

CONTACT INFORMATION

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EMPLOYMENT HISTORY

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

EDUCATION

<i>2005 – 2009</i>	PhD in Quantitative Psychology and Psychometrics University of Leuven, Belgium
<i>2002 – 2005</i>	Master in Psychology (Licentiate) University of Leuven, Belgium
<i>2000 – 2002</i>	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
 Member of Statisticians without Borders

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

<i>February 2018</i>	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
<i>April 2017</i>	National Science Foundation grant #1658303: “Estimation of unidentified cognitive models with physiological data.” 24 months. Role: Principal Investigator . \$337,028.00
<i>April 2016</i>	National Science Foundation: Graduate Research Fellowship Award (DGE-1321846; Awarded to advisee Alexander Etz). 36 months. Role: Adviser . \$132,000.00
<i>January 2016</i>	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
<i>September 2015</i>	National Science Foundation grant #1534472: “Bayesian methods for meta-analysis in the presence of publication bias.” 36 months. Role: Principal Investigator . \$260,000.00
<i>July 2015</i>	European Society for Cognitive Psychology: “Summer school for computational cognitive modeling”. Role: Contributor (with S. Lewandowsky and K. Oberauer). \$22,000.00
<i>July 2015</i>	National Science Foundation: “Support for the Applications of Mathematical Psychology to Industry meeting”. Role: Organizer . \$5,000.00
<i>June 2014</i>	John Templeton Foundation grant #48192: “A formal modeling framework for the dynamics of subjective well-being.” 36 months. Role: Principal Investigator . \$540,018.00
<i>April 2014</i>	National Science Foundation: Graduate Research Fellowship Award (DGE-1321846; Awarded to advisee Maime Guan). 36 months. Role: Adviser . \$121,500.00
<i>February 2014</i>	Volkswagen Foundation teaching grant: “Summer school for computational cognitive modeling”. Role: Contributor . (with S. Lewandowsky and K. Oberauer). \$70,000.00
<i>September 2012</i>	National Science Foundation grant #1230118: “Cognitive structural equation models.” 36 months. Role: Principal Investigator . \$250,000.00
<i>October 2010</i>	Research Foundation—Flanders postdoctoral research grant: “Dynamic cognitive psychometrics.” 36 months. \$200,000.00
<i>August 2010</i>	Research Foundation—Flanders (FWO) travel grant: “Fitting a self-regulating accumulator model of human decision-making”. \$3,000.00
<i>October 2009</i>	University of Leuven Research Council postdoctoral research grant: “A statistical framework for Approximate Bayesian Computation.” 12 months. \$65,000.00
<i>September 2008</i>	Research Foundation—Flanders (FWO) travel grant: “A Bayesian treatment of the LATER model for simple response times”. \$2,500.00
<i>November 2007</i>	Research Foundation—Flanders (FWO) travel grant: “Hierarchical diffusion models for two-choice response times”. \$3,000.00

INTRAMURAL GRANTS

<i>July 2015</i>	UC Irvine School of Social Sciences Office of the Dean: “Support for the Applications of Mathematical Psychology to Industry meeting”. Role: Organizer. \$3,000.00
<i>July 2015</i>	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
<i>July 2015</i>	UC Irvine Department of Cognitive Sciences: “Support for the 48th Meeting of the Society for Mathematical Psychology”. Role: Principal organizer (with J. Trueblood). \$2,500.00
<i>July 2015</i>	UC Irvine Department of Cognitive Sciences: “Consistency of Muscle Test Results”. Role: Adviser (with J. Wilson). \$250.00
<i>July 2015</i>	UC Irvine Undergraduate Research Opportunity Program (UROP): “Consistency of Muscle Test Results”. Role: Adviser (with J. Wilson). \$700.00
<i>November 2012</i>	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
<i>June 2012</i>	UC Irvine Summer Undergraduate Research Program (SURP): “Publication Bias in Three Prominent Psychological Journals”. Role: Adviser (with M. Guan). \$2,000.00

PROFESSIONAL RECOGNITIONS

<i>December 2016</i>	I won UC Irvine’s 2016 Social Science Associate Professor Research Award (\$5,000)
<i>December 2016</i>	My student Beth Baribault won the <i>Berkeley Initiative for Transparency in the Social Sciences’</i> Leamer-Rosenthal Prize for Open Social Science for her work under my supervision (\$10,000)
<i>July 2014</i>	I won the <i>Society for Mathematical Psychology’s</i> William K. Estes Early Career Award (\$1,250)

RECENT TALKS

- 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.
- Vandekerckhove, J.** (2017, September). *Cognitive psychometrics and cognitive latent variable models*. Invited presentation at Claremont Graduate University’s Cognitive Lunch Speaker Series.
- Vandekerckhove, J.** (2017, September). *Some Bayesian and psychometric thoughts on the reproducibility crisis*. Invited presentation at the Stanford Cognitive Sciences seminar.
- Vandekerckhove, J.** (2017, November). *Publication bias and statistical evidence in the psychological literature*. Annual Meeting of the Psychonomic Society, Vancouver, Canada.
- Vandekerckhove, J.** (2017, November). *Robust tests of theory with randomly sampled experiments*. Annual Meeting of the Psychonomic Society, Vancouver, Canada.

PUBLISHED WORK

51. Etz, A., Haaf, J. M., Rouder, J. N., & **Vandekerckhove, J.** (in press). Bayesian inference and testing any hypothesis you can specify. *Advances in Methods and Practices in Psychological Science*. Via osf.io/htjgb.
50. **Vandekerckhove, J.**, Rouder, J. N., & Kruschke, J. (2018). Editorial: Bayesian methods for advancing psychological science. *Psychonomic Bulletin & Review*, *25*, 1–4. Via osf.io/wx3h8.

49. 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. Via osf.io/g84py.
48. 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., Kryptos, 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. (in press). The quality of response time data inference: A blinded, collaborative approach to the validity of cognitive models. *Psychonomic Bulletin & Review*. Via osf.io/5tvse.
47. Heshmati, S., Oravecz, Z., Pressman, S., Batchelder, W. H., Muth, C., & **Vandekerckhove, J.** (in press). What does it mean to feel loved? Cultural agreement and individual differences. *Journal of Social and Personal Relationships*.
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. Via osf.io/bvjg8.
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. Via osf.io/trhsy.
44. Etz, A., & **Vandekerckhove, J.** (2018). Introduction to Bayesian inference for psychology. *Psychonomic Bulletin & Review*, *25*, 5–34. Via osf.io/n9mbu.
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. Via osf.io/gytqz.
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.
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.
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.
39. **Vandekerckhove, J.**, & Wagenmakers, E. (2016). C. S. Peirce on the Crisis of Confidence and the "No More Bets" Heuristic. *The Winnower*, *4843*, .
38. 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.
37. 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.
36. Etz, A., & **Vandekerckhove, J.** (2016). A Bayesian perspective on the Reproducibility Project: Psychology. *PLoS ONE*, *11*, e0149794.
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.
34. Guan, M., & **Vandekerckhove, J.** (2016). A Bayesian approach to mitigation of publication bias. *Psychonomic Bulletin & Review*, *23*, 74–86.
33. 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.

32. 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*.
31. 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*.
30. 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*.
29. Oravecz, Z., Huentelman, M., & **Vandekerckhove, J.** (2016). Sequential Bayesian updating for Big Data. *Big Data in Cognitive Science: From Methods to Insights*.
28. Nunez, M. D., Srinivasan, R., & **Vandekerckhove, J.** (2015). Individual differences in attention influence perceptual decision making. *Frontiers in Psychology, 6*, 18.
27. 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.
26. Lee, M. D., Newell, B., & **Vandekerckhove, J.** (2014). Modeling the adaptation of search termination in human decision making. *Decision, 1*, 223–251.
25. Murphy, P. R., **Vandekerckhove, J.**, & Nieuwenhuis, S. (2014). Pupil-linked arousal determines variability in perceptual decision making. *PLOS Computational Biology, 10*, e1003854.
24. **Vandekerckhove, J.** (2014). A cognitive latent variable model for the simultaneous analysis of behavioral and personality data. *Journal of Mathematical Psychology, 60*, 58–71.
23. 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.
22. 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.
21. Oravecz, Z., **Vandekerckhove, J.**, & Batchelder, W. H. (2014). Bayesian Cultural Consensus Theory. *Field Methods, 26*, 207–222.
20. 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.
19. **Vandekerckhove, J.**, Matzke, D., & Wagenmakers, E. (2015). Model comparison and the principle of parsimony. *Oxford Handbook of Computational and Mathematical Psychology*.
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.
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.
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.
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.

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.
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.
12. Oravecz, Z., Tuerlinckx, F., & **Vandekerckhove, J.** (2011). A hierarchical latent stochastic differential equation model for affective dynamics. *Psychological Methods, 16*, 468–490.
11. **Vandekerckhove, J.**, Tuerlinckx, F., & Lee, M. D. (2011). Hierarchical diffusion models for two-choice response times. *Psychological Methods, 16*, 44–62.
10. **Vandekerckhove, J.**, Verheyen, S., & Tuerlinckx, F. (2010). A crossed random effects diffusion model for speeded semantic categorization data. *Acta Psychologica, 133*, 269–282.
9. Wetzels, R., **Vandekerckhove, J.**, Tuerlinckx, F., & Wagenmakers, E. (2010). Bayesian parameter estimation in the Expectancy Valence model of the Iowa gambling task. *Journal of Mathematical Psychology, 54*, 14–27.
8. Dutilh, G., **Vandekerckhove, J.**, Tuerlinckx, F., & Wagenmakers, E. (2009). A diffusion model decomposition of the practice effect. *Psychonomic Bulletin & Review, 16*, 1026–1036.
7. Oravecz, Z., Tuerlinckx, F., & **Vandekerckhove, J.** (2009). A hierarchical Ornstein-Uhlenbeck model for continuous repeated measurement data. *Psychometrika, 74*, 395–418.
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.
5. **Vandekerckhove, J.**, & Tuerlinckx, F. (2008). Diffusion Model Analysis with MATLAB: A DMAT Primer. *Behavior Research Methods, 40*, 61–72.
4. **Vandekerckhove, J.**, Tuerlinckx, F., & Lee, M. D. (2008). A Bayesian approach to diffusion process models of decision-making. *Proceedings of the 30th Annual Conference of the Cognitive Science Society*.
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.
2. **Vandekerckhove, J.**, Panis, S., & Wagemans, J. (2007). The concavity effect is a compound of local and global effects. *Perception & Psychophysics, 69*, 1253–1260.
1. **Vandekerckhove, J.**, & Tuerlinckx, F. (2007). Fitting the Ratcliff diffusion model to experimental data. *Psychonomic Bulletin & Review, 14*, 1011–1026.

SOFTWARE

- Vandekerckhove, J.** (2017). Build-A-Bayes [Educational online app]. Available via <https://osf.io/mvp53/>
- Vandekerckhove, J.** (2015). Trinity [Software and manual]. Available via <http://works.cidlab.com/>
- Wabersich, D., Lee, M. D., & **Vandekerckhove, J.** (2013). jags-alcove [Software and manual]. Available via <http://works.cidlab.com/>
- Wabersich, D., & **Vandekerckhove, J.** (2013). jags-wiener [Software and manual]. Available via <http://works.cidlab.com/>
- Wabersich, D., Lee, M. D., & **Vandekerckhove, J.** (2013). RAlcove [Software and manual]. Available via <http://works.cidlab.com/>
- Wabersich, D., Lee, M. D., & **Vandekerckhove, J.** (2013). RWiener [Software and manual]. Available via <http://works.cidlab.com/>
- Oravecz, Z., Tuerlinckx, F., & **Vandekerckhove, J.** (2012). BHOUM: Bayesian Hierarchical Ornstein-Uhlenbeck Modeling [Software and manual]. Available via <http://bayesian.zitaoravecz.net/>

Oravecz, Z., **Vandekerckhove, J.**, & Batchelder, W. H. (2012). Bayesian Cultural Consensus Toolbox [Software and manual]. Available via <http://bayesian.zitaoravecz.net/>

Vandekerckhove, J., & Tuerlinckx, F. (2009). wiener.odc and wienereta.odc [Software and manual]. Available via <http://works.cidlab.com/>

Vandekerckhove, J., & Tuerlinckx, F. (2007). The Diffusion Model Analysis Toolbox [Software and manual]. Available from <http://works.cidlab.com/>

Vandekerckhove, J. (2006). General simulated annealing algorithm. Available via <http://works.cidlab.com/>

DISSERTATION

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

ARTICLES UNDER REVIEW OR IN PREPARATION

Baribault, B., & **Vandekerckhove, J.** (in preparation). A tutorial on cognitive latent variable modeling.

Wilson, J., Baribault, B., & **Vandekerckhove, J.** (in preparation). Chance level performance in expert diagnoses with applied kinesiology.

Kupitz, C., & **Vandekerckhove, J.** (in preparation). A cognitive latent variable approach to the transfer-of-training effect.

Mistry, P. K., Trueblood, J. S., **Vandekerckhove, J.**, & Pothos, E. M. (under review). A quantum probability account of individual differences in causal reasoning.

MEDIA

- I maintain **cidlab.com** to distribute research results and publications; **beingwellproject.com** for public outreach regarding positive-psychology research; and various other websites to announce events and workshops
- My lab funds **The Bayes Factor**, a podcast on Bayesian inference and the people behind it.
- I was interviewed by various media outlets (*Science News*, *Nature News*, *WIRED Magazine*) in relation to my work on the Reproducibility Project: Psychology, and by BYU radio regarding my work on felt love.
- My work on the dynamics of subjective well-being was posted on the UCI News service and widely circulated, and my work on model complexity was featured on the Psychonomic Society's blog (<http://www.psychonomic.org/news/news.asp?id=316843>).
- My advocacy for more robust science was mentioned by President Marcia McNutt of the National Academy of Sciences in a letter to the editor of the *Chronicle of Higher Education* (<http://www.chronicle.com/blogs/letters/scientists-dont-view-reproducibility-as-risky-business/>).

Service

GRADUATE ADVISING

<i>2016 – present</i>	Alexander Etz
<i>2014 – present</i>	Colin Kupitz
<i>2014 – present</i>	Beth Baribault
<i>2013 – present</i>	Maime Guan — with M. D. Lee
<i>2013 – 2018</i>	Irina Danileiko — with M. D. Lee
<i>2012 – 2017</i>	Michael D. Nunez — with R. Srinivasan

OTHER MENTORING ACTIVITIES

<i>2017 – present</i>	Michael D. Nunez (Associate project scientist) — with R. Srinivasan
<i>2018 – present</i>	Ravi Selker (Assistant project scientist) — with M. D. Lee

DEPARTMENTAL SERVICE

<i>2017 – present</i>	School of Social Sciences Representative to the Senate Assembly
<i>2017 – present</i>	Member of the Faculty Advisory Committee for Research Cyberinfrastructure
<i>2017 – present</i>	Graduate Director of Cognitive Sciences
<i>2013 – 2017</i>	Undergraduate Director of B.S. Cognitive Sciences
<i>2012 – present</i>	Academic personnel committee member (4) and chair (2)
<i>2012 – present</i>	Search committee member (4) and chair (2)
<i>2011 – present</i>	Doctoral committees (4), advancement committees (10), concentration exams (7)

UCI TEACHING

<i>Undergraduate</i>	Advanced experimental methods in psychology (lecture and lab) Honors advanced experimental methods in psychology (lecture and lab) Individual study
<i>Graduate</i>	Software development Bayesian inference Algorithmic statistics Dissertation study

EXTERNAL TEACHING

<i>September 2016</i>	Invited lecturer , Workshop at University of Toronto, “A practical course in Bayesian graphical modeling” (with M. D. Lee)
<i>2010 – 2016</i>	Lecturer and co-organizer , biennial Computational Cognitive Modeling summer school
<i>March 2015</i>	Invited lecturer , seminar for Interdisciplinary Data Sciences Consortium, University of South Florida, Tampa, “Cognitive psychometrics and cognitive latent variable models”
<i>July 2015</i>	Invited lecturer , Workshop at University of Zurich, “Cognitive psychometrics and cognitive latent variable modeling”
<i>December 2010</i>	Invited lecturer , University of Zurich doctoral program, “A practical course in Bayesian graphical modeling” (with M. D. Lee)
<i>September 2010</i>	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

- 2017 – present **Editorial board member**, *Advances in Methods and Practices in Psychological Science*
- 2017 **Guest lead editor**, *Psychonomic Bulletin & Review*, Special issue on statistical recommendations (with J. .N. Rouder and J. K. Kruschke)
- 2016 – present **Panel member**, National Science Foundation, Advisory Panel for the Methodology, Measurement, and Statistics (MMS) Program
- 2016 – present **Consulting editor**, *Behavior Research Methods*
- 2016 – present **Tutorial editor**, *Journal of Mathematical Psychology*
- 2014 – 2016 **Consulting editor**, *Journal of Mathematical Psychology*

Ad hoc reviewer for *Acta Psychologica*, *the Annual Meeting of the Society for Cognitive Science (conference)*, *Behavior Research Methods*, *Clinical Epidemiology*, *Cognition*, *Cognitive Psychology*, *Cognitive Science*, *Decision*, *Entropy*, *European Research Council*, *Experimental Psychology*, *Interuniversity Graduate School of Psychometrics and Sociometrics*, *iPerception*, *Journal of Cognitive Neuroscience*, *Journal of Mathematical Psychology*, *Memory & Cognition*, *Methodology*, *the National Science Foundation*, *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.

EVENTS ORGANIZED

- July 2019 **Organizer**, “52nd Annual Meeting of the Society for Mathematical Psychology,” Montreal, Quebec
- July 2018 **Organizer**, “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. Criss and E.-J. Wagenmakers), “Computational Approaches to Cognition,” Boston, MA
- May 2016 **Organizer**, “Cognitive Psychometrics in Action.” Speakers: Joachim Vandekerckhove, Klaus Oberauer, Edgar Erdfelder, Dora Matzke. Chicago, IL
- November 2015 **Organizer** (with A. Criss and E.-J. Wagenmakers), “Mathematical Psychology at Psychonomics,” Chicago, IL
- July 2015 **Organizer**, “Applications of Mathematical Psychology to Industry meeting,” Newport Beach, CA
- July 2015 **Organizer** (with J. Trueblood), “48th Annual Meeting of the Society for Mathematical 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

- 2014 **Developer**, “Minimal frustration” automated scheduler for the 47th Annual Meeting of the Society for Mathematical Psychology.