conducting and reporting a Bayesian analysis. *Manuscript submitted for publication (Psychonomic Bulletin & Review)*.

Boehm, U., **Matzke, D.**, Gretton, M., Castro, S., Cooper, J., Skinner, M., Strayer, D., & Heathcote, A. Real-time prediction of fluctuations in cognitive workload. *Manuscript submitted for publication (Journal of Experimental Psychology: Applied)*.

Gronau, Q.F., Heathcote, A., & **Matzke, D.** Computing Bayes factors for evidence-accumulation models using Warp-III bridge sampling. *Manuscript submitted for publication (Behavioral Research Methods)*.

### IN PRESS

Verbruggen, F., Aron, A. R., Band, G. P. H., Beste, C., Bissett, P. G., Brockett, A. T., Brown, J. W., Chamberlain, S. R., Chambers, C. D., Colonius, H., Colzato, L. S., Corneil, B. D., Coxon, J. P., Eagle, D. M., Dupuis, A., Garavan, H., Greenhouse, I., Heathcote, A., Huster, R. J., Jahfari, S., Kenemans, J. L., Leunissen, I., Logan, G. D., **Matzke, D.**, Morein-Zamir, S., Murthy, A., Li, C. S. R., Paré, M., Poldrack, R. A., Ridderinkhof, K. R., Robbins, T. W., Roesch, M. R., Rubia, K., Schachar, R. J., Schall, J. D., Stock, A-K., Swann, N. C., Thakkar, K. N., van der Molen, M. W., Vermeylen, L., Vink, M., Wessel, J. R., Whelan, R., Zandbelt, B. B., & Boehler, C. N. (in press). Capturing the ability to inhibit actions and impulsive behaviours: A consensus guide to the stop-signal task. *eLIFE*.

Lee, M., Criss, A.H., Devezer, B., Donkin, C., Etz, A., Leite, F., **Matzke, D.**, Rouder, J.N., Trueblood, J.S., White, C.N., & Vanderkerckhove, J. (in press). Robust modeling in cognitive science. *Computational Brain & Behavior*.

van Doorn, J., **Matzke, D.**, Wagenmakers, E.-J. (in press). An in-class demonstration of Bayesian inference. *Psychology Learning and Teaching*.

Castro, S., Strayer, D., **Matzke, D.**, & Heathcote, A. (in press). Cognitive workload measurement and modeling under divided attention. *Journal of Experimental Psychology: Human Perception and Performance*.

Weigard, A., Heathcote, A., **Matzke, D.**, & Huang-Pollock, C. (in press). Cognitive modeling suggests that attentional failures drive longer stop-signal reaction time estimates in ADHD. *Clinical Psychological Science*.

Stephens, R.G., **Matzke, D.**, & Hayes, B.K. (in press). Disappearing dissociations in experimental psychology: Using state-trace analysis to test for multiple processes. *Journal of Mathematical Psychology*.

## 2019

Heathcote, A., Lin, Y., Reynolds, A., Strickland, L., Gretton, M., & **Matzke, D.** (2019). Dynamic models of choice. *Behavior Research Methods*, *5*, 961-985.

**Matzke, D.**, Curely, S., Gong, C.Q., & Heathcote, A. (2019). Inhibiting responses to difficult choices. *Journal of Experimental Psychology: General*, *148*, 124-142.

Love, J., Selker, R., Marsman, M., Jamil, T., Dropmann, D., Verhagen, J., Ly, A., Gronau, Q.F., Smira, M., Epskamp, S., **Matzke, D.**, Wild, A., Knight, P., Rouder, J.N., Morey, R.D., & Wagenmakers, E.-J. (2019). JASP- Graphical statistical software for common statistical designs. *Journal of Statistical Software*, *88*, 1-17.

Gronau, Q.F., Wagenmakers, E.-J., Heck, D.W., & **Matzke, D.** (2019). A simple method for comparing complex models: Bayesian model comparison for hierarchical multinomial processing tree models using Warp-III bridge sampling. *Psychometrika*, *84*, 261-284.

Skippen, P., **Matzke, D.**, Heathcote, A., Fulham, W.R., Michie, P., Karayanidis, F. (2019). Reliability of triggering inhibitory process is a better predictor of impulsivity than SSRT. *Acta Psychologica*, *192*, 104-117.

## 2018

Derks, K., Burger, J., van Doorn, J., Kossakowski, J.J., **Matzke, D.**, Atticciati, L., ..., Wagenmakers, E.-J. (2018). Network models to organize a dispersed literature: A case of misunderstanding analysis of covariance. *Journal of European Psychology Students*, *9*, 48-57.

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 between-trial variability parameters of the diffusion decision model: Expert advice and recommendations. *Journal of Mathematical Psychology*, *87*, 46-75.

Boehm, U., Marsman, M., **Matzke, D.**, & Wagenmakers, E.-J. (2018). On the importance of avoiding shortcuts in applying cognitive models to hierarchical data. *Behavioral Research Methods*, *50*, 1614-1631.

Beek, T.F., **Matzke, D.**, Pinto, Y., Rotteveel, M., Gierholz, A., Verhagen, J., ..., Wagenmakers, E.-J. (2018). Incidental haptic sensations may not influence social judgements: A purely

confirmatory replication attempt of Study 1 by Ackerman, Noreca, & Bargh (2010). *Journal of Articles in Support of the Null Hypothesis*, 14, 69-90.

**Matzke, D.**, Verbruggen, F., & Logan, G. (2018). The stop-signal paradigm. In E.-J. Wagenmakers & J.T. Wixted (Eds.), *Stevens' handbook of experimental psychology and cognitive neuroscience, Volume five: Methodology (4th ed.)*, pp. 383-427. John Wiley & Sons, Inc.

Sebastian, A., Forstmann, B.U., & **Matzke, D.** (2018). Towards a model-based cognitive neuroscience of stopping: A neuroimaging perspective. *Neuroscience & Biobehavioral Reviews*, 90, 130-136.

Wagenmakers, E.-J., Marsman, M., Jamil, T., Ly, A., Verhagen, A.J., Love, J., Selker, R., Gronau, Q.F., Smira, M., Epskamp, S., **Matzke, D.**, Rouder, J.N., & Morey, R.D. (2018). Bayesian inference for psychology. Part I: Theoretical advantages and practical ramifications. *Psychonomic Bulletin & Review*, 25, 35-57.

Wagenmakers, E.-J., Love, J., Marsman, M., Jamil, T., Ly, A., Verhagen, A.J., Selker, R., Gronau, Q.F., Dropmann, D., Boutin, B., Meerhoff, F., Knight, P., Raj, A., van Kesteren, E.-J., van Doorn, J., Smira, M., Epskamp, S., Etz, A., **Matzke, D.**, Rouder, J.N., & Morey, R.D. (2018). Bayesian inference for psychology. Part II: Example applications with JASP. *Psychonomic Bulletin & Review*, 25, 58-76.

**Matzke, D.**, Boehm, U., & Vandekerckhove, J. (2018). Bayesian inference for psychology. Part III: Parameter estimation in nonstandard models. *Psychonomic Bulletin & Review*, 25, 77-101.

Ly, A., Boehm, U., Heathcote, A., Turner, B.M., Forstmann, B., Marsman, M., & **Matzke, D.** (2018). A flexible and efficient hierarchical Bayesian approach to the exploration of individual differences in cognitive-model-based neuroscience. In A.A. Moustafa (Ed.) *Computational models of brain and behavior*, pp. 467-480. Wiley Blackwell.

## 2017

Gronau, Q. F., Sarafoglou, A., **Matzke, D.**, Ly, A., Boehm, U., Marsman, M., Leslie, D. S., Forster, J.J., Wagenmakers, E.-J., & Steingroever, H. (2017). A tutorial on bridge sampling. *Journal of Mathematical Psychology*, 81, 80-97.

**Matzke, D.**, Ly, A., Selker, R., Weeda, W. D., Scheibehenne, B., Lee, M. D., & Wagenmakers, E.-J. (2017). Bayesian inference for correlations in the presence of estimation uncertainty and measurement error. *Collabra: Psychology*, 3(1), 25.

Kryptos, A.-M., Blanken, T.F., Arnaudova, I., **Matzke, D.**, & Beckers, T. (2017). A primer on Bayesian analysis for experimental psychopathologists. *Journal of Experimental Psychopathology*, 8, 140-157.

**Matzke, D.**, Hughes, M., Badcock, J.C., Michie, P., & Heathcote, A. (2017). Failures of cognitive control or attention? The case of stop-signal deficits in schizophrenia. *Attention, Perception, & Psychophysics*, 79, 1078-1086.

Dutilh, G., Vandekerckhove, J., Ly, A., **Matzke, D.**, Pedroni, A., Frey, R., Rieskamp, J., & Wagenmakers, E.-J. (2017). A test of the diffusion model explanation of the worst performance rule using preregistration and blinding. *Attention, Perception, & Psychophysics*, 79, 713-725.

Wagenmakers, E.-J., Verhagen, A.J., Ly, A., **Matzke, D.**, Steingroever, H., Rouder, J.N., & Morey, R.D. (2017). The need for Bayesian hypothesis testing in psychological science. In Lilienfeld, S.O., & Waldman, I. (Eds.), *Psychological science under scrutiny: Recent challenges and proposed solutions*, pp. 123-138. John Wiley and Sons.



**Matzke, D.**, Love, J., & Heathcote A. (2017). A Bayesian approach for estimating the probability of trigger failures in the stop-signal paradigm. *Behavior Research Methods*, 49, 267-281.

## 2016

Cramer, A.O.J., van Ravenzwaaij, D., **Matzke, D.**, Steingroever, H., Wetzels, R., Grasman, R.P.P.P., Waldorp, L., & Wagenmakers, E.-J. (2016). Hidden multiplicity in exploratory multiway ANOVA: Prevalence and remedies. *Psychonomic Bulletin & Review*, 23, 640-647.

## 2015

Wagenmakers, E.-J., Verhagen, A.J., Ly, A., Bakker, M., Lee, M.D., **Matzke, D.**, Rouder, J.N., & Morey, R.D. (2015). A power fallacy. *Behavior Research Methods*, 47, 913-917.

Wagenmakers, E.-J., Beek, T.F., Rotteveel, M., Gierholz, A., **Matzke, D.**, Steingrover, H., ..., Pinto, Y. (2015). Turning the hands of time again: A purely confirmatory replication study and a Bayesian analysis. *Frontiers in Psychology: Cognition*, 6:494.

**Matzke, D.**, Dolan, C.V, Batchelder, W.H., & Wagenmakers, E.-J. (2015). Bayesian estimation of multinomial processing tree models with heterogeneity in participants and items. *Psychometrika*, 80, 205-235.

Rotteveel, M., Gierholz, A., Koch, G., van Aalst, C., Pinto, Y., **Matzke, D.**, ..., Wagenmakers, E.-J. (2015). On the automatic link between affect and tendencies to approach and avoid: Chen and Bargh (1999) revisited. *Frontiers in Psychology: Cognition*, 6:335.

van Elk, M., **Matzke, D.**, Gronau, Q, Guan, M., Vanderkerckhove, J., & Wagenmakers, E.-J. (2015). Meta-analyses are no substitute for registered replications: A skeptical perspective on religious priming. *Frontiers in Psychology: Personality and Social Psychology*, 6:1365.

**Matzke, D.**, Nieuwenhuis, S., van Rijn, H., Slagter, H.A, van der Molen, M.W, & Wagenmakers, E.-J. (2015). The effect of horizontal eye movements on free recall: A preregistered adversarial collaboration. *Journal of Experimental Psychology: General*, 144, e1-e15.

Vandekerckhove, J., **Matzke, D.**, & Wagenmakers, E.-J. (2015). Model comparison and the principle of parsimony. In J. Busemeyer, J. Townsend, Z.J. Wang, & A. Eidels (Eds.), *The Oxford handbook of computational and mathematical psychology*, pp. 300-319. Oxford: Oxford University Press.

Nuijten, M.B., Wetzels, R., **Matzke, D.**, Dolan, C.V., & Wagenmakers, E.-J. (2015). A default Bayesian hypothesis test for mediation. *Behavior Research Methods*, 47, 85-97.

Love, J., Selker, R., Verhagen, J., Marsman, M., Gronau, Q.F., Jamil, T., ..., **Matzke, D.**, ..., Rouder, J.N. (2015). Software to sharpen your stats. *APS Observer*, 28, 27-29.

## 2014

de Groot, A.D. (1956/2014). The meaning of "significance" for different types of research. Translated and annotated by Eric-Jan Wagenmakers, Denny Borsboom, Josine Verhagen, Rogier Kievit, Marjan Bakker, Angelique Cramer, **Dora Matzke**, Don Mellenbergh, and Han L.J. van der Maas. *Acta Psychologica*, 148, 188-194.

## 2013

**Matzke, D.** (2013). Bayesian explorations in mathematical psychology. *Doctoral dissertation*.

**Matzke, D.**, Lee, M.D., & Wagenmakers, E.-J. (2013). Getting started with WinBUGS. In M.D. Lee, & E.-J. Wagenmakers, *Bayesian cognitive modeling: A practical course* (pp. 16-34). Cambridge University Press.

**Matzke, D.**, Lee, M.D., & Wagenmakers, E.-J. (2013). Signal detection theory: Parameter expansion. In M.D. Lee, & E.-J. Wagenmakers, *Bayesian cognitive modeling: A practical course* (pp. 164-167). Cambridge University Press.

**Matzke, D.**, Lee, M.D., & Wagenmakers, E.-J. (2013). Multinomial processing trees. In M.D. Lee, & E.-J. Wagenmakers, *Bayesian cognitive modeling: A practical course* (pp. 187-195). Cambridge University Press.

Bakker, M., Cramer, A.O.J., **Matzke, D.**, Kievit, R.A., van der Maas, H.L.J., Wagenmakers, E.-J., & Borsboom, D. (2013). Dwelling on the past. *European Journal of Personality*, 27, 120-144. Open peer commentary on Asendorp et al., "Recommendations for increasing replicability in psychology".

**Matzke, D.**, Love, J., Wiecki, T.V., Brown, S.D., Logan, G.D., & Wagenmakers, E.-J. (2013). Release the BEESTS: Bayesian ex-Gaussian estimation of stop-signal reaction time distributions. *Frontiers in Psychology: Quantitative Psychology and Measurement*, 4:918.

**Matzke, D.**, Dolan, C.V, Logan, G.D., Brown, S.D., & Wagenmakers, E.-J. (2013). Bayesian parametric estimation of stop-signal reaction time distributions. *Journal of Experimental Psychology: General*, 142, 1047-1073.

## 2011

Wetzels, R., **Matzke, D.**, Lee, M.D., Rouder, J.N., Iverson, G.J., & Wagenmakers, E.-J. (2011). Statistical evidence in experimental psychology: An empirical comparison using 855 *t* tests. *Perspectives on Psychological Science*, 6, 291-298.

## 2010

**Matzke, D.**, Dolan, C.V., & Molenaar, D. (2010). The issue of power in the identification of "g" with lower-order factors. *Intelligence*, 38, 336-344.

## 2009

**Matzke, D.**, & Wagenmakers, E.-J. (2009). Psychological interpretation of the ex-Gaussian and shifted Wald parameters: A diffusion model analysis. *Psychonomic Bulletin & Review*, 16, 798-817.

**Number of citations: 2251, h-index: 20, i10-index: 27** (Google Scholar, 11 May, 2019)

## (INVITED) TALKS & PRESENTATIONS

**Matzke, D.** (2019). Inhibiting responses to difficult choices: From simple descriptive to cognitive process models of the stop-signal paradigm. Invited talk at the University of Western Australia, Australia.

**Matzke, D.,** Curley, S., Gong, C.Q., & Heathcote, A. (2019). Inhibiting responses to difficult choices. Talk at the Experimental Psychology Conference, Wellington, New Zealand.

**Matzke, D.,** Stephens, R.G., & Hayes, B.K. (2018). Disappearing dissociations in experimental psychology. Talk at the Annual Meeting of the Psychonomic Society, New Orleans, USA.

**Matzke, D.,** Curley, S., Heathcote, A. (2017). Response inhibition in the real world: A Bayesian hierarchical model for messy stop-signal data. Talk at the Annual Meeting of the Psychonomic Society, Vancouver, Canada.

**Matzke, D.** & Heathcote, A. (2017). The lognormal-race model of response inhibition: A simple process model of performance in the stop-signal paradigm. Talk at Annual Meeting of the Society for Mathematical Psychology, University of Warwick, UK.

**Matzke, D.,** Gronau, Q., & Wagenmakers, E.-J. (2017). Bridge sampling: A simple yet powerful method for comparing complex cognitive models. Talk at the Australasian Mathematical Psychology Conference, Brisbane, Australia.

**Matzke, D.,** Boehm, U., Marsman, M., & Wagenmakers, E.-J. (2016). On the importance of avoiding shortcuts in modelling hierarchical data. Talk at Annual Meeting of the Society for Mathematical Psychology, New Brunswick, New Jersey, USA.

**Matzke, D.,** Boehm, U., Marsman, M., & Wagenmakers, E.-J. (2016). On the importance of avoiding shortcuts in modelling hierarchical data. Talk at Annual Summer Interdisciplinary Conference, Selva Val Gardena, Italy.

**Matzke, D.,** Badcock, J.C., Hughes, M.E., Michie, P.T., & Heathcote, A. (2016). A Bayesian approach for quantifying the contribution of trigger failures to response inhibition performance: Evidence for triggering deficiencies in schizophrenia. Invited talk at the Annual Convention of the American Psychological Association, Chicago, Illinois, USA.

**Matzke, D.** (2016). Bayesian hierarchical methods in psychology: Two case studies in cognitive modeling. Invited talk at Cognitive Psychology and Individual Differences Group of the University of Mannheim, Mannheim, Germany.

**Matzke, D.** (2015). A Bayesian approach for estimating SSRT distributions and the probability of trigger failures in the stop-signal paradigm. Invited talk at the Department of Psychology, Vanderbilt University, Nashville, USA.

**Matzke, D.,** Love, J., & Heathcote, A. (2015). A Bayesian approach for estimating the probability of trigger failures in the stop-signal paradigm. Talk at Annual Summer Interdisciplinary Conference, Mammoth Lakes, California, USA.

**Matzke, D.,** Brown, S.D., Michie, P., & Heathcote, A. (2014). A Bayesian approach for estimating the probability of trigger failures in the stop-signal paradigm. Talk at Annual Meeting of the Society for Mathematical Psychology, Quebec City, Canada.

**Matzke, D.** (2014). A Bayesian parametric approach for estimating the distribution of stop-signal reaction times. Invited talk at the Cognition Lab at the University of Newcastle, Australia.

**Matzke, D.**, Love, J., Wiecki, T., Brown, S.D., Logan, G.D., & Wagenmakers, E.-J. (2013). BEESTS: Bayesian estimation of stop-signal reaction time distributions. Talk at the Conference of the European Society for Cognitive Psychology, Budapest, Hungary.

**Matzke, D.**, Love, J., Wiecki, T., Brown, S.D., Logan, G.D., & Wagenmakers, E.-J. (2013). BEESTS: Bayesian estimation of stop-signal reaction time distributions. Talk at the Annual Meeting of the Society for Mathematical Psychology, University of Potsdam, Potsdam, Germany.

**Matzke, D.**, Dolan, C.V, Batchelder, W.H., & Wagenmakers, E.-J. (2012). Bayesian estimation of multinomial processing tree models with heterogeneity in participants and items. Talk at the Annual Meeting of the Society for Mathematical Psychology, Columbus, Ohio, USA.

**Matzke, D.**, Dolan, C.V, Logan, G.D., Brown, S.D., & Wagenmakers, E.-J. (2011). A Bayesian parametric approach for estimating the distribution of stop-signal reaction times. Poster at the winter conference of De Nederlandse Vereniging voor Psychonomie (NVP; Dutch Psychonomic Society), Egmond aan Zee, The Netherlands.

**Matzke, D.**, Dolan, C.V, Logan, G.D., Brown, S.D., & Wagenmakers, E.-J. (2011). A Bayesian parametric approach for estimating the distribution of stop-signal reaction times. Talk at the Annual Meeting of the Society for Mathematical Psychology, Tufts University, Medford, Massachusetts, USA.

**Matzke, D.** & Wagenmakers, E.-J. (2009). Psychological interpretation of the ex-Gaussian and shifted Wald parameters: A diffusion model analysis. Poster at the Annual Meeting of the Society for Mathematical Psychology, University of Amsterdam, Amsterdam, The Netherlands.

**Matzke, D.** & Wagenmakers, E.-J. (2009). Psychological interpretation of the ex-Gaussian and shifted Wald parameters: A diffusion model analysis. Invited talk at the Unilever Research Prize award ceremony.

*Note: Only first-author presentations are listed.*