CONTACT INFORMATION

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EMPLOYMENT HISTORY

| 2016-present | Associate Professor, Department of Cognitive Sciences |
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| | University of California, Irvine |
| 2015-present | Affiliated Faculty, Department of Statistics |
| | University of California, Irvine |
| 2011-present | Affiliated Faculty, Institute for Mathematical Behavioral Sciences |
| | University of California, Irvine |
| 2011 - 2016 | Assistant Professor, Department of Cognitive Sciences |
| | University of California, Irvine |
| 2011-present | Research Fellow, Faculty of Psychology and Educational Sciences |
| | University of Leuven, Belgium |
| 2010 - 2012 | Post-Doctoral Fellow |
| | Research Foundation—Flanders (FWO) |
| 2009 - 2010 | Post-Doctoral Research Associate, Faculty of Medicine |
| | University of Leuven, Belgium |

EDUCATION

| 2005 - 2009 | PhD in Quantitative Psychology and Psychometrics |
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| | University of Leuven, Belgium |
| 2002 - 2005 | Master in Psychology (Licentiate) |
| | University of Leuven, Belgium |
| 2000 - 2002 | Bachelor in Psychology (Candidate) |
| | University of Leuven, Belgium |

Professional memberships (past and present)

Fellow of the Psychonomic Society
Member of the Society for Mathematical Psychology
Member of the Psychometric Society
Member of the European Society for Cognitive Psychology
Member of the International Society for Research in Emotion
Member of the American Statistical Association

Research

RESEARCH INTERESTS

Stochastic process models Computational modeling of cognition

Bayesian statistics Computational methods

Individual differences Psychometrics
Integrative modeling Data fusion
Robust science Meta-analysis

EXTRAMURAL GRANTS

| June 2021 | National Science Foundation grant #2051186: "Exploratory and confirmatory neurocognitive modeling with latent variables." 36 months. Role: Principal Investi- |
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| | gator (with R. Srinivasan). \$349,551.00 |
| September 2019 | National Science Foundation grant #1850849: "Critical tests of neurocognitive relationships." 36 months. Role: Principal Investigator (with R. Srinivasan). \$674,807.00 |
| Eshaniami 0010 | |
| February 2018 | National Science Foundation grant #1754205: "RR: Workshop on Robust Social and Behavioral Sciences." 12 months. Role: Principal Investigator (with M. D. Lee). \$62,391.00 |
| April 2017 | National Science Foundation grant #1658303: "Estimation of unidentified cognitive |
| April 2011 | models with physiological data." 24 months. Role: Principal Investigator (with |
| | R. Srinivasan). \$337,028.00 |
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| April 2016 | National Science Foundation: Graduate Research Fellowship Award (DGE-1321846; |
| 7 0046 | Awarded to advisee Alexander Etz). 36 months. Role: Adviser. \$132,000.00 |
| January 2016 | William K. and Katherine W. Estes Fund (Psychonomic Society and Association |
| | for Psychological Science): "Summer school for computational cognitive modeling". |
| | Role: Contributor (with S. Lewandowsky and K. Oberauer). \$15,000.00 |
| $September\ 2015$ | National Science Foundation grant #1534472: "Bayesian methods for meta-analysis |
| | in the presence of publication bias." 36 months. Role: Principal Investigator. \$260,000.00 |
| July 2015 | European Society for Cognitive Psychology: "Summer school for computational cognitive modeling". Role: Contributor (with S. Lewandowsky and K. Oberauer). \$22,000.00 |
| July 2015 | National Science Foundation: "Support for the Applications of Mathematical Psy- |
| • | chology to Industry meeting". Role: Organizer (with J. Trueblood). \$5,000.00 |
| June 2014 | John Templeton Foundation grant #48192: "A formal modeling framework for the |
| | dynamics of subjective well-being." 36 months. Role: Principal Investigator. \$540,018.00 |
| $April\ 2014$ | National Science Foundation: Graduate Research Fellowship Award (DGE-1321846; |
| | Awarded to advisee Maime Guan). 36 months. Role: Adviser. \$121,500.00 |
| February 2014 | Volkswagen Foundation teaching grant: "Summer school for computational cogni- |
| | tive modeling". Role: Contributor. (with S. Lewandowsky and K. Oberauer). \$70,000.00 |
| September 2012 | National Science Foundation grant #1230118: "Cognitive structural equation models." 36 months. Role: Principal Investigator. \$250,000.00 |
| October 2010 | Research Foundation—Flanders postdoctoral research grant: "Dynamic cognitive |
| 200001 2010 | psychometrics." 36 months. \$200,000.00 |
| October 2009 | University of Leuven Research Council postdoctoral research grant: "A statistical |
| 200001 2000 | framework for Approximate Bayesian Computation." 12 months. \$65,000.00 |
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Intramural Grants

| $July \ 2015$ | UC Irvine School of Social Sciences Office of the Dean: "Support for the Applica- |
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| | tions of Mathematical Psychology to Industry meeting". Role: Organizer. \$3,000.00 |
| $July \ 2015$ | UC Irvine School of Social Sciences Office of Graduate Affairs: "Support for the 48th |
| | Meeting of the Society for Mathematical Psychology". Role: Principal organizer |
| | (with J. Trueblood). \$3,000.00 |
| $July \ 2015$ | UC Irvine Department of Cognitive Sciences: "Support for the 48th Meeting of the |
| | Society for Mathematical Psychology". Role: Principal organizer (with J. True- |
| | blood). \$2,500.00 |
| $November\ 2012$ | UC Irvine School of Social Sciences: "Interfacing Models with Brain Signals to |
| | Investigate Cognition". Role: Co- Principal Investigator (with R. Srinivasan, and |
| | J. Krichmar). \$4,000.00 |
| June 2012 | UC Irvine Summer Undergraduate Research Program (SURP): "Publication Bias |
| | in Three Prominent Psychological Journals". Role: Adviser (with M. Guan). |
| | \$2,000.00 |
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PROFESSIONAL RECOGNITIONS

| July 2020 December 2016 | UC Irvine School of Social Sciences Outstanding Teaching Award (Spring 2020) UC Irvine Social Science Assistant Professor Research Award (\$5,000) |
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| December 2016 | My student Beth Baribault won the Berkeley Initiative for Transparency in the |
| | Social Sciences' Leamer-Rosenthal Prize for Open Social Science for her work under my supervision (\$10,000) |
| September 2015 | UC Irvine School of Social Sciences Outstanding Teaching Award (Spring 2015) |
| July 2014 | Society for Mathematical Psychology's William K. Estes Early Career Award (\$1,250) |

RECENT TALKS

Vandekerckhove, J. (2018, September). Cognitive psychometrics for multimodal data. Invited presentation at the Second Summer School on Statistical Methods for Linguistics and Psychology, Potsdam, Germany.

Vandekerckhove, J. (2018, July). Robust tests of theory with randomly sampled experiments. Annual Meeting of the Society for Mathematical Psychology, Madison, WI

Vandekerckhove, J. (2017, November). Publication bias and statistical evidence in the psychological literature. Annual Meeting of the Psychonomic Society, Vancouver, Canada.

Vandekerckhove, J. (2017, September). Some Bayesian and psychometric thoughts on the reproducibility crisis. Invited presentation at the Stanford Cognitive Sciences seminar.

Vandekerckhove, J. (2017, March). Statistical power and evidence in the psychological literature. Invited presentation at the Arthur M. Sackler Colloquium of the National Academy of Sciences. Washington, DC.

Vandekerckhove, J. (2017, February). Mitigation of publication bias with behavioral process models. Annual Interdisciplinary Conference. Breckenridge, CO.

Published Work

- 66. Etz, A., Goodman, S., & Vandekerckhove, J. (in press). Statistical Inference in Behavioral Research: Traditional and Bayesian Approaches. Research Integrity in the Behavioral Sciences. Via https://escholarship.org/uc/item/3bn356vg.
- 65. Morey, R. D., Kaschak, M. P, Diez-Álamo, A. M, Glenberg, A. M, Zwaan, R. A., Lakens, D., Ibáñez, A., Garcia, A., Gianelli, C., Jones, J. L, Madden, J., Alifano, F., Bergen, B., Bloxsom, N. G, Bub, D. N, Cai, Z. G, Chartier, C. R, Chatterjee, A., Conwell, E., Cook, S. W, Davis, J. D, Evers, E., Girard, S., Harter, D., Hartung, F., Herrera, E., Huettig, F., Humphries, S., Juanchich, M., Kühne, K., Lu, S., Lynes, T., Masson, M. EJ, Ostarek, M., Pessers, S., Reglin, R., Steegen, S., Thiessen, E. D, Thomas, L. E, Trott, S., Vandekerckhove, J., Vanpaemel, W., Vlachou, M., Williams, K., & Ziv-Crispel, N. (in press). A Pre-registered, Multi-lab Non-replication of the Action-sentence Compatibility Effect (ACE). Psychonomic Bulletin & Review.
- 64. Devezer, B., Navarro, D. J., **Vandekerckhove, J.**, & Buzbas, E. O. (2021). The case for formal methodology in scientific reform. *Royal Society Open Science*. doi:10.1098/rsos.200805. Via https://www.biorxiv.org/content/10.1101/2020.04.26.048306v2.
- 63. Lui, K. K, Nunez, P. L., Cassidy, J. M, Vandekerckhove, J., Cramer, S. C, & Srinivasan, R. (2020). Timing of Readiness Potentials Reflect a Decision-making Process in the Human Brain. *Computational Brain & Behavior*. doi:10.1007/s42113-020-00097-5. Via https://www.biorxiv.org/content/10.1101/338806v3.
- 62. Guan, M., Stokes, R., **Vandekerckhove**, **J.**, & Lee, M. D. (2020). A cognitive modeling analysis of risk in sequential choice tasks. *Judgement & Decision Making*, 15, 823-850. Via psyarxiv.com/evzp9/download.
- Lucio, P. S., Vandekerckhove, J., Polanczyk, G. V., & Cogo-Moreira, H. (2020). Is it worthwhile
 to take account of "guessing" in the performance of the Raven test? Calling for the principle of
 parsimony for test validation. *Journal of Psychoeducational Assessment*, 39, 100-111. doi:10.1177/
 0734282920930923.
- 60. van den Bergh, D., Bogaerts, S., Spreen, M., Flohr, R., Vandekerckhove, J., Batchelder, W. H., & Wagenmakers, E. (2020). Cultural consensus theory for the evaluation of patients' mental health scores in forensic psychiatric hospitals. *Journal of Mathematical Psychology*, 98, 102383. doi:10.1016/j.jmp.2020.102383. Via psyarxiv.com/8rqu3/download.
- 59. Oravecz, Z., & Vandekerckhove, J. (2020). A joint process model of consensus and longitudinal dynamics. *Journal of Mathematical Psychology*, pp. 102386. doi:10.1016/j.jmp.2020.102386. Via psyarxiv.com/xyghj/download.
- 58. Aczel, B., Hoekstra, R., Gelman, A., Wagenmakers, E., Klugkist, I. G., Rouder, J. N., Vandeker-ckhove, J., Lee, M. D., Morey, R. D., Vanpaemel, W., Dienes, Z., & van Ravenzwaaij, D. (2020). Discussion points for Bayesian inference. *Nature Human Behavior*, 4, 561–563. doi:10.1038/s41562-019-0807-z. Via psyarxiv.com/23m7f/download.
- 57. Oravecz, Z., Dirsmith, J., Heshmati, S., Vandekerckhove, J., & Brick, T. R. (2020). Psychological well-being and personality traits are associated with experiencing love in everyday life. *Personality and Individual Differences*, 154, 109620. doi:10.1016/j.paid.2019.109620.
- 56. Vandekerckhove, J., White, C. N., Trueblood, J. S., Rouder, J. N., Matzke, D., Leite, F. P., Etz, A., Donkin, C., Devezer, B., Criss, A. H., & Lee, M. D. (2019). Robust diversity in cognitive science. Computational Brain & Behavior, 2, 271–276. doi:10.1007/s42113-019-00066-7. Via psyarxiv.com/6bu7s/download.
- 55. Nunez, M. D., Gosai, A., **Vandekerckhove, J.**, & Srinivasan, R. (2019). The latency of a visual evoked potential tracks the onset of decision making. *NeuroImage*, 197, 93–108. doi:10.1016/j.neuroimage. 2019.04.052. Via www.cidlab.com/prints/nunez2019latency.pdf.

- 54. Lee, M. D., Criss, A. H., Devezer, B., Donkin, C., Etz, A., Leite, F. P., Matzke, D., Rouder, J. N., Trueblood, J. S., White, C. N., & Vandekerckhove, J. (2019). Robust modeling in cognitive science. Computational Brain & Behavior, 2, 141–153. doi:10.1007/s42113-019-00029-y. Via psyarxiv.com/dmfhk/download.
- 53. Schubert, A., Nunez, M. D., Hagemann, D., & Vandekerckhove, J. (2019). Individual differences in cortical processing speed predict cognitive abilities: A model-based cognitive neuroscience account. *Computational Brain & Behavior*, 2, 64–84. doi:10.1007/s42113-018-0021-5. Via www.cidlab.com/prints/schubert2019individual.pdf.
- 52. Dutilh, G., Annis, J., Brown, S. D., Cassey, P., Evans, N. J., Grasman, R. P. P. P., Hawkins, G. E., Heathcote, A., Holmes, W. R., Krypotos, A., Kupitz, C. N., Leite, F. P., Lerche, V., Lin, Y., 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. (2019). The quality of response time data inference: A blinded, collaborative approach to the validity of cognitive models. *Psychonomic Bulletin & Review*, 26, 1051–1069. doi:10.3758/s13423-017-1417-2. Via psyarxiv.com/s2x32/download.
- 51. Heshmati, S., Oravecz, Z., Pressman, S., Batchelder, W. H., Muth, C., & Vandekerckhove, J. (2019). What does it mean to feel loved? Cultural agreement and individual differences. *Journal of Social and Personal Relationships*, 36, 214-243. doi:10.1177/0265407517724600.
- 50. Mistry, P. K, Pothos, E. M., Vandekerckhove, J., & Trueblood, J. S. (2018). A quantum probability account of individual differences in causal reasoning. *Journal of Mathematical Psychology*, 87, 76–97. doi:10.1016/j.jmp.2018.09.003.
- 49. Etz, A., Haaf, J. M., Rouder, J. N., & Vandekerckhove, J. (2018). Bayesian inference and testing any hypothesis you can specify. *Advances in Methods and Practices in Psychological Science*, 1, 281–295. doi:10.1177/2515245918773087. Via psyarxiv.com/wmf3r/download.
- 48. Vandekerckhove, J., Rouder, J. N., & Kruschke, J. (2018). Editorial: Bayesian methods for advancing psychological science. *Psychonomic Bulletin & Review*, 25, 1–4. doi:10.3758/s13423-018-1443-8. Via psyarxiv.com/8rk4u/download.
- 47. Baribault, B., Donkin, C., Little, D. R., Trueblood, J. S., Oravecz, Z., van Ravenzwaaij, D., White, C. N., De Boeck, P., & Vandekerckhove, J. (2018). Metastudies for robust tests of theory. *Proceedings of the National Academy of Sciences*, 115, 2607–2612. doi:10.1073/pnas.1708285114. Via osf.io/g84py/download.
- 46. Rouder, J. N., Haaf, J. M., & Vandekerckhove, J. (2018). Bayesian Inference in Psychology, Part IV: Parameter estimation and Bayes factors. *Psychonomic Bulletin & Review*, 25, 102–113. doi:10. 3758/s13423-017-1420-7. Via osf.io/bvjg8/download.
- 45. Matzke, D., Boehm, U., & Vandekerckhove, J. (2018). Bayesian Inference in Psychology, Part III: Bayesian parameter estimation in nonstandard models. *Psychonomic Bulletin & Review*, 25, 77–101. doi:10.3758/s13423-017-1394-5. Via osf.io/trhsy/download.
- 44. Etz, A., & Vandekerckhove, J. (2018). Introduction to Bayesian inference for psychology. *Psychonomic Bulletin & Review*, 25, 5–34. doi:10.3758/s13423-017-1262-3. Via psyarxiv.com/q46q3/download.
- 43. Okada, K., Vandekerckhove, J., & Lee, M. D. (2018). Modeling when people quit: Bayesian censored geometric models with hierarchical and latent-mixture extensions. *Behavior Research Methods*, 50, 406–415. doi:10.3758/s13428-017-0879-5. Via osf.io/gytqz/download.
- 42. Dutilh, G., Vandekerckhove, J., Ly, A., Matzke, D., Pedroni, A., Frey, R., Rieskamp, J., & Wagenmakers, E. (2017). A test of the diffusion model explanation for the Worst Performance Rule using preregistration and blinding. *Attention, Perception, and Performance*, 79, 713–725. doi:10.3758/s13414-017-1304-y. Via www.cidlab.com/prints/dutilh2017test.pdf.

- 41. 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. doi:10.3758/s13423-016-1081-y. Via www.cidlab.com/prints/vanravenzwaaij2016ez.pdf.
- 40. Lucio, P. S., Salum, G. A., Rohde, L. A. P., Gadelha, A., Swardfager, W., Vandekerckhove, J., Pan, P. M., Polanczyk, G. V., do Rosario, M. C., Jackowski, A. P., Mari, J. d. J., & Cogo-Moreira, H. (2017). Poor stimulus discriminability as a common neuropsychological deficit between ADHD and reading ability in young children: a moderated mediation model. *Psychological Medicine*, 47, 255–266. doi:10.1017/S0033291716002531. Via www.cidlab.com/prints/lucio2016poor.pdf.
- 39. Nunez, M. D., Vandekerckhove, J., & Srinivasan, R. (2017). How attention influences perceptual decision making: Single-trial EEG correlates of drift-diffusion model parameters. *Journal of Mathematical Psychology*, 76, 117–130. doi:10.1016/j.jmp.2016.03.003. Via www.cidlab.com/prints/nunez2016attention.pdf.
- 38. Vandekerckhove, J., & Wagenmakers, E. (2016). C. S. Peirce on the Crisis of Confidence and the "No More Bets" Heuristic. *The Winnower*, 4843. doi:10.15200/winn.146611.14253. Via winnower-production.s3.amazonaws.com/papers/4843/v5/pdf/4843-c-s-peirce-on-the-crisis-of-confidence-and-the-no-more-bets-heuristic.pdf.
- 37. Oravecz, Z., Muth, C., & Vandekerckhove, J. (2016). Do people agree on what makes one feel loved? A cognitive psychometric approach to the consensus on felt love. *PLoS ONE*, 11, e0152803. doi:10.1371/journal.pone.0152803. Via www.cidlab.com/prints/oravecz2016people.pdf.
- 36. Etz, A., & Vandekerckhove, J. (2016). A Bayesian perspective on the Reproducibility Project: Psychology. *PLoS ONE*, 11, e0149794. doi:10.1371/journal.pone.0149794. Via www.cidlab.com/prints/etz2016bayesian.pdf.
- 35. Oravecz, Z., Tuerlinckx, F., & Vandekerckhove, J. (2016). Bayesian data analysis with the bivariate hierarchical Ornstein-Uhlenbeck process model. *Multivariate Behavioral Research*, 51, 106–119. doi:10. 1080/00273171.2015.1110512. Via www.cidlab.com/prints/oravecz2015bayesian.pdf.
- 34. Guan, M., & Vandekerckhove, J. (2016). A Bayesian approach to mitigation of publication bias. *Psychonomic Bulletin & Review*, 23, 74–86. doi:10.3758/s13423-015-0868-6. Via www.cidlab.com/prints/guan2016bayesian.pdf.
- 33. Oravecz, Z., Huentelman, M., & Vandekerckhove, J. (2016). Sequential Bayesian updating for Big Data. Big Data in Cognitive Science: From Methods to Insights, pp. 13–33. Via www.cidlab.com/prints/oravecz2016sequential.pdf.
- 32. Van Elk, M., Matzke, D., Gronau, Q., Guan, M., Vandekerckhove, J., & Wagenmakers, E. (2015). Meta-analyses are no substitute for registered replications: a skeptical perspective on religious priming. Frontiers in Psychology, 6, 1365. doi:10.3389/fpsyg.2015.01365. Via www.cidlab.com/prints/vanelk2015metaanalyses.pdf.
- 31. Kupitz, C. N., Buschkuehl, M., Jaeggi, S. M., Jonides, J., Shah, P., & Vandekerckhove, J. (2015). A diffusion model account of the transfer-of-training effect. *Proceedings of the 37th Annual Conference of the Cognitive Science Society*. Via www.cidlab.com/prints/kupitz2015diffusion.pdf.
- 30. Guan, M., Lee, M. D., & Vandekerckhove, J. (2015). A hierarchical cognitive threshold model of human decision making on different length optimal stopping problems. *Proceedings of the 37th Annual Conference of the Cognitive Science Society*, pp. 824–829. Via www.cidlab.com/prints/guan2015hierarchical. pdf.
- 29. Mistry, P. K, Trueblood, J. S., Vandekerckhove, J., & Pothos, E. M. (2015). A latent-mixture quantum probability model of causal reasoning within a Bayesian inference framework. *Proceedings of the 37th Annual Conference of the Cognitive Science Society*. Via www.cidlab.com/prints/mistry2015latent.pdf.

- 28. Nunez, M. D., Srinivasan, R., & Vandekerckhove, J. (2015). Individual differences in attention influence perceptual decision making. *Frontiers in Psychology*, 6, 18. doi:10.3389/fpsyg.2015.00018. Via www.cidlab.com/prints/nunez2015individual.pdf.
- 27. Vandekerckhove, J., Matzke, D., & Wagenmakers, E. (2015). Model comparison and the principle of parsimony. Oxford Handbook of Computational and Mathematical Psychology, pp. 300–317. Via www.cidlab.com/prints/vandekerckhove2014model.pdf.
- 26. Zhang, S., Lee, M. D., Vandekerckhove, J., Maris, G., & Wagenmakers, E. (2014). Time-varying boundaries for diffusion models of decision making and response time. Frontiers in Psychology, 5, 1364. doi:10.3389/fpsyg.2014.01364. Via www.cidlab.com/prints/zhang2014time.pdf.
- 25. Lee, M. D., Newell, B., & Vandekerckhove, J. (2014). Modeling the adaptation of search termination in human decision making. *Decision*, 1, 223–251. doi:10.1037/dec0000019. Via webfiles.uci.edu/mdlee/LeeNewellVandekerckhove2013.pdf.
- 24. Murphy, P. R., Vandekerckhove, J., & Nieuwenhuis, S. (2014). Pupil-linked arousal determines variability in perceptual decision making. *PLOS Computational Biology*, 10, e1003854. doi:10.1371/journal.pcbi.1003854. Via www.cidlab.com/prints/murphy2014pupil.pdf.
- 23. Vandekerckhove, J. (2014). A cognitive latent variable model for the simultaneous analysis of behavioral and personality data. *Journal of Mathematical Psychology*, 60, 58–71. doi:10.1016/j.jmp. 2014.06.004. Via www.cidlab.com/prints/vandekerckhove2014cognitive-doc.pdf.
- 22. Wiech, K., Vandekerckhove, J., Zaman, J., Tuerlinckx, F., Vlaeyen, J. W. S., & Tracey, I. (2014). Influence of prior information on pain involves biased perceptual decision-making. *Current Biology*, 24, R679–R681. doi:10.1016/j.cub.2014.06.022. Via www.cidlab.com/prints/wiech2014influence.pdf.
- 21. Wabersich, D., & Vandekerckhove, J. (2014). The RWiener package: an R package providing distribution functions for the Wiener diffusion model. *The R Journal*, 6, 49–56. Via www.cidlab.com/prints/wabersich2014rwiener.pdf.
- 20. Oravecz, Z., Vandekerckhove, J., & Batchelder, W. H. (2014). Bayesian Cultural Consensus Theory. Field Methods, 26, 207–222. doi:10.1177/1525822X13520280. Via www.cidlab.com/prints/oravecz2013bayesian.pdf.
- Salum, G. A., Sergeant, J. A., Sonuga-Barke, E., Vandekerckhove, J., Gadelha, A., Pan, P. M., Moriyama, T. S., Graeff-Martins, A. S., Gomes de Alvarenga, P., do Rosario, M. C., Manfro, G. G., Polanczyk, G. V., & Rohde, L. A. P. (2014). Mechanisms underpinning inattention and hyperactivity: neurocognitive support for ADHD dimensionality. *Psychological Medicine*, 44, 3189–3201. doi:10. 1017/S0033291714000919. Via www.cidlab.com/prints/salum2014mechanisms.pdf.
- 18. Wabersich, D., & Vandekerckhove, J. (2014). Extending JAGS: A tutorial on adding custom distributions to JAGS (with a diffusion model example). *Behavior Research Methods*, 46, 15-28. doi:10.3758/s13428-013-0369-3. Via www.cidlab.com/prints/wabersich2014extending.pdf.
- 17. Salum, G. A., Sergeant, J. A., Sonuga-Barke, E., Vandekerckhove, J., Gadelha, A., Pan, P. M., Moriyama, T. S., Graeff-Martins, A. S., Gomes de Alvarenga, P., do Rosario, M. C., Manfro, G. G., Polanczyk, G. V., & Rohde, L. A. P. (2014). Specificity of basic information processing and inhibitory control in attention deficit/hyperactivity disorder. *Psychological Medicine*, 44, 617–631. doi:10.1017/S0033291713000639. Via www.cidlab.com/prints/salum2014specificity.pdf.
- 16. Vandekerckhove, J., Guan, M., & Styrcula, S. (2013). The consistency test may be too weak to be useful: Its systematic application would not improve effect size estimation in meta-analyses. *Journal of Mathematical Psychology*, 57, 170–173. doi:10.1016/j.jmp.2013.03.007. Via www.cidlab.com/prints/vandekerckhove2013consistency.pdf.

- 15. Pe, M., Vandekerckhove, J., & Kuppens, P. (2013). A diffusion model account of the relationship between the emotional flanker task and depression and rumination. *Emotion*, 13, 739–747. doi:10. 1037/a0031628. Via ppw.kuleuven.be/okp/_pdf/Pe2013ADMAO.pdf.
- 14. Dutilh, G., Forstmann, B. U., **Vandekerckhove, J.**, & Wagenmakers, E. (2013). A diffusion model account of age differences in posterror slowing. *Psychology and Aging*, 28, 64–76. doi:10.1037/a0029875. Via www.cidlab.com/prints/dutilh2013diffusion.pdf.
- 13. Dutilh, G., Vandekerckhove, J., Forstmann, B. U., Keuleers, E., Brysbaert, M., & Wagenmakers, E. (2012). Testing theories of post-error slowing. *Attention, Perception, & Psychophysics*, 7, 454–465. doi:10.3758/s13414-011-0243-2. Via www.cidlab.com/prints/dutilh2012testing.pdf.
- 12. Oravecz, Z., Tuerlinckx, F., & Vandekerckhove, J. (2011). A hierarchical latent stochastic differential equation model for affective dynamics. *Psychological Methods*, 16, 468–490. doi:10.1037/a0024375. Via ppw.kuleuven.be/okp/_pdf/Oravecz2011AHLSD.pdf.
- 11. Vandekerckhove, J., Tuerlinckx, F., & Lee, M. D. (2011). Hierarchical diffusion models for two-choice response times. *Psychological Methods*, 16, 44–62. doi:10.1037/a0021765. Via ppw.kuleuven. be/okp/_pdf/Vandekerckhove2011HDMFT.pdf.
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- 6. Panis, S., De Winter, J., Vandekerckhove, J., & Wagemans, J. (2008). Identification of everyday objects on the basis of fragmented versions of outlines. *Perception*, 37, 271–289. doi:10.1068/p5516. Via www.cidlab.com/prints/panis2008identification.pdf.
- 5. Vandekerckhove, J., & Tuerlinckx, F. (2008). Diffusion Model Analysis with MATLAB: A DMAT Primer. Behavior Research Methods, 40, 61–72. doi:10.3758/BRM.40.1.61. Via www.cidlab.com/prints/vandekerckhove2008diffusion.pdf.
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- 3. Spruyt, A., Hermans, D., De Houwer, J., Vandekerckhove, J., & Eelen, P. (2007). On the predictive validity of indirect attitude measures: Prediction of consumer choice behavior on the basis of affective priming in the picture–picture naming task. *Journal of Experimental Social Psychology*, 43, 599–610. doi:10.1016/j.jesp.2006.06.009. Via www.cidlab.com/prints/spruyt2007predictive.pdf.
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Software

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- Vandekerckhove, J. (2017). Build-A-Bayes [Educational online app]. Available via osf.io/mvp53
- Vandekerckhove, J. (2015). Trinity [Software and manual]. Available via sw.cidlab.com
- Wabersich, D., Lee, M. D., & Vandekerckhove, J. (2013). jags-alcove [Software and manual]. Available via sw.cidlab.com
- Wabersich, D., & Vandekerckhove, J. (2013). jags-wiener [Software and manual]. Available via sw. cidlab.com
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- Oravecz, Z., Tuerlinckx, F., & Vandekerckhove, J. (2012). BHOUM: Bayesian Hierarchical Ornstein-Uhlenbeck Modeling [Software and manual]. Available via bayesian.zitaoravecz.net
- Oravecz, Z., Vandekerckhove, J., & Batchelder, W. H. (2012). Bayesian Cultural Consensus Toolbox [Software and manual]. Available via bayesian.zitaoravecz.net
- Vandekerckhove, J., & Tuerlinckx, F. (2009). wiener.odc and wienereta.odc [Software and manual]. Available via sw.cidlab.com
- Vandekerckhove, J., & Tuerlinckx, F. (2007). The Diffusion Model Analysis Toolbox [Software and manual]. Available from sw.cidlab.com
- Vandekerckhove, J. (2006). General simulated annealing algorithm. Available via sw.cidlab.com

DISSERTATION

Vandekerckhove, J. (2009). Extensions and applications of the diffusion model for two-choice response times. Unpublished doctoral dissertation.

OTHER PUBLICATIONS

- Vandekerckhove, J. (2019, December). Freedom of choice vs. undisclosed flexibility: Researcher degrees of freedom in model-based inference. *Psychonomic Society Featured Content*. Via featuredcontent. psychonomic.org
- Vandekerckhove, J. (2019, September). On being SMARTer than Vincent. Psychonomic Society Featured Content. Via featuredcontent.psychonomic.org
- Vandekerckhove, J. (2019, August). Detecting Bigfoot vs. brain waves: New approaches to multivariate data analysis. *Psychonomic Society Featured Content*. Via featuredcontent.psychonomic.org
- Vandekerckhove, J. (2019, May). You can obscure a lot by just plotting: Cognitive science of data presentation. *Psychonomic Society Featured Content*. Via featuredcontent.psychonomic.org
- Vandekerckhove, J. (2019, February). Weighting or besting? Speeded multi-attribute choice [Original title: The weighting is the hardest part]. Psychonomic Society Featured Content. Via featuredcontent. psychonomic.org
- Vandekerckhove, J. (2018, February). From classical to new to real: A brief history of #BayesInPsych. Psychonomic Society Featured Content. Via featuredcontent.psychonomic.org

MEDIA

- I maintain cidlab.com to distribute research results and publications; and various other websites to announce events and workshops.
- My lab provides support for **The Bayes Factor**, a podcast on Bayesian inference and the people behind it.
- My research has featured in numerous media outlets, including the New York Times, National Public Radio, the Chronicle of Higher Education, WIRED Magazine, Science News, and Nature News.

Service

GRADUATE ADVISING

| 2016-present | Alexander Etz (chair) |
|--------------|--|
| 2014 - 2020 | Colin Kupitz (chair) — now at Air Force Research Labs |
| 2014 - 2019 | Beth Baribault (chair) — now at UC Berkeley |
| 2013 - 2019 | Maime Guan (with M. D. Lee) — now at Apple, Inc. |
| 2013 - 2018 | Irina Danileiko (with M. D. Lee) — now at Niantic, Inc. |
| 2012 - 2017 | Michael D. Nunez (with R. Srinivasan) — now at UC Irvine |

OTHER MENTORING ACTIVITIES

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    2017 - 2019,
    2020 - present
    Assistant project scientist Michael D. Nunez (with R. Srinivasan)
    2018 Assistant project scientist Ravi Selker (with M. D. Lee)
    2016 - 2017 Visiting researcher Anna-Lena Schubert
    2013 - 2014 Research specialist Dominik Wabersich
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DEPARTMENTAL SERVICE

| 2017-present | Graduate Director of Cognitive Sciences |
|--------------|---|
| 2017-present | Chair of the Graduate Admissions Committee of Cognitive Sciences |
| 2013 - 2017 | Undergraduate Director of B.S. Cognitive Sciences |
| 2012-present | Academic personnel committee member (5) and chair (2) |
| 2012-present | Search committee member (4) and chair (2) |
| 2011-present | Doctoral committees (6), advancement committees (11), concentration exams (8) |

OTHER SERVICE

| 2019-present | Conference Chair of the Society for Mathematical Psychology |
|--------------|--|
| 2019-present | Executive Board Member (ex officio) of the Society for Mathematical Psychol- |
| | ogy |
| 2017-present | Representative (elected) of the School of Social Sciences to the Senate Assembly |
| 2017-present | Committee Member, Faculty Advisory Committee for Research Cyberinfrastruc- |
| | ture |

UCI TEACHING

Undergraduate Probability and Statistics in Psychology; Advanced experimental methods in psy-

chology (lecture and lab); Honors advanced experimental methods in psychology

(lecture and lab); Individual study

Graduate Algorithmic statistics; Bayesian inference; Computational statistics; Social data

science; Software development; Transparent and reproducible science

EXTERNAL TEACHING

| $September\ 2018$ | Invited lecturer, Workshop at University of Potsdam, "Cognitive psychometrics |
|-------------------|---|
| | for multimodal data" |
| $September\ 2016$ | Invited lecturer, Workshop at University of Toronto, "A practical course in |
| | Bayesian graphical modeling" (with M. D. Lee) |
| 2010 - 2016 | Lecturer and co-organizer, biennial Computational Cognitive Modeling summer |
| | school |
| March~2015 | Invited lecturer, seminar for Interdisciplinary Data Sciences Consortium, Uni- |
| | versity of South Florida, Tampa, "Cognitive psychometrics and cognitive latent |
| | variable models" |
| July 2015 | Invited lecturer, Workshop at University of Zurich, "Cognitive psychometrics and |
| | cognitive latent variable modeling" |
| $December\ 2010$ | Invited lecturer, University of Zurich doctoral program, "A practical course in |
| | Bayesian graphical modeling" (with M. D. Lee) |
| $September\ 2010$ | Invited lecturer, University of Zurich doctoral program, "Programming models |
| | in MATLAB" |
| 2006 - 2011 | Teaching assistant (2006 – 2008, 2010 – 2011), substitute local coordinator (2007), |
| | and co-lecturer (2008) "Socrates-Erasmus Intensive Program on Mathematical and |
| | Computational Models in the Psychological Sciences" |
| 2005 - 2008 | Teaching assistant and tutor for various undergraduate courses on statistics. Co- |
| | lecturer for undergraduate courses on mathematical modeling |

EDITORIAL AND AD-HOC REVIEWER SERVICE

| 2020-present | Associate editor, Psychonomic Bulletin & Review |
|--------------|---|
| 2018 - 2019 | Associate editor, Psychonomic Society Digital Content |
| 2017-present | Editorial board member, Advances in Methods and Practices in Psychological |
| | Science |
| 2015 - 2018 | Guest lead editor, Psychonomic Bulletin & Review, Special issue on statistical |
| | recommendations (with J. N. Rouder and J. K. Kruschke) |
| 2016 - 2018 | Panelist, National Science Foundation, Advisory Panel for the Methodology, Mea- |
| | surement, and Statistics (MMS) Program |
| 2016 - 2019 | Consulting editor, Behavior Research Methods |
| 2016 - 2018 | Tutorial editor, Journal of Mathematical Psychology |
| 2014 - 2016 | Consulting editor, Journal of Mathematical Psychology |
| | |

Ad hoc reviewer for Acta Psychologica; Advances in Methods and Practices in Psychological Science; the Annual Meeting of the Society for Cognitive Science (conference); Behavior Research Methods; Clinical Epidemiology; Cognition; Cognition, Brain, and Behavior; Cognitive Psychology; Cognitive Science; Collabra; Decision; Entropy; Experimental Psychology; iPerception; Journal of Cognitive Neuroscience; Journal of Experimental Psychology: General; Journal of Mathematical Psychology; Journal of Memory and Language; Memory & Cognition; Methodology; Perspectives in Psychological Science; PLOS ONE; Proceedings of the National Academy of Science; Psychological Science; Psychological Methods; Psychological Research; Psychological Review; Psychometrika; Psychonomic Bulletin & Review; Quarterly Journal of Experimental Psychology; and others.

Ad hoc reviewer for the European Research Council; the Interuniversity Graduate School of Psychometrics and Sociometrics; the National Endowment for the Humanities; the National Science Foundation; and others.

EVENTS ORGANIZED

| July 2021 | Organizer, "54th Annual Meeting of the Society for Mathematical Psychology," a |
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| | virtual conference |
| July 2020 | Organizer, "53rd Annual Meeting of the Society for Mathematical Psychology," |
| | Toronto, Ontario a virtual conference |
| July 2019 | Organizer, "52nd Annual Meeting of the Society for Mathematical Psychology," |
| | Montreal, Quebec |
| July 2018 | Organizer (with R. Shiffrin), "On the relationship between scientific practice and |
| | statistical practice," Madison, WI |
| July 2018 | Organizer (with M. D. Lee), "Workshop on robust social science," Orlando, FL |
| May 2017 | Organizer (with Z. Oravecz), "Models and methods of well-being," Boston, MA |
| $November\ 2016$ | Organizer (with A. H. Criss and EJ. Wagenmakers), "Computational approaches |
| | to cognition," Boston, MA |
| May 2016 | Organizer, "Cognitive psychometrics in action," Chicago, IL |
| $November\ 2015$ | Organizer (with A. H. Criss and EJ. Wagenmakers), "Mathematical Psychology |
| | at Psychonomics," Chicago, IL |
| July 2015 | Organizer, "Applications of mathematical psychology to industry meeting," New- |
| | port Beach, CA |
| July 2015 | Organizer (with J. S. Trueblood), "48th Annual Meeting of the Society for Math- |
| | ematical Psychology," Newport Beach, CA |
| July 2015 | Organizer, "Teaching Bayesian statistics with JASP," Newport Beach, CA |
| $November\ 2014$ | Organizer, "Using BayesFactor for practical Bayesian analysis." Irvine, CA |
| March 2014 | Organizer, "Workshop on recent advances in Bayesian inference." Irvine, CA |
| $November\ 2013$ | Organizer (with J. Krichmar and R. Srinivasan), "Workshop on interfacing models |
| | with brain signals to investigate cognition." Irvine, CA |
| August~2010 | Organizer, "Practical applications of models for response time." Portland, OR |
| | |

OTHER SERVICE TO THE FIELD

Developer, "Minimal frustration" automated scheduler for the 47th Annual Meeting of the Society for Mathematical Psychology.