

# TIM PLESKAC

## Chair & Professor of Psychology, University of Kansas

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## RESEARCH

I study how people make judgments and decisions; how these processes shape behavior at the individual, group, and organizational level; and how we can help people make better judgments and decisions. I investigate these questions with computational modeling and methods from the behavioral and cognitive sciences.

## EXPERIENCE

### Chair of Psychology University of Kansas

2022 – Ongoing Lawrence, KS

- Department of 33 total faculty, 87 graduate students, 1,326 undergraduate majors, and an active clinic.

### Professor of Psychology University of Kansas

2018 – Ongoing Lawrence, KS

- I direct the KU Behavioral Science Laboratory. We use computational models to understand better the mental processes involved in making a decision.
- Chaired the development of the Brain, Behavior, & Quantitative Science Program in the Department of Psychology, which is a training program focused on translational research.
- Direct the Kansas Data Science Consortium to create a state-wide data science training program.

### Senior Scientist

#### Center for Adaptive Rationality, Max Planck Institute for Human Development

2014–2018 Berlin, Germany

- Helped lead an interdisciplinary research center composed of 30 researchers managing research personnel and the research portfolio.
- At the Center, I also trained researchers in computational modeling and led initiatives to develop reproducible science pipelines.

### Associate, Assistant Professor Michigan State University

2007–2014 East Lansing, MI

- Directed the Laboratory for Cognitive and Decision Sciences, chaired the quantitative program, and chaired a successful faculty search.
- Key accomplishments include earning an NSF CAREER Award and being named the MSU College of Social Science Outstanding Teacher.

## POST DOCTORAL

### NIMH Postdoc Research Fellow Cognitive Science, Indiana University

2006–2007 Bloomington, IN

### Research Scientist

#### Center for Cognitive & Decision Science, University of Basel

2004–2006 Basel, Switzerland

## EDUCATION

### Ph.D. Psychology

#### University of Maryland-College Park

2003–2004 College Park, MD

### M.Sc. Psychology

#### University of Maryland-College Park

2000–2003 College Park, MD

### B.Sc. Psychology *cum laude*


#### University of Iowa


1996–2000 Iowa City, IA


## NOTEWORTHY


 **President elect, 2022**  
Society for Mathematical Psychology

 **Senior Administrative Fellow, 2020**  
KU

 **Jane Beattie Scientific Recognition Award, 2015**  
European Association for Decision Making

 **Outstanding Teacher Award, 2013**  
MSU College of Social Science

 **NSF CAREER Award, 2010**  
National Science Foundation

 **Einhorn Young Investigator Award, 2008**  
Society for Judgment & Decision Making

## CURRENT SUPPORT

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NSF OIA 2148878, RII Track-1: Adaptive and Resilient Infrastructures driven by Social Equity (ARISE)

**NSF**

📅 2022–2027

📍 University of Kansas

**Role** Principal Investigator (Leader of Kansas Data Science Consortium Training Component) (PI: Belinda Sturm)

**Amount** \$20,000,000 (Responsible for \$3.2 million)

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Modeling the dynamics of belief formation: Towards a computational understanding of the timing and accuracy of probability judgments

**NSF**

📅 2021–2024

📍 University of Kansas

**Award Number** SES 212112

**Role** Principal Investigator

**Amount** \$692,123

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Understanding Race Bias in the Decision to Shoot with an Integrated Model of Decision Making

**National Science Foundation**

📅 2018–2021

📍 Michigan State University

**Award Number** SBE 1756092

**Role** Senior Personnel

**Amount** \$406,003

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## PENDING SUPPORT

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Decision Intelligence for AI-Augmented Actions to Outcomes Decision Improvement (DECISIVE)

**National Science Foundation Center Grant**

📅 2023 – 2029

📍 North Carolina State University

**Role** Investigator

**Amount** about \$50,000 of direct support

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## PAST SUPPORT

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A victim-centered analysis of active shooter civilian training programs

**University of Kansas**

📅 2020–2021

📍 University of Kansas

**Role** Co-PI

**Amount** \$18,000

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## Curriculum Innovation Program for BS Behavioral Neuroscience

### Center for Teaching Excellence

📅 2020

📍 University of Kansas

**Role** ColInvestigator

**Amount** \$10,000

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## Small Grants for Course Transformation Forming Data I: Foundations of Data Science

### Center for Teaching Excellence

📅 2020

📍 University of Kansas

**Role** Principal Investigator

**Amount** \$3,000

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## Collaborative Research: Comparing single- vs. double-blind review of scientific abstracts for accuracy and bias

### National Science Foundation

📅 2018–2020

📍 University of Kansas

**Award Number** SBE 1824259

**Role** Principal Investigator

**Amount** \$111,702 (total across proposals \$299,999)

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## ISTART: Neural Mechanisms of Preference Formation During Risky Decision Making

### National Institutes of Health

📅 2013–2014

📍 Michigan State University

**Award Number** R03DA033455-01A1

**Role** Principal Investigator

**Amount** \$150,000 (Direct)

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## CAREER: Bringing a dynamic, stochastic, and computational, understanding to subjective probabilities

### National Science Foundation

📅 2010–2015

📍 Michigan State University

**Award Number** SBE 0955410

**Role** Principal Investigator

**Amount** \$510,444

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## Advisor for Peter Kvam's NSF Graduate Research Fellowship

### National Science Foundation

📅 2010–2015

📍 Michigan State University

**Award Number** DGE-142871

**Role** Advisor

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## Follow-up of Participants in College Board Study of Noncognitive Determinants of College Student Performance

College Board

📅 2008–2010

📍 Michigan State University

Role Senior Personnel

Amount \$258,260

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## PUBLICATIONS

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Unless volume and pages are listed, papers listed in the current year are officially in press.

Starting in 2016, all papers I publish list contributions in the author note. I note my Ph.D. or Post Doctoral students (\*), papers I was supervising/senior author (†), and papers where there was joint first authorship (◇) below.

### Books

- Hertwig, R., Pleskac, T. J., Pachur, T., & Center for Adaptive Rationality. (2019). *Taming Uncertainty*. Cambridge, MA, MIT Press. <https://doi.org/10.7551/mitpress/11114.001.0001>

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### Journal Articles

- Cai, X., & Pleskac, T. J. (2023). When alternative hypotheses shape your beliefs: Context effects in probability judgments. *Cognition*, 231, 105306.
- Pleskac, T. J., Yu\*, S., Grunevski, S., & Liu, T. (2023). Attention biases preferential choice by enhancing an option's value. *Journal of Experimental Psychology: General*. <https://doi.org/10.31234/osf.io/n3ghb>
- Tump\*, A. N., Deffner, D., Pleskac, T. J., Romanczuk, P., & Kurvers, R. H. (2023). A cognitive computational approach to social and collective decision-making. *OSF Preprints*. <https://doi.org/10.31234/osf.io/n3ghb>
- Adaryukov\*, J., Grunevski, S., Reed, D. D., & Pleskac†, T. J. (2022). I'm wearing a mask, but are they?: Perceptions of self-other differences in covid-19 health behaviors. *PloS one*, 17(6), e0269625. <https://doi.org/10.1371/journal.pone.0269625>
- Hertwig, R., Leuker\*, C., Pachur, T., Spiliopoulos, L., & Pleskac, T. J. (2022). Studies in ecological rationality. *Topics in Cognitive Science*, 14(3), 467–491. <https://doi.org/10.1111/tops.12567>
- Lasagna\*, C. A., Pleskac†, T. J., Burton, C. Z., McInnis, M. G., Taylor, S. F., & Tso, I. F. (2022). Mathematical modeling of risk-taking in bipolar disorder: Evidence of reduced behavioral consistency, with altered loss aversion specific to those with history of substance use disorder. *Computational Psychiatry*, 6(1). <https://doi.org/10.5334/cpsy.61>
- Wu\*, C. M., Schulz, E., Pleskac, T. J., & Speekenbrink, M. (2022). Time pressure changes how people explore and respond to uncertainty. *Scientific Reports*, 12(1), 1–14. <https://doi.org/s41598-022-07901-1>
- Kvam, P. D., Busemeyer, J. R., & Pleskac, T. J. (2021). Temporal oscillations in preference strength provide evidence for an open system model of constructed preference. *Scientific Reports*, 11(1), 1–15. <https://doi.org/10.1038/s41598-021-87659-0>
- Pleskac†, T. J., Conradt, L., Leuker\*, C., & Hertwig, R. (2021). The ecology of competition: A theory of risk-reward environments in adaptive decision making. *Psychological Review*, 128, 315–335. <https://doi.org/10.1037/rev0000261>
- Pothos◇, E., & Pleskac◇, T. J. (2021). Rethinking rationality. *Topics in Cognitive Science*.
- Ravizza, S. M., Pleskac, T. J., & Liu, T. (2021). Working memory prioritization: Goal-driven attention, physical salience, and implicit learning. *Journal of Memory and Language*, 121, 104287. <https://doi.org/10.1016/j.jml.2021.104287>
- Albrecht, R., Hoffmann, J. A., Pleskac, T. J., Rieskamp, J., & von Helversen, B. (2020). Competitive retrieval strategy causes multimodal response distributions in multiple-cue judgments. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 46(6), 1064. <https://doi.org/10.1037/xlm0000772>

- Busemeyer◇, J. R., Kvam◇, P. D., & Pleskac◇, T. J. (2020). Comparison of markov versus quantum dynamical models of human decision making. *WIREs Cognitive Science*, 11(4), e1526. <https://doi.org/10.1002/wcs.1526>
- Leuker\*, C., Samartzidis, L., Hertwig, R., & Pleskac†, T. J. (2020). When money talks: Judging risk and coercion in high-paying clinical trials. *PloS one*, 15(1), e0227898. <https://doi.org/10.1371/journal.pone.0227898>
- Litvinova, A., Herzog, S. M., Kall, A. A., Pleskac, T. J., & Hertwig, R. (2020). How the "wisdom of the inner crowd" can boost accuracy of confidence judgments. *Decision*, 46(6), 183–211. <https://doi.org/10.1037/dec0000119>
- Tump\*, A. N., Pleskac, T. J., & Kurvers, R. H. (2020). Wise or mad crowds? the cognitive mechanisms underlying information cascades. *Science Advances*, 6(29), eabb0266. <https://doi.org/10.1126/sciadv.abb0266>
- Bhatia, S., & Pleskac, T. J. (2019). Preference accumulation as a process model of desirable rating. *Cognitive Psychology*, 109, 47–67. <https://doi.org/10.1016/j.cogpsych.2018.12.003>
- Busemeyer, J. R., Kvam, P., & Pleskac, T. J. (2019). Markov versus quantum dynamic models of belief change during evidence monitoring. *Scientific Reports*, 9(1), 1–10. <https://doi.org/10.1038/s41598-019-54383-9>
- Dai\*, J., Pachur, T., Pleskac, T. J., & Hertwig, R. (2019b). What the future holds and when: A description-experience gap in intertemporal choice. *Psychological Science*, 30(8), 1218–1233. <https://doi.org/10.1177/0956797619858969>
- Leuker\*, C., Pachur, T., Hertwig, R., & Pleskac†, T. J. (2019a). Do people exploit risk-reward structures to simplify information processing in risky choice? *Journal of the Economic Science Association*, 5(1), 76–94. <https://doi.org/10.1007/s40881-019-00073-1>
- Leuker\*, C., Pachur, T., Hertwig, R., & Pleskac†, T. J. (2019b). Too good to be true? psychological responses to surprising options in risk-reward environments. *Journal of Behavioral Decision Making*, 32, 346–358. <https://doi.org/10.1002/bdm.2116>
- Pleskac, T. J., Yu\*, S., Hopwood, C., & Liu, T. (2019). Mechanisms of deliberation during preferential choice: Perspectives from computational modeling and individual differences. *Decision*, 6(1), 77–107. <https://doi.org/10.1037/dec0000092>
- Schürman\*, O., Frey, R., & Pleskac†, T. J. (2019). Mapping risk perceptions in dynamic risk-taking environments. *Journal of Behavioral Decision Making*, 32, 94–105. <https://doi.org/10.1002/bdm.2098>
- Dai\*, J., Pleskac, T. J., & Pachur, T. (2018). Dynamic cognitive models of intertemporal choice. *Cognitive psychology*, 104, 29–56. <https://doi.org/10.1016/j.cogpsych.2018.03.001>
- Hertwig, R., & Pleskac, T. J. (2018). The construct-behavior gap and the description-experience gap: Comment on Regenwetter & Robinson (2017). *Psychological Review*, 125(5), 844–849. <https://doi.org/10.1037/rev0000121>
- Johnson\*, D., Cesario, J., & Pleskac, T. J. (2018). How prior information and police experience impacts decisions to shoot. *Journal of Personality & Social Psychology*, 115(4), 601–623. <https://doi.org/10.1037/pspa0000130>
- Leuker\*, C., Pachur, T., Hertwig, R., & Pleskac†, T. J. (2018). Exploiting risk-reward structures in decision making under uncertainty. *Cognition*, 175, 186–200. <https://doi.org/10.1016/j.cognition.2018.02.019>
- Pleskac, T. J., Cesario, J., & Johnson\*, D. J. (2018). How race affects evidence accumulation during the decision to shoot. *Psychonomic Bulletin & Review*, 25(4), 1301–1330. <https://doi.org/10.3758/s13423-017-1369-6>
- Johnson\*, D. J., Hopwood, C. J., Cesario, J., & Pleskac, T. J. (2017). Advancing research on cognitive processes in social and personality psychology: A hierarchical drift diffusion model primer. *Social Psychological and Personality Science*, 8(4), 413–423. <https://doi.org/10.1177/1948550617703174>
- Kvam\*, P. D., & Pleskac, T. J. (2017). A quantum information architecture for cue-based heuristics. *Decision*, 4(4), 197. <https://doi.org/10.1037/dec0000070>
- Kvam\*, P. D., & Pleskac, T. J. (2016). Strength and weight: The determinants of choice and confidence. *Cognition*, 152, 170–180. <https://doi.org/10.1016/j.cognition.2016.04.008>
- Uitvlugt, M. G., Pleskac, T. J., & Ravizza, S. M. (2016). The nature of working memory gating in parkinson's disease: A multi-domain signal detection examination. *Cognitive, Affective, & Behavioral Neuroscience*, 16(2), 289–301. <https://doi.org/10.3758/s13415-015-0389-9>
- Kvam\*, P. D., Pleskac†, T. J., Yu\*, S., & Busemeyer, J. R. (2015). Interference effects of choice on confi-

dence: Quantum characteristics of evidence accumulation. *Proceedings of the National Academy of Sciences*, 112(34), 10645–10650. <https://doi.org/10.1073/pnas.1500688112>

- Yu\*, S., Pleskac, T. J., & Zeigenfuse\*, M. D. (2015). Dynamics of postdecisional processing of confidence. *Journal of Experimental Psychology: General*, 144(2), 489–510. <https://doi.org/10.1037/xge0000062>
- Pleskac, T. J., & Hertwig, R. (2014). Ecologically rational choice and the structure of the environment. *Journal of Experimental Psychology: General*, 143(5), 2000. <https://doi.org/10.1037/xge0000013>
- Pleskac, T. J., & Wershbaile\*, A. (2014). Making assessments while taking repeated risks: A pattern of multiple response pathways. *Journal of Experimental Psychology: General*, 143(1), 142. <https://doi.org/10.1037/a0031106>
- Zeigenfuse\*, M. D., Pleskac†, T. J., & Liu, T. (2014). Rapid decisions from experience. *Cognition*, 131(2), 181–194. <https://doi.org/10.1016/j.cognition.2013.12.012>
- Pleskac, T. J., Kvam\*, P. D., & Yu\*, S. (2013). What's the predicted outcome? explanatory and predictive properties of the qp framework. *Behavioral and Brain Sciences*, 36(3), 303–304. <https://doi.org/10.1017/S0140525X12003093>
- McAuley, J. D., Henry, M. J., Wedd, A., Pleskac, T. J., & Cesario, J. (2012). Effects of musicality and motivational orientation on auditory category learning: A test of a regulatory-fit hypothesis. *Memory & cognition*, 40(2), 231–251. <https://doi.org/10.3758/s13421-011-0146-4>
- Pleskac, T. J. (2012). Comparability effects in probability judgments. *Psychological Science*, 23(8), 848–854. <https://doi.org/10.1177/0956797612439423>
- Liu, T., & Pleskac, T. J. (2011). Neural correlates of evidence accumulation in a perceptual decision task. *Journal of Neurophysiology*, 106(5), 2383–2398. <https://doi.org/10.1152/jn.00413.2011>
- Pleskac, T. J., Keeney\*, J., Merritt, S. M., Schmitt, N., & Oswald, F. L. (2011). A detection model of college withdrawal. *Organizational Behavior and Human Decision Processes*, 115(1), 85–98. <https://doi.org/10.1016/j.obhdp.2010.12.001>
- Hau\*, R., Pleskac, T. J., & Hertwig, R. (2010). Decisions from experience and statistical probabilities: Why they trigger different choices than a priori probabilities. *Journal of Behavioral Decision Making*, 23(1), 48–68.
- Hertwig, R., & Pleskac, T. J. (2010). Decisions from experience: Why small samples? *Cognition*, 115(2), 225–237. <https://doi.org/10.1002/bdm.665>
- Pleskac, T. J., & Busemeyer, J. R. (2010). Two-stage dynamic signal detection: A theory of choice, decision time, and confidence. *Psychological review*, 117(3), 864–901. <https://doi.org/10.1037/A0019737>
- Bishara, A. J., Pleskac, T. J., Fridberg, D. J., Yechiam, E., Lucas, J., Busemeyer, J. R., Finn, P. R., & Stout, J. C. (2009). Similar processes despite divergent behavior in two commonly used measures of risky decision making. *Journal of Behavioral Decision Making*, 22(4), 435–454. <https://doi.org/10.1002/bdm.641>
- Busemeyer, J. R., & Pleskac, T. J. (2009). Theoretical tools for understanding and aiding dynamic decision making. *Journal of Mathematical Psychology*, 53(3), 126–138. <https://doi.org/10.1016/J.Jmp.2008.12.007>
- Pleskac, T. J., Dougherty, M. R., Rivadeneira, A. W., & Wallsten, T. S. (2009). Random error in judgment: The contribution of encoding and retrieval processes. *Journal of Memory and Language*, 60(1), 165–179. <https://doi.org/10.1016/j.jml.2008.08.003>
- Schmitt, N., Keeney, J., Oswald, F. L., Pleskac, T. J., Billington, A. Q., Sinha, R., & Zorzie, M. (2009). Prediction of 4-year college student performance using cognitive and noncognitive predictors and the impact on demographic status of admitted students. *Journal of Applied Psychology*, 94(6), 1479.
- Hau\*, R., Pleskac, T. J., Kiefer, J., & Hertwig, R. (2008). The description–experience gap in risky choice: The role of sample size and experienced probabilities. *Journal of Behavioral Decision Making*, 21(5), 493–518. <https://doi.org/10.1002/bdm.598>
- Pleskac, T. J. (2008). Decision making and learning while taking sequential risks. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 34(1), 167. <https://doi.org/10.1037/0278-7393.34.1.167>
- Pleskac, T. J., Wallsten, T. S., Wang, P., & Lejuez, C. (2008). Development of an automatic response mode to improve the clinical utility of sequential risk-taking tasks. *Experimental and Clinical Psychopharmacology*, 16(6), 555. <https://doi.org/10.1037/a0014245>
- Pleskac, T. J. (2007). A signal detection analysis of the recognition heuristic. *Psychonomic Bulletin & Review*,

14(3), 379–391. <https://doi.org/10.3758/BF03194081>

- Wallsten, T. S., Pleskac, T. J., & Lejuez, C. W. (2005). Modeling behavior in a clinically diagnostic sequential risk-taking task. *Psychological Review*, 112(4), 862–880. <https://doi.org/10.1037/0033-295X.112.4.862>

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## 📖 Book Chapters

- Pleskac, T. J., & Hertwig, R. (2023). In decisions from experience what you see is up to your sampling of the world, In *Sampling*. Cambridge, MA, Cambridge University Press.
- Dai\*, J., Pachur, T., Pleskac, T. J., & Hertwig, R. (2019a). Tomorrow never knows: Why and how uncertainty matters in intertemporal choice, In *Taming Uncertainty*. Cambridge, MA, MIT Press. <https://doi.org/10.7551/mitpress/11114.003.0014>
- Hertwig, R., Pleskac, T. J., & Pachur, T. (2019). Reckoning with uncertainty: Our research program, In *Taming Uncertainty*. Cambridge, MA, MIT Press. <https://doi.org/10.7551/mitpress/11114.003.0004>
- Kozyreva, A., Pleskac, T. J., Pachur, T., & Hertwig, R. (2019). Interpreting uncertainty: A brief history of not knowing. Cambridge, MA, MIT Press. <https://doi.org/10.7551/mitpress/11114.003.0026>
- Kvam\*, P., Hintze, A., Pleskac, T. J., & Pietraszewski, D. (2019). Computational evolution and ecologically rational decision making, In *Taming Uncertainty*. Cambridge, MA, MIT Press. <https://doi.org/10.7551/mitpress/11114.003.0022>
- Pleskac, T. J., Hertwig, R., Leuker\*, C., & Conratt, L. (2019). Using risk-reward structures to reckon with uncertainty, In *Taming Uncertainty*. Cambridge, MA, MIT Press. <https://doi.org/10.7551/mitpress/11114.003.0007>
- Wulff\*, D., Markant\*, D., Pleskac, T. J., & Hertwig, R. (2019). Adaptive exploration: What you see is up to you, In *Taming Uncertainty*. Cambridge, MA, MIT Press. <https://doi.org/10.7551/mitpress/11114.003.0012>
- Pleskac, T. J. (2015a). Decision and choice: Luce's choice axiom, In *International encyclopedia of the social & behavioral sciences*. Elsevier. <https://doi.org/10.1016/B978-0-08-097086-8.43031-X>
- Pleskac, T. J. (2015b). Learning models in decision making, In *The Wiley Blackwell handbook of judgment decision making*. Chichester, United Kingdom, John Wiley & Sons. <https://doi.org/10.1002/9781118468333.ch22>
- Pleskac, T. J., Diederich, A., & Wallsten, T. S. (2015). Models of decision making under risk and uncertainty, In *The oxford handbook of computational and mathematical psychology*. New York, NY, Oxford University Press. <https://doi.org/10.1093/oxfordhb/9780199957996.013.10>
- Hertwig, R., & Pleskac, T. J. (2008). The game of life: How small samples render choice simpler, In *The probabilistic mind: Prospects for bayesian cognitive science*. Oxford, UK, Oxford University Press.

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## 👥 Conference Proceedings

- Tump\*, A. N., Pleskac, T. J., & Kurvers, R. (2018). The impact of social information on the dynamics of decision making within groups., In *40th annual meeting of the cognitive science society*.
- Dai\*, J., Pleskac, T. J., & Pachur, T. (2017). A dynamic tradeoff model of intertemporal choice., In *39th annual meeting of the cognitive science society*.
- Leuker\*, C., Pleskac†, T. J., Pachur, T., & Hertwig, R. (2017). How the mind exploits risk-reward structures in decisions under risk, In *39th annual meeting of the cognitive science society*. Cognitive Science Society.
- Markant\*, D., Pleskac†, T. J., Diederich, A., Pachur, T., & Hertwig, R. (2015). Modeling choice and search in decisions from experience: A sequential sampling approach, In *37th annual meeting of the cognitive science society*. Cognitive Science Society.
- Bucci, D. J., Acharya, S., Pleskac, T. J., & Kam, M. (2014). Subjective confidence and source reliability in soft data fusion, In *2014 48th annual conference on information sciences and systems (ciss)*. IEEE.
- Wershba\*, A., & Pleskac, T. (2010). Making assessments while taking sequential risks, In *Proceedings of the annual meeting of the cognitive science society*.
- Pleskac, T. J., & Busemeyer, J. (2007). A dynamic, stochastic theory of confidence, choice, and response time, In *Proceedings of the 29th annual cognitive science society*. Cognitive Science Society Austin, TX.



- Norman, K. L., & Pleskac, T. (2002). Conditional branching in computerized self-administered questionnaires on the world wide web, In *Proceedings of the human factors and ergonomics society annual meeting*. SAGE Publications Sage CA: Los Angeles, CA.

## INVITED PRESENTATIONS

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**Santa Fe, NM** Invited talk at Santa Fe Institute; *Blinded versus unblinded review: A field study comparing the equity and fairness of review processes*; 2021

**Fort Collins, CO (Virtual)** Invited talk at Colorado State University, Department of Psychology; *Comparison of single- and double-blind review of scientific abstracts for a high stakes international conference*; 2021

**Virtual** Brunswik Society Annual Meeting; *Why the risk-reward relationship can be a key structure for taming uncertainty*; 2020

**Columbia, MO (Virtual)** Invited talk at University of Missouri, Department of Psychology; *Comparison of single- and double-blind review of scientific abstracts for a high stakes international conference*; 2020

**Kansas City, KS** Invited talk at the Kansas City Public Library and Linda Hall Library; *Tools for Thinking about Risk During the Pandemic*; 2020

**Pittsburgh, Pennsylvania** Invited talk at Carnegie Mellon University, Center for Behavioral Decision Research; *Building a science of small yet significant decisions*; 2018

**Lincoln, NE** Invited talk at the University of Nebraska, Center for Brain, Biology, and Behavior; *Building a science of small yet significant decisions*; 2018

**Lawrence, Kansas** Invited talk at the University of Kansas, Department of Psychology; *Building a science of small yet significant decisions*; 2017

**Iowa City, Iowa** Invited talk at the University of Iowa, Department of Psychology; *Modeling adaptive exploration in decisions from experience*; 2017

**London, UK** Invited talk at the University College London, Institute of Cognitive Neuroscience; *How an adaptive mind tames uncertainty with experience*; 2017

**East Lansing, Michigan** Invited talk at Michigan State University, Department of Psychology; *Building a science of small yet significant decisions*; 2017

**Coventry, UK** Quantum Cognition Workshop, hosted at the University of Warwick in collaboration with the 2017 MathPsych/ ICCM Conference; *Quantum random walks*; 2017

**Barcelona, Spain** Conference and Workshop on Neural Information Processing Systems (NIPS). NIPS 2016 Workshop "Imperfect Decision Makers: Admitting Real-World Rationality"; *Rationality and quantum models of decision making*; 2016

**Paris, France** Brain & Spine Institute (ICM), Symposium on Biology of Decision Making; *The dynamic nature of confidence*; 2016

**Emmetten, Switzerland** Workshop on Sequential Sampling Models hosted by University of Basel, Switzerland, *The dynamic nature of confidence*; 2016

**Potsdam, Germany** Workshop hosted by University of Warwick on the Nature of Preferences; *Modeling the construction of preference with quantum theory*; 2016

**Newcastle, Australia** Invited talk at the University of Newcastle, Psychology Department; *Rationality and quantum models of decision making*; 2016

**Newcastle, Australia** Invited talk at the University of Newcastle, Center for Computer Assisted Research Mathematics and its Applications; *Modeling belief formation one step at a time*; 2016

**Sydney, Australia** Invited talk at the University of New South Wales, Psychology Department; *Modeling the effect of stereotypes on the decision to use deadly force*; 2016

**Heidelberg, Germany** Symposium on the Quantity of Information and Quality of Decisions, hosted by the University of Heidelberg, Alfred Weber Institute, Economics Department; *How an adaptive mind exploits the relationship between risks and rewards*; 2016

**Chicago, Illinois** Invited talk at the University of Chicago, Booth School of Business. Marketing Department; *How an adaptive mind exploits the relationship between risks and rewards*; 2015

**Budapest, Hungary** Invited talk for receiving the Jane Beattie Scientific Recognition Award presented at the Conference on Subjective Probability, Utility and Decision Making (SPUDM), hosted by the European Association for Decision Making; *Ecologically rational choice in a structured environment*; 2015

**Provence, France** Conference on Subjective Confidence: Psychology, Physiology, Theory, hosted by Les Treilles Foundation; *Post decisional processing: Its effects on confidence and belief*; 2015

**Basel, Switzerland** Invited talk at the University of Basel, Psychology Department; *Post decisional processing: Its effects on confidence and belief*; 2015

**Berlin, Germany** Cognitive Neuroscience Forum, hosted by the Freie Universität, Berlin *Post decisional processing: Its effects on confidence and belief*; 2014

**Coventry, UK** Decision Research Forum, hosted by the University of Warwick; *Ecologically rational choice in a structured environment*; 2014

**Barcelona, Spain** Invited talk, Pompeu Fabra University, Department of Economics and Business; *Ecologically rational choice in a structured environment*; 2014

**Ann Arbor, Michigan** Decision Consortium, hosted by the University of Michigan; *How people make decisions under uncertainty*; 2014

**Chicago, Illinois** Invited talk at the University of Chicago, Booth School of Business, Center for Decision Research; *Modeling belief formation one time step at a time*; 2012

**Irvine, California** Invited talk at the University of California, Irvine, Department of Cognitive Sciences; *Modeling belief formation one time step at a time*; 2012



## TEACHING

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### Professional Workshops

- Decision making across the lifespan (1, three-hour session).
- Bayesian data analysis for everyday researchers (6, one-hour sessions)
- Sequential sampling models with an emphasis on drift diffusion models (2, day-long sessions).
- Computational models of decision making (8, one-hour sessions)

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### University of Kansas

Data 1: Dealing with data PSYC/POLS/ECON/SOC 199 Spring 2022, Fall 2022

Behavioral Economics; PSYC 513/ECON 513 Fall 2020; Fall 2021

Judgment & Decision Making; PSYC 469 Spring 2019; Fall 2019

Bayesian Data Analysis; PSYC 797/PSYC 698 (initially PSYC 690) Spring 2019; Spring 2020; Spring 2021

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### Michigan State University

Research Design and Methods

Data analysis in Psychological Research

Introduction to Psychology

Current Topics in Cognitive Science

Higher-Order Cognitive Processes

Cognitive Modeling

Psychology Experiments with E-Prime

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### University of Basel, Switzerland

Negotiation Theory

Behavioral Game Theory

Mathematical Models in Psychology

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### University of Maryland, College-Park

Lab Instructor: Quantitative Methods I and II

Lab Instructor: Introduction to Statistics

TA: Memory & Cognition

## ADVISING

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### Post-Doctoral Advisor

Jun Fang 2022–

Joshua Abbott 2017–2018

Shuli Yu 2015–2017

Dirk Wulff 2015–2016

Junyi Dai 2014–2017

Doug Markant 2014–2017

Matt Zeigenfuse 2011-12

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## Graduate Student Advisor

James Adaryukov (Chancellor's Fellowship) 2020 – Ongoing

Xiaohon Cai 2019 – Ongoing

Charley Wu PhD 2019

Christina Leuker PhD 2018

Peter Kvam PhD 2017

David Johnson PhD 2017

Shuli Yu PhD 2015

Avi Wershbale Masters 2010

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## Doctoral Committee

Haoyi Wei KU Economics

Sabrina Gregersen KU

Lauren Bayless KU

Zachary Roman KU

Trevor Swanson KU

Richard Kinai KU

Mark Anderson KU

Kevin Weingarten KU Music

Nina Ra KU Economics

Hiroaki Sakaguchi Warwick University

Helen Steingröver University of Amsterdam

Ash Luckman University of New South Wales

Matt Grizzard MSU

Jonathan Hakun MSU

James Grand MSU

John Dewey MSU

Emily Darowski MSU

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## Master's Committee

Alan Wedd MSU

Paul Cornwell MSU

Matt Grizzard MSU

David Clare MSU

Briana DeAngelis MSU

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## Bachelor's Honors Thesis

Brittany Huang KU

Andrii Zakharov, Humboldt University

Patricia Zdziarska MSU

Claudia Passalacqua MSU

Aaron Levin MSU  
Torrin Liddell MSU  
Alex Jendrusina MSU  
J. Ryan Brunton MSU  
Pierra Jones Basel

## EDITORIAL & REVIEWER EXPERIENCE

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Associate Editor

**Perspectives on Psychological Science**

📅 2022 -

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Associate Editor

**JEP: General**

📅 2015-2017; 2020 -2021

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Associate Editor

**Psychological Science**

📅 2016-2019

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Guest Editor

**topiCS**

📅 2020

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Guest Editor

**Journal of Mathematical Psychology**

📅 2009

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Editorial Board

**Psychonomic Bulletin & Review** 2020-Ongoing (Consulting Editor)

**Psychological Review** 2019-Ongoing

**Journal of Experimental Psychology: General** , 2012, 2013, 2014, 2019 - 2020

**Journal of Mathematical Psychology** 2018- Ongoing (Consulting Editor)

**Decision** 2016- Ongoing

**Psychological Science** 2012-2015

**Journal of Behavioral Decision Making** 2015 - Ongoing

**Frontiers in Cognitive Science** 2010-2014

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Steering Committee

**Judgment & Decision Making**

📅 2017-2019

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## Ad Hoc Manuscript Reviewer

Acta Psychologica; Attention, Perception & Psychophysics; Behavior Research Methods; Brain Research; Cognition; Cognitive, Affective, and Behavioral; Neuroscience; Cognitive Psychology; Cognitive Systems Research; Decision; Emotion; European Journal of Social Psychology; Frontiers in Cognitive Science; Human Brain Mapping; Journal for the Society of Judgment and Decision Making; Journal of Applied Research in Memory and Cognition; Journal of Behavioral Decision Making; Journal of Behavioral Research; Journal of Experimental Psychology (JEP): General; JEP: Human Perception & Performance ; JEP: Learning, Memory, & Cognition; Journal of Mathematical Psychology; Journal of Research in Personality; Management Science ; Memory and Cognition ; Nature; Neuron; Organizational Behavior & Human Decision Processes; Personality Disorders: Theory, Research, and Treatment; PLOSOne; PNAS; Psychological Review; Psychological Science; Psychonomic Bulletin & Review; Social, Cognitive, & Affective Neuroscience; Topics in Cognitive Science; Theory & Decision; WIRE Cognitive Science

## Grant Review Panel

**NSF: Decision, Risk, and Management Science**

📅 2020 - Ongoing

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## Ad Hoc Grant Reviewer

National Science Foundation

Air Force Office of Scientific Research

Swiss National Science Foundation

Israel Binational Science Foundation

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## Promotion & Tenure External Letter Writer

2017 1 letter

2018 2 letters

2019 1 letter

2020 1 letter

2021 4 letters

2022 4 letters

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## SERVICE

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### Professional

- Organized OKJDM Regional Judgment & Decision Making Conference (Virtual)(created new format, 2 invited speakers, 9 talks, 7 flash talks, approx 50 attendees), 2021
- Organized first ever Society of Judgment & Decision Making Virtual Annual Meeting (created new format, moved to double-blind review, boosted attendance by 150%) (with Julia Minson, Dan Feiler, and Shai Davidai), 2020
- Organized Current Trends in Mathematical Psychology Satellite Meeting (Montreal, CA), 2019
- Chaired Senior Fellow Award for Mathematical Psychology Award Committee, 2019
- Designed Senior Fellow Award for the Society for Mathematical Psychology, 2018
- Chair de Finetti Young Investigator Award, 2019
- Executive Board, Society for Mathematical Psychology, 2017- 2019; 2021 -
- Executive Board, European Association for Decision Making, 2017-2019
- Jane Beatie scientific recognition award committee, 2016 - Ad hoc reviewer for SJDM meeting, 2016

- Chair of Einhorn young investigator award committee for SJDM, 2012, 2013, 2014
- Einhorn young investigator award committee, SJDM, 2010, 2011
- Chair of organizing committee for the first annual Midwest Cognitive Meeting ( 100 attendees) (now an annual conference rotating around the Midwest), 2011
- Co-chair of first bi-annual conference on Cognitive Decision Theory / Wallsten Festschrift (~ 40 attendees) 2012
- Program committee for annual meeting of the Cognitive Science Society, 2010, 2011, 2012

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## University of Kansas

- Chair of Search Committee for Assistant Professor of Psychology (Computational Neuroscience), Department of Psychology, 2021
- Member of KU Research Technology Workgroup, Office of Research, 2021
- Member of KU Faculty Advisory of COVID Preparation, ad hoc, 2020
- Chair of Search Committee for Assistant Professor of Psychology, Department of Psychology, 2019
- CLAS Quant Literacy Center Work Group, College of Liberal Arts & Sciences, 2019 – 2020
- Chair of Search Committee for Visiting Assistant Professor of Psychology (Quantitative), Department of Psychology, 2019
- Post-tenure review committee, Department of Psychology, 2019
- CLAS Quantitative Pathways: Non-STEM Majors Subcommittee, College of Liberal Arts and Sciences, 2019
- Program Director; Brain, Behavior, & Quantitative Science Program, Department of Psychology, 2018 – Ongoing
- KU Office of Research Committee on Promotions, KU Office of Research 2018, 2019, 2020
- Chair of ad hoc committee to reorganize Department of Psychology's Cognitive, Quantitative, and Developmental programs (creating the Brain, Behavior, & Quantitative Science Program), 2018

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## Max Planck Institute for Human Development

- Co-lead Center for Adaptive Rationality (2014–2018)
  - Managed research staff (>40)
  - Oversaw and co-directed multi-million euro interdisciplinary research portfolio.
  - Hired 3 research scientists, 6 post docs, 6 doctoral students.
- External Member of Lifespan Institute Hiring Committee, 2014–2016

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## Michigan State University

- Chair of Quantitative Search Committee, 2012
- Chair Quantitative Methods and Evaluation Science Concentration, 2011–2013
- Opportunity Hire Committee, 2008
- Member of Cognitive Science Program , 2007–2014
- Cognitive Science Distinguished Speaker Committee, 2008
- Member of Cognition & Cognitive Neuroscience Interest Group at MSU
- Comps Revision Committee, 2010
- Cognitive Interest Group Website Committee, Department of Psychology, 2007, 2008, 2009, 2010

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## Other institutions

- University of Maryland–College Park Senator,, 2002–2003
- APA-Graduate Student Campus Representative, 2001–2002