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ACADEMIC POSITIONS

2023-present Director, Computational Cognition (CoCo) Center of Excellence, Georgia Tech
2022-present Blanchard Early Career Professor, School of Psychology, Georgia Tech
2021-present Associate Professor, School of Psychology, Georgia Tech
2015-2021 Assistant Professor, School of Psychology, Georgia Tech
2012-2015 Postdoc in Cognitive Neuroscience, UC Berkeley (Advisor: Mark D'Esposito)

EDUCATION

2007-2012 Ph.D. in Psychology, Columbia University (Advisor: Hakwan Lau)
2003-2007 B.A. in Psychology, Harvard University (*Summa cum laude, Highest Honors*)

HONORS AND AWARDS

2023 Federation of Associations in Behavioral & Brain Sciences (FABBS) Early Career Impact Award (nominated by the Psychonomic Society)
2023 Faculty Development Award, College of Science, Georgia Tech
2022 Vision Sciences Society (VSS) Young Investigator Award
2022 Cullen-Peck Award, College of Sciences, Georgia Tech (includes \$10,000 in funds)
2021 APA Distinguished Scientific Award for an Early Career Contribution to Psychology
Area: Behavioral and cognitive neuroscience; One award made every 2 years
2020,2021 Student Recognition of Excellence in Teaching: Class of 1934 Award, Georgia Tech
Recognizes teachers with top-40 student evaluation scores
2021 Reflective Teaching Badge, Georgia Tech
2020 Class of 1969 Teaching Fellow, Georgia Tech
2019 NSF CAREER Award (funding declined in lieu of an overlapping R01 award)
2019 Inaugural National Eye Institute Faculty Travel Award
2018-2022 Thank-a-teacher certificate (received 7 times), Georgia Tech
2012 Graduate Travel Award, Vision Sciences Society
2008 Okinawa Computational Neuroscience Summer Course (full expenses covered)
2007 Thomas T. Hoopes Prize for outstanding undergraduate thesis
2007 Phi Beta Kappa honors society for outstanding academic achievement
2004-2005 Harvard College Scholarship for academic excellence
2003 National diploma from Bulgarian Ministry of Education for outstanding achievements
2002-2003 Two Gold Medals from the International Mathematical Olympiad

CURRENT FUNDING

NIH R01 MH119189, *Uncovering the architecture of metacognition*
Period: 5/2020 – 3/2025 Role: PI Total amount: \$1,855,530

ONR Young Investigator, *Assessing and improving military personnel's metacognitive ability*
Period: 8/2020 – 8/2024 Role: PI Total amount: \$509,889

NIH R03 AG083314, *Mechanisms underlying age-based stereotype threat effects*
 Period: 7/2023 – 6/2025 Role: Consultant Total amount: \$156,000

COMPLETED FUNDING

NIH R21 MH122825, *Improving behavior with TMS: A concurrent TMS-fMRI approach*
 Period: 3/2020 – 2/2023 Role: PI Total amount: \$433,950

Georgia Tech Equipment Fund, *Neurotechnology for cognitive enhancement*
 Period: 1/2022 – 7/2022 Role: PI Total amount: \$378,559

Georgia Tech Class of 1969 Teaching Funds, *Neuroscience teaching equipment*
 Period: 1/2021 – 1/2022 Role: PI Total amount: \$1,000

NIH R56 MH119189, *Uncovering the architecture of metacognition*
 Period: 5/2019 – 4/2020 Role: PI Total amount: \$333,881

Oak Foundation, *Identifying dyslexia interventions for treatment nonresponders*
 Period: 7/2016 – 6/2019; Role: subaward PI Subaward amount: \$5,957

GSU/GT Center for Advance Brain Imaging Seed Grant
 Period: 7/2017 – 7/2018 Role: co-PI Total amount: \$8,500

NIH R03 MH103842, *Investigating brain network dynamics with simultaneous TMS-fMRI*
 Period: 4/2014 – 3/2016 Role: Postdoc Total amount: \$156,876

Harvard College Research Program grant, received 4 times
 Period: 2004-2006 Role: PI Total amount: \$13,000

PUBLICATIONS

52. Xue, K., Zheng, Y., Rafiei, F., & **Rahnev, D.** (in press). The timing of confidence computations in human prefrontal cortex. *Cortex*. [Data and Code](#). [Preregistration](#).
51. Chen, S. & **Rahnev, D.** (2023). Confidence response times: Challenging postdecisional models of confidence *Journal of Vision*, 23(7):11. [Data and Code](#).
50. Bliss, D.P., **Rahnev, D.**, Mackey, W.E., Curtis, C.E., & D'Esposito, M. (2023). Stimulation along the anterior-posterior axis of lateral frontal cortex reduces visual serial dependence. *Journal of Vision*, 23(7):1.
49. Mei, N., **Rahnev, D.**, & Soto, D. (2023). Using serial dependence to predict confidence across observers and cognitive domains. *Psychonomic Bulletin & Review*. [Data and Code](#).
48. Haddara, N. & **Rahnev, D.** (2022). The impact of feedback on perceptual decision making and metacognition: Reduction in bias but no change in sensitivity. *Psychological Science*, 33(2):259-275. [Data and Code](#). [Preregistration](#).
47. **Rahnev, D.**, Balsdon, T., Charles, L., de Gardelle, V., Denison, R.N., Desender, K., Faivre, N., Filevich, E., Fleming, S., Jehee, J., Lau, H., Lee, A.L.F., Locke, S.M., Mamassian, P., Odegaard, B., Peters, M.A.K., Reyes, G., Rouault, M., Sackur, J., Samaha, J., Sergent, C., Sherman, M., Siedlecka, M., Soto, D., Vlassova, A., & Zylberberg, A (2022). Consensus goals for the field of visual metacognition. *Perspectives on Psychological Science*, 17(6):1746-1765. [Data and Code](#).
46. Jin, S., Verhaeghen, P., & **Rahnev, D.** (2022). Across-subject correlation between confidence and accuracy: A meta-analysis of the Confidence Database. *Psychonomic Bulletin & Review*, 29(4):1405-1413. [Data and Code](#).

45. Rafiei, F. & **Rahnev, D.** (2022). TMS does not increase BOLD activity at the site of stimulation: A review of all concurrent TMS-fMRI studies. *eNeuro*, 9(4):1-14.
44. Goldstein, S., Rafiei, F. & **Rahnev, D.** (2022). 3D-printed stand, timing interface, and coil localization tools for concurrent TMS-fMRI experiments. *Brain Stimulation*, 15(5):1290-1291. [Code and tool descriptions](#).
43. **Rahnev, D.** (2021). Visual metacognition: Measures, models and neural correlates. *American Psychologist*, 76(9):1445–1453.
42. Shekhar, M. & **Rahnev, D.** (2021). The nature of metacognitive imperfection in perceptual decision making. *Psychological Review*, 128:45-70. [Data and Code](#).
41. Shekhar, M. & **Rahnev, D.** (2021). Sources of metacognitive inefficiency. *Trends in Cognitive Science*, 25(1):12-23.
40. **Rahnev, D.** (2021). Response bias reflects individual differences in sensory encoding. *Psychological Science*, 32(7):1157-1168. [Data and Code](#).
39. Rafiei, F., Safrin, M., Wokke, M.E., Lau, H., & **Rahnev, D.** (2021). Transcranial magnetic stimulation alters multivoxel patterns in the absence of overall activity changes. *Human Brain Mapping*, 42(12):3804-3820. [Data and Code](#).
[Received a certificate for a top downloaded article.]
38. Bang, J.W. & **Rahnev, D.** (2021). Awake suppression after brief exposure to a familiar stimulus. *Communications Biology*, 4:348. [Data and Code](#).
37. **Rahnev, D.** (2021). A robust confidence–accuracy dissociation via criterion attraction. *Neuroscience of Consciousness*, 2021(1): niab039. [Data and Code](#).
36. Rafiei, F. & **Rahnev, D.** (2021). Qualitative speed-accuracy tradeoff effects that cannot be explained by the diffusion model under the selective influence assumption. *Scientific Reports*, 11:45. [Data and Code](#).
35. Xue, K., Shekhar, M., & **Rahnev, D.** (2021). Examining the robustness of the relationship between metacognitive efficiency and metacognitive bias. *Consciousness and Cognition*, 95:103196. [Data and Code](#).
34. **Rahnev, D.**, Desender, K., Lee, A., ... Zylberberg, A. [83 authors] (2020). The Confidence Database. *Nature Human Behaviour*, 4:317-325. [Data and Code](#).
33. Yeon, J. & **Rahnev, D.** (2020). The suboptimality of perceptual decision making with multiple alternatives. *Nature Communications*, 11:3857. [Data and Code](#).
32. Yeon, J., Shekhar, M., & **Rahnev, D.** (2020). Overlapping and unique neural circuits support perceptual decision making and confidence. *Scientific Reports*, 10:20761. [Data and Code](#).
31. **Rahnev, D.** (2020). Confidence in the real world. *Trends in Cognitive Science*, 24(8):590-591.
30. **Rahnev, D.** (2020). Resource-rational analysis versus resource-rational humans. [Commentary to Lieder & Griffiths] *Behavioral and Brain Sciences*, 43:e19.
29. Hu, M. & **Rahnev, D.** (2019). Predictive cues reduce but do not eliminate intrinsic response bias. *Cognition*, 192:104004. [Data and Code](#).
28. Bang, J.W., Milton, D., Sasaki, Y., Watanabe, T., & **Rahnev, D.** (2019). Post-training TMS abolishes performance improvement and releases future learning from interference. *Communications Biology*, 2(1):320. [Data and Code](#).
27. Bang, J.W., Shekhar, M., & **Rahnev, D.** (2019). Sensory noise increases metacognitive efficiency. *Journal of Experimental Psychology: General*, 148(3):437-452. [Data and Code](#).
26. **Rahnev, D.** & Fleming, S.M. (2019). How experimental procedures influence estimates of metacognitive ability. *Neuroscience of Consciousness*, 2019(1):niz009. [Data and Code](#).
25. Verhaeghen, P., Geigerman, S., Yang, H., Montoya, A., & **Rahnev, D.** (2019). Resolving age differences in working memory: Removing differences in perceptual ability eliminates age-related working memory deficits. *Experimental Aging Research*, 45(2):120-134.

24. **Rahnev, D.** (2019). The Bayesian brain: What is it and do humans have it? [Commentary to Brette] *Behavioral and Brain Sciences*, 42:e238.
23. Michel, M., ... **Rahnev, D.**, ... (2019). Opportunities and Challenges for a Maturing Science of Consciousness. *Nature Human Behaviour*, 3:104-107.
22. **Rahnev, D.*** & Denison, R.* (2018). Suboptimality in perception decision making. [Target Article.] *Behavioral and Brain Sciences* 41(e223):1-66.
21. **Rahnev, D.** & Denison, R. (2018). Behavior is sensible but not globally optimal: Seeking common ground in the optimality debate. [Authors' Response to Commentaries.] *Behavioral and Brain Sciences*, 41, e251.
20. Shekhar, M. & **Rahnev, D.** (2018). Distinguishing the roles of dorsolateral and anterior PFC in visual metacognition. *Journal of Neuroscience* 38(22):5078-5087. [Data and Code](#).
19. Bang, J.W., Sasaki, Y., Watanabe, T., & **Rahnev, D.** (2018). Feature-specific awake reactivation in human V1 after visual training. *Journal of Neuroscience* 38(45):9648-9657. [Data and Code](#).
18. Michel, M., Fleming, S.M., Lau, H., Lee, A.L.F., Martinez-Conde, S., Passingham, R.E., Peters, M.A.K., **Rahnev, D.**, Sergent, C., & Liu, K. (2018). An informal internet survey on the current state of consciousness science. *Frontiers in Psychology* 9:2134.
17. Bang, J.W. & **Rahnev, D.** (2017). Stimulus expectation alters decision criterion but not sensory signal in perceptual decision making. *Scientific Reports* 7:17072. [Data and Code](#).
16. **Rahnev, D.** (2017). Top-down control of perceptual decision making by the prefrontal cortex. *Current Directions in Psychological Science* 26(5):464-469.
15. **Rahnev, D.** (2017). The case against full probability distributions in perceptual decision making. *bioRxiv* 108944.
14. **Rahnev, D.**, Nee, D.E., Riddle, J., Larson, A., & D'Esposito, M. (2016). Causal evidence for frontal cortex organization for perceptual decision making. *Proceedings of the National Academy of Sciences of the United States of America* 113(21):6059-6064. [Data and Code](#).
13. **Rahnev, D.**, Koizumi, A., McCurdy, L.Y., D'Esposito, M., & Lau, H. (2015). Confidence leak in perceptual decision making. *Psychological Science* 26(11):1664-1680. [Data and Code](#).
12. Morales, J., Solovey, G., Maniscalco, B., **Rahnev, D.**, de Lange, F.P., & Lau, H. (2015). Low attention impairs optimal incorporation of prior knowledge in perceptual decisions. *Attention, Perception, and Psychophysics* 77(6):2021-2036.
11. **Rahnev, D.**, Kok, P., Munneke, M., Bahdo, L., de Lange, F.P., & Lau, H. (2013). Continuous theta burst transcranial magnetic stimulation reduces resting state connectivity between visual areas. *Journal of Neurophysiology* 110(8):1811-1821.
10. **Rahnev, D.** (2013). Entrainment of neural activity using transcranial magnetic stimulation. *Journal of Neuroscience* 33(28):11325-11326.
9. de Lange, F., **Rahnev, D.**, Donner, T., & Lau, H. (2013). Pre-stimulus oscillatory activity over motor cortex reflects perceptual expectations. *Journal of Neuroscience* 33(4):1400-1410.
8. **Rahnev, D.**, Bahdo, L., de Lange, F.P., & Lau, H. (2012). Pre-stimulus hemodynamic activity in dorsal attention network is negatively associated with decision confidence in visual perception. *Journal of Neurophysiology* 108(5):1529-1536.
7. Kok, P., **Rahnev, D.**, Jehee, J., Lau, H., & de Lange, F. (2012). Attention reverses the effect of prediction in silencing sensory signals. *Cerebral Cortex* 22(9):2197-2206.
6. **Rahnev, D.**, Maniscalco, B., Luber, B., Lau, H., & Lisanby, S.H. (2012). Direct injection of noise to the visual cortex decreases accuracy but increases decision confidence. *Journal of Neurophysiology* 107(6):1556-1563.
5. **Rahnev, D.**, Huang, E., & Lau, H. (2012). Subliminal stimuli in the near absence of attention influence top-down cognitive control. *Attention, Perception, and Psychophysics* 74(3):521-532.

4. **Rahnev, D.**, Maniscalco, B., Graves, T., Huang, E., de Lange, F.P., & Lau, H. (2011). Attention induces conservative subjective biases in visual perception. *Nature Neuroscience* 14(12):1513-1515.
3. **Rahnev, D.**, Lau, H., & de Lange, F.P. (2011). Prior expectation modulates the interaction between sensory and prefrontal regions in the human brain. *Journal of Neuroscience* 31(29):10741-10748.
2. Nikolov, S.*, **Rahnev, D.***, & Lau, H. (2010). Probabilistic model of onset detection explains previous puzzling findings in human time perception. *Frontiers in Psychology* 1:37.
1. Caruso, E., **Rahnev, D.**, & Banaji, M. (2009). Using conjoint analysis to detect discrimination: Revealing covert preferences from overt choices. *Social Cognition* 27(1):128-137.

* authors contributed equally to the work

PEER-REVIEWED CONFERENCE PROCEEDINGS

2. Wei, S., Xie, Y., & **Rahnev, D.** (2021). Inferring serial correlation with dynamic backgrounds. *Proceedings of the 38th International Conference on Machine Learning (PMLR)* 139:11047-11057. [among 3% of papers selected for a long presentation after peer review]
1. Vergara, V.M., Rafiei, F., Wokke, M.E., Lau, H., **Rahnev, D.**, Calhoun, V.D. (2021). Evidence for Transcranial Magnetic Stimulation Induced Functional Connectivity Oscillations in the Brain. *43rd Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC)* 1407-1411.

SUBMITTED MANUSCRIPTS

1. Shekhar, M. & **Rahnev, D.** (in revision at *JEP:General*). How do humans give confidence? A comprehensive comparison of process models of metacognition. [Preprint](#). [Data and Code](#).
2. Nakuci, J., Yeon, J., Xue, K., Kim, J.-H., Kim, S.-P., & **Rahnev, D.** (in revision at *Cerebral Cortex*). Quantifying the idiosyncrasy in brain activations. [Preprint](#). [Data and Code](#).
3. Nakuci, J., Samaha, J., & **Rahnev, D.** (minor revision at *iScience*). Brain signatures indexing variation in internal processing during perceptual decision-making. [Preprint](#). [Data and Code](#).
4. Zheng, Y., Recht, S., & **Rahnev, D.** (in revision at *Neuroscience of Consciousness*). Blurring the lines between cognition and metacognition: the case of meta-metacognition. [Preprint](#). [Data and Code](#).
5. **Rahnev, D.**, Block, N., Denison, R.N., & Jehee, J. (in revision at *Neurons, Behavior, Data analysis, and Theory*). Is perception probabilistic? Clarifying the definitions. [Preprint](#).
6. **Rahnev, D.** (submitted). Measuring metacognition: A comprehensive assessment of current methods. [Preprint](#). [Data and Code](#).
7. Gao, Y., Xue, K., Odegaard, B., & **Rahnev, D.** (submitted). Common computations between automatic cue combination and metacognitive confidence judgments. [Preprint](#). [Data and Code](#). [Preregistration](#).
8. Yeon, J., Carlson, A., **Rahnev, D.*** & D'Esposito, M.* (submitted). Task learning is subserved by a domain-general brain network. [Preprint](#). [Data and Code](#).
9. Nakuci, J., Yeon, J., Kim, J.-H., Kim, S.-P., & **Rahnev, D.** (submitted). Multiple brain activation patterns for the same task. [Preprint](#).
10. Rafiei, F., Shekhar, M., & **Rahnev, D.** (submitted). RTNet: A neural network that exhibits the signatures of human perceptual decision making. [Preprint](#). [Data and Code](#). [Preregistration](#).
11. Elozegi, P., **Rahnev, D.**, & Soto, D. (submitted). Think twice: Re-assessing confidence improves visual metacognition. [Preprint](#). [Data and Code](#).
12. Haddara, N. & **Rahnev, D.** (submitted). Threat expectation does not improve perceptual discrimination despite causing heightened priority processing in the frontoparietal network. [Preprint](#). [Data and Code](#).

13. Chen, S. & **Rahnev, D.** (submitted). Signatures proposed to index perceptual effects emerge in a purely cognitive task. [Preprint](#). [Data and Code](#).

INVITED TALKS AND SYMPOSIA

- 2023 Brain Space Initiative (forthcoming)
- 2023 Florida State University colloquium (forthcoming)
- 2023 Neuroeconomics Seminar, University of Zurich
- 2022 RIKEN Center for Brain Science, Japan
- 2022 Neuromodulation and Neuroimaging Speaker Series, University of Pennsylvania
- 2022 ONR Cognitive Science of Learning Program Meeting
- 2022 Vision Science Society Young Investigator Award lecture
- 2022 Vision Science Society symposium
- 2021 Consciousness Club, University College London
- 2021 Cognition group, University of Stirling
- 2021 Cognitive lunch, University of Virginia
- 2021 ONR Cognitive Science of Learning Program Meeting
- 2021 Center for Cognitive and Brain Sciences, Indian Institute of Technology, Gandhinagar, India
- 2021 Perceptual Confidence and Uncertainty workshop, Paris, France
- 2021 What's new in Atlanta Neuroscience
- 2020 Cognitive Science Speaker Series, City University of New York (CUNY)
- 2020 Sensation and Perception series, UC San Diego
- 2020 Adversarial Collaboration on "Is Perception Probabilistic", CCN workshop
- 2020 École polytechnique fédérale de Lausanne (EPFL)
- 2020 Whitney lab, UC Berkeley
- 2020 Cognition and Brain Science brown bag, Georgia Tech
- 2019 New York University colloquium
- 2019 McGovern Institute, MIT
- 2019 Ling lab, Boston University
- 2019 Center for Translational Research in Neuroimaging and Data Science, Georgia State
- 2019 Smokies Cognition and Neuroscience Symposium (SCANS) Invited Talk
- 2018 Neuroscience Club, Georgia Tech
- 2018 Baylor College of Medicine
- 2017 Neuro Seminar Series, Georgia Tech/Emory
- 2016 GSU/GT Center for Advanced Brain Imaging
- 2016 Cognition and Brain Science brown bag, Georgia Tech
- 2016 College of Science Advisory Board, Georgia Tech
- 2015 Center for Visual and Neurocognitive Rehabilitation Seminar Series, Atlanta VA
- 2015 Engineering psychology brown bag, Georgia Tech
- 2015 Cognition and Brain Science brown bag, Georgia Tech
- 2014 Berkeley Neuroscience Conference
- 2014 Department of Cognitive Sciences colloquium, UC Irvine
- 2014 Psychology Department colloquium, University of Chicago
- 2014 School of Psychology colloquium, Georgia Tech
- 2013 Brain Lunch, UC Berkeley
- 2012 ASSC Invited Symposium Talk
- 2012 Adolphs lab, Caltech
- 2012 Cognitive Lunch, Columbia University
- 2012 Heatherton lab, Dartmouth College
- 2012 Kanwisher lab, MIT

- 2011 Carrasco lab, NYU
- 2010 Division Seminar, New York State Psychiatric Institute
- 2009 Donders Center for Cognitive Neuroscience, the Netherlands
- 2008 Cognitive Lunch, Columbia University
- 2008 Division Seminar, New York State Psychiatric Institute

PROFESSIONAL AND PUBLIC INVOLVEMENT

Editorial positions

2021-2023 Journal of Vision Associate Editor

Journal Reviews (70 different journals)

Acta Psychologica	Journal of Neuroscience
Attention, Perception and Psychophysics	Journal of Vision
Behavior Research Methods	Memory & Cognition
Behavioral and Brain Sciences	Metacognition and Learning
Biological Psychiatry	Mind & Language
BMC Biology	Nature
Brain and Behavior	Nature Communications
Brain Connectivity	Nature Human Behaviour
Brain Research	Nature Reviews Psychology
Brain Sciences	NeuroImage
Brain Stimulation	Neuron
Brain Structure & Function	Neuropsychologia
Cell Reports	Neuropsychology Review
Cerebral Cortex	Neuroscience & Biobehavioral Reviews
Cognition	Neuroscience of Consciousness
Cognitive Psychology	Open Mind
Cognitive Science	Oxford Research Encyclopedia of Neuroscience
Communications Biology	PLoS Computational Biology
Consciousness and Cognition	PLoS ONE
Cortex	PNAS
Current Biology	Personality and Individual Differences
eLife	Perspectives on Psychological Science
Experimental Brain Research	Philosophical Transactions B
European Journal of Neuroscience	Psychological Methods
Frontiers in Human Neuroscience	Psychological Review
Frontiers in Psychology	Psychological Science
Human Brain Mapping	Psychonomic Bulletin & Review
iScience	Psychophysiology
Journal of Experimental Psych: General	Royal Society Open Science
Journal of Experimental Psych: HPP	SCAN
Journal of Experimental Psych: LMC	Science Advances

Journal of Cognitive Neuroscience	Scientific Reports
Journal of Consciousness Studies	Translational Psychiatry
Journal of Intelligence	Trends in Cognitive Science
Journal of Neurophysiology	Vision Research

Grant Reviews

2022	NIH, Ad Hoc reviewer, Human Complex Mental Function (HCMF) Study Section
2022	French National Research Agency (ANR), Ad Hoc reviewer
2022	Fund Consciousness Science fund, Ad Hoc reviewer
2022	Templeton World Charity Foundation, Ad Hoc reviewer
2022	The British Academy, Ad Hoc reviewer
2020	NIH, Ad Hoc reviewer, Cognition and Perception (CP) Study Section
2020	Belgian Fund for Scientific Research (F.R.S.-FNRS), Ad Hoc reviewer
2019	NIH, Ad Hoc reviewer, Sensory, Perceptual and Cognitive Processes (SPC) Study Section
2019	NSF, Ad Hoc reviewer, Program in Cognitive Neuroscience (CogNeuro)
2019,2020	NSF, Ad Hoc reviewer, Program in Perception, Action, and Cognition (PAC)
2019	Wellcome Trust Foundation, Ad Hoc reviewer, Sir Henry Dale Fellowship
2019	National Science Center of Poland, Ad Hoc reviewer
2019	Icelandic Research Fund, Ad Hoc reviewer
2018,2020	Georgia State/GT Center for Advanced Brain Imaging seed grant program
2018	Austrian Science Fund, Ad Hoc reviewer

Conference Reviews

2021-present	Vision Science Society, Abstract Review Committee member
2018	Cognitive Computational Neuroscience conference, Abstract reviewer

Conference/Workshop organization

2022,2023	Co-organizer (with Steve Fleming, Lucie Charles, and Megan Peters) of ASSC satellite on Perceptual Metacognition
2022	Program committee member, Collaborative Research in Computational Neuroscience (CRCNS) PI meeting, Atlanta, GA
2020	Organizer of virtual workshop on “Is Perception Probabilistic?” sponsored by the Cognitive Computational Neuroscience (CCN) conference, >250 attendees
2020	Organizer of workshop on “The goals for the field of visual metacognition” that brought together 26 scientists to determine a joint list of long- and medium-term goals, 27 attendees

Media

- *Interviewed by InnerDrive about human metacognition (2023)*
- *Shekhar & Rahnev (2018) Journal of Neuroscience*
 - Covered by: The Data Organization, MedWorm, Technology Networks, Pinterest Neuropsychology Research
- *Rahnev et al. (2016) PNAS*
 - SfN Hot Topics media release
 - Covered by: Daily Mail, Yahoo! News, Science 2.0, Technology.org, Medical News Today, The Times of India, Scicasts, Big News Network, Newswise, and 10 others
- *Rahnev et al (2015) Psychological Science*
 - Covered by: Association for Psychological Science official website

- *Rahnev et al (2011) Nature Neuroscience*
 - Covered by: Nature NeuroPod podcast
- *Harvard senior thesis & Caruso, Rahnev, & Banaji (2009) Social Cognition*
 - Covered by: The Economist

MENTORING

Postdocs

- Medha Shekhar (2023-present)
- Marshall Green (2022-present)
 - Best Poster award, Georgia Tech Psychology welcome back event, 2022
- Yi Gao (2021-present)
- Johan Nakuci (2020-present)
 - Cognitive Neuroscience Society (CNS) Postdoctoral Fellow Award winner, 2021
 - Best Theoretical Contribution prize, Georgia Tech Psychology welcome back event, 2022
- Bryan Conklin (2021-2022)
 - Next position: Senior DeFi Researcher at Celsius X
- Ji Won Bang (2016-2018)
 - Next position: postdoc at NYU medical school

Ph.D. Students

- Herrick Fung (2023-present)
- Kai Xue (2022-present)
- Yunxuan Zheng (2022-present)
- Nadia Haddara (2018-present)
 - Georgia Tech Psychology Best Paper Award, 2023
- Samuel Goldstein (2020-2022)
 - Presidential scholarship
 - Next position: Data Scientist at World Wide Technology
- Farshad Rafiei (2016-2022)
 - Georgia Tech Psychology Best Student Award, 2022
 - Next position: Machine Learning Scientist at IQVIA
- Medha Shekhar (2016-2021)
 - Georgia Tech Psychology Best Student Award, 2021
 - Next position: Postdoc at University College London (PI: Ray Dolan)
- Jiwon Yeon (2016-2021)
 - Georgia Tech Psychology Best Paper Award, 2021
 - Association of Korean Neuroscientists Outstanding Research Award, 2021
 - Next position: Postdoc at Stanford (PI: Justin Gardner)
- Valeria Tretyak (2015; next position: doctoral student at UT Austin)

Masters Students

- Sneha Venkatachalam (2017-2018; next position: software engineer at Paypal)
- Nidhi Menon (2017-2018; next position: data scientist at Autodesk)

Lab Managers

- Kai Xue (2020-2022; next position: PhD student at Georgia Tech)

Undergraduate Students

* indicates undergraduate co-authors on journal articles

ST indicates the completion of a Senior Thesis in Dr. Rahnev's lab

^{PURA} indicates winners of Georgia Tech's Presidential Undergraduate Research Award (PURA)

^{Leddy} indicates winners of Georgia Tech's Leddy Family scholarship

Georgia Tech

Sunny Jin^{*, ST, PURA}, Minzhi Wang^{*, PURA}, Mingjia Hu^{*}, Diana Milton^{*}, Brooklyn CrabtreeST, Alexis WebberST, Tristan HackmanST, Samuel Weiss-Cowie^{Leddy}, Gianna Capozzi, Sohum Gaitonde, Snehanjali Jayanthi, Divya Tadanki, Nikko Beady, Ashley Hong, Daniel Kim, Sahithi Pandi, Ana Shin, Rory Brown, Corey Breeland, Amber Fischer, Alwin Khoja, Himanaga Pandi, Lokranjan Lakshmikanthan, Anika Halder, Huy Trinh, Varunil Shah, Joshua Gaul, Mia Huff, Taylor Helfrich, Farooq Sheikh, Ashna Bhardwaj, Emine Zeynep Ulutas, Milan Patel, Nathan Hartley, Caterina Rossie, Austin Karesh, Amulya Noone, Aditya Prakash, Tralucia Powell, Alan Hoang, Riley Brooksher, Megan Kelly, Khue Tran, Siena Tetali, Elisabeth Clonts, Sora Bang, Lindley Hudson, Juliana Trach, Laura-Anne Thompson, You Zheng, Ranjani Sundaresan

UC Berkeley

Alina Larson^{*}, Xin Zhao

Columbia

Elliott Huang^{*}, Linda Bahdo^{*}, Stanislav Nikolov^{*}, David Zhou, Guy Graney, Evan Griffith, Jenessa Holder, Jan-Michael Rives, James Cunningham, Joshua Erb, Samantha Schipani, Mia Schachter, Ian Kwok, Rachel Kasha

SERVICE

Professional service

2023	Moderator, Vision Science Society annual meeting
2023-present	Member, Digital Lab scientific advisory committee
2023-present	Member, Neuroengineering Center Student Awards Committee
2023	Member, Neuroscience cluster hire working group
2022-present	Member, Center for Advanced Brain Imaging (CABI) Advisory Committee
2021-present	Area Coordinator, Cognition and Brain Sciences, Georgia Tech
2020-present	Organizer, Growing Up in Science talk series, Georgia Tech
2019-present	IRB Consultant, Georgia Tech
2019-present	Member, Multiple Faculty Search Committees, Georgia Tech (elected DEI advocate)
2020-2023	Member, School of Psychology Diversity Committee, Georgia Tech
2018-2023	Member, Atlanta Chapter of the Society for Neuroscience (ACSFN) Council
2021-2023	Brown bag faculty sponsor, Cognition and Brain Sciences, Georgia Tech
2021-2022	Organizer, Neuroscience Seminar Series, Georgia Tech
2021-2022	Member, Holistic Admission Committee, Georgia Tech
2021-2022	Member, Critical Review Committee, Georgia Tech
2021	Presenter, New Faculty Welcome Event, Georgia Tech
2019-2021	Member, College of Sciences Faculty Diversity Council, Georgia Tech
2018-2021	Member, Center for Advanced Brain Imaging (CABI) Operations Committee
2020-2021	Organizer, School of Psychology Colloquium Series, Georgia Tech
2020-2021	Member, College of Sciences Task Force on Racial Equity, Georgia Tech
2019-2021	Member, Graduate Student Committee, Georgia Tech
2017-2018	Neuroscience Liaison, School of Psychology, Georgia Tech
2016-2017	Organizer, School of Psychology Colloquium Series, Georgia Tech
2015-2016	DOTe (Teaching observation and evaluation), Georgia Tech
2013	Student mentor, Association for the Scientific Studies of Consciousness
2008-2010	IT Assistant, Department of Psychology, Columbia University

Community Outreach

- 2022-present Faculty Mentor, Neuromatch Academy
- 2021-present Faculty Mentor, Research Experience for Undergraduates (REU) program
- 2020 FOCUS program participant providing graduate admission guidance to URM undergrads
- 2017 Atlanta Brain Awareness Month Program for disadvantages high school students
- 2016 Georgia Tech School of Psychology summer camp for high school students

Professional Memberships

- Vision Science Society (VSS)
- Cognitive Computational Neuroscience (CCN)
- Cognitive Neuroscience Society (CNS)
- Psychonomics Society
- Society for Neuroscience (SfN)
- Association for the Scientific Study of Consciousness (ASSC)
- Phi Beta Kappa Society

Dissertation committees

- 2023 Haleh Falakshahi (Georgia Tech, Electrical and Computer Engineering)
- 2022 Leonel Tapia (Universidad del Desarrollo, Chile)
- 2022 Jason Tsukahara (Georgia Tech, Psychology)
- 2022 Farshad Rafiei (Georgia Tech, Psychology; primary advisor)
- 2022 Ashkan Faghiri (Georgia Tech, Electrical and Computer Engineering)
- 2021 Hongting Zhao (Georgia Tech, Biomedical Engineering)
- 2021 Farshad Rafiei (Georgia Tech, Psychology; primary advisor)
- 2021 Charles Ferris (Emory)
- 2021 Jiwon Yeon (Georgia Tech, Psychology; primary advisor)
- 2021 Medha Shekhar (Georgia Tech, Psychology; primary advisor)
- 2021 Taylor Curley (Georgia Tech, Psychology)
- 2020 Joshua Calder-Travis (Oxford, UK)
- 2020 Elyse Norton (NYU)
- 2019 Euisun Kim (Georgia Tech, Biomedical Engineering)
- 2019 Derek Smith (Georgia Tech, Psychology)
- 2019 David Illingworth (Georgia Tech, Psychology)
- 2016 Savannah Cookson (Georgia Tech, Psychology)

Preliminary examination committees

- 2023 Reba Koenen
- 2022 Sakshi Dhawan
- 2021 Justin Sukernek
- 2021 Jason Tsukahara
- 2021 Yunji Lee
- 2021 Dolly Seeburger
- 2020 Farshad Rafiei (primary advisor)
- 2020 Jiwon Yeon (primary advisor)
- 2020 Medha Shekhar (primary advisor)
- 2019 Keenan May
- 2018 Taylor Curley
- 2017 Derek Smith

Master's committees

- 2022 Samuel Goldsein (primary advisor)
- 2021 Maugan Lloyd
- 2020 Soroush Mirjalili
- 2017 Medha Shekhar (primary advisor)

First Year Ph.D. committees

- 2017 Farshad Rafiei (primary advisor)
- 2017 Jiwon Yeon (primary advisor)
- 2017 Rachel Boyd

Undergraduate thesis committees

- 2022 Mary Kate Gale (Biology)
- 2021 Sunny Jin (Neuroscience; primary advisor)
- 2021 Sophia Martin (Psychology)
- 2021 Patricia Suzanne Eastwood (Psychology)
- 2020 Brooklyn Crabtree (Neuroscience; primary advisor)
- 2020 Alexis Webber (Biomedical engineering; primary advisor)
- 2020 Qing Zou (Psychology)
- 2019 Juliana Alfonso (Psychology)
- 2017 Tristan Hackman (Psychology; primary advisor)
- 2015 Christine Lee (Psychology)

CONFERENCE PRESENTATIONS (talks only)

- 20. **Rahnev, D.** Measuring metacognition: A comprehensive empirical assessment of current methods. Association for the Scientific Studies of Consciousness (ASSC), June, 2023.
- 19. Zheng, Y., Xue, K., Shekhar, M., & **Rahnev, D.** A common computational principle for decision-making with confidence, expectation and reward. Vision Sciences Society (VSS), May, 2023.
- 18. Nakuci, J., Yeon, J., Kim, J.H., Kim, S.P., & **Rahnev, D.** Brain connectivity profiles associated with perceptual task performance. Association for the Scientific Studies of Consciousness (ASSC), June, 2021.
- 17. **Rahnev, D.** & Shekhar, M. Where does metacognitive inefficiency come from? Association for the Scientific Studies of Consciousness (ASSC), June, 2021.
- 16. Shekhar, M. & **Rahnev, D.** How do humans give confidence? Comparing 12 popular process models. Association for the Scientific Studies of Consciousness (ASSC), June, 2021.
- 15. **Rahnev, D.** Criterion attraction in an external-noise paradigm. Vision Sciences Society (VSS), May, 2021.
- 14. Yeon, J. & **Rahnev, D.** The suboptimality of perceptual decision making with multiple alternatives. Neuromatch 2 conference, May, 2020.
- 13. Rafiei, F. & **Rahnev, D.** Speed-accuracy tradeoff heightens serial dependence. Vision Sciences Society (VSS), May, 2019.
- 12. **Rahnev, D.** & Bang, J.W. TMS to V1 abolishes visual learning and releases future learning from interference. North Georgia Regional Annual Memory Meeting (NGRAMM), January, 2018.
- 11. **Rahnev, D.**, Bang, J.W., Shekhar, M. The influence of low-level stimulus characteristics on metacognitive efficiency. Vision Sciences Society (VSS), May, 2018.
- 10. Bang, J.W., Sasaki, Y., Watanabe, T., & **Rahnev, D.** Evidence for awake replay in human visual cortex after training. Vision Sciences Society (VSS), May, 2017.

9. Bang, J.W., Sasaki, Y., Watanabe, T., & **Rahnev, D.** Evidence for Awake Replay in Human Visual Cortex after Training. North Georgia Regional Annual Memory Meeting (NGRAMM), October, 2016.
8. **Rahnev, D.**, Larson, A., & D'Esposito, M. Causal mapping of lateral prefrontal regions to separate stages of perceptual decision-making. Society for Neuroscience (SfN), November, 2013.
7. **Rahnev, D.**, Larson, A., & D'Esposito, M. Causal mapping of lateral prefrontal regions to separate control processes in perceptual decision-making. Bay Area Memory Meeting (BAMM), August, 2013.
6. Solovey, G., Maniscalco, B., **Rahnev, D.**, & Lau, H. Inflation of subjective perception in peripheral vision. Vision Sciences Society (VSS), May, 2013.
5. Lau, H., Morales, J., & **Rahnev, D.** Violation of Bayesian cue integration principle under attentional cuing. Vision Sciences Society (VSS), May, 2012.
4. **Rahnev, D.**, Maniscalco, B., & Lau, H. Direct injection of neural noise leads to double dissociation between accuracy and confidence. Vision Sciences Society (VSS), May, 2012.
3. de Lange, F., **Rahnev, D.**, Donner, T., & Lau, H. Baseline MEG activity fluctuations in decision-related regions bias upcoming perceptual choice. European Conference on Visual Perception (ECVP), August, 2011.
2. Lau, H. & **Rahnev, D.** The paradoxical negative relationship between attention-related spontaneous neural activity and perceptual decisions. Vision Sciences Society (VSS), May, 2011.
1. **Rahnev, D.** Preliminary results on a new method for revealing implicit attitudes. New Bulgarian University International Psychological Conference, July, 2006.

TEACHING

Course Instructor, Georgia Tech (last 6 years)

** Awarded the Student Recognition of Excellence in Teaching: Class of 1934 CIOS Honor Roll (award established in Fall, 2019)*

Fall, 2023	Sensation and Perception (Psyc 3040)	Class size: 200	Score: pending
Spring, 2023	Cognitive Neuroscience (Psyc 4090)	Class size: 42	Score: 4.9*
Fall, 2022	Sensation and Perception (Psyc 3040)	Class size: 147	Score: 4.8*
Fall, 2021	Sensation and Perception (Psyc 3040)	Class size: 100	Score: 4.9*
Spring, 2021	Cognitive Neuroscience (Psyc 4090)	Class size: 42	Score: 4.8*
Fall, 2020	Sensation and Perception (Psyc 3040)	Class size: 69	Score: 4.9*
Spring, 2020	Cognitive Neuroscience (Psyc 4090)	Class size: 31	Score: not collected
Spring, 2020	Graduate Cog Neuro (Psych 6090)	Class size: 10	Score: not collected
Fall, 2019	Sensation and Perception (Psyc 3040)	Class size: 70	Score: 4.7
Spring, 2019	Cognitive Neuroscience (Psyc 4090)	Class size: 21	Score: 4.8
Fall, 2018	Sensation and Perception (Psyc 3040)	Class size: 74	Score: 4.7
Spring, 2018	Graduate Cog Neuro (Psych 6090)	Class size: 10	Score: 5
Spring, 2018	Cognitive Neuroscience (Psyc 4090)	Class size: 12	Score: 4.8
Fall, 2017	Sensation and Perception (Psyc 3040)	Class size: 72	Score: 4.8
Spring, 2017	Cognitive Neuroscience (Psyc 4090)	Class size: 12	Score: 4.8

Course Instructor, Columbia

Summer, 2010 A New Look at Mathematics, Columbia Summer Program for High School Students
 Summer, 2009 College Prep: Mathematics, Columbia Summer Program for High School Students
 Summer, 2008 College Prep: Mathematics, Columbia Summer Program for High School Students

Graduate Teaching Fellow, Columbia

Spring, 2012 Attention and Perception (delivered guest lecture)

Fall, 2011	Judgment and Decision Making (delivered guest lecture)
Fall, 2010	Introduction to Statistics for Behavioral Scientists (led lab section)
Spring, 2010	The Science of Psychology (delivered guest lecture)
Spring, 2009	Attention and Perception (delivered guest lecture)
Fall, 2007	Personality Psychology