

Kevin Jarbo, PhD

Email kevinjarbo@gmail.com | kjarbo@cmu.edu

Phone 661 860 9086

Web <https://www.kevinjarbo.com>

Carnegie Mellon University

Department of Social & Decision Sciences

Porter Hall 223A

Education

Doctor of Philosophy, Psychology, August 2018

Certificate in Cognitive Neuroscience, Center for the Neural Basis of Cognition

Carnegie Mellon University

Dissertation Title: A Corticostriatal Mechanism for Integrating Subjective Value into Processes of Risky Decision-Making

[Download dissertation PDF](#)

Master of Science, Psychology, December 2015

Carnegie Mellon University

Bachelor of Science, Biological Sciences, December 2006

University of Pittsburgh

Professional Research Experience

2021-Present Assistant Professor (TT), Social and Decision Sciences, CMU

2018-2021 President's Postdoctoral Fellow, Social & Decision Sciences, CMU

Co-Advisors: Dr. Linda Babcock & Dr. Kody Manke

2013-2018 Graduate Student Researcher, Psychology & CNBC, CMU

Advisor: Dr. Timothy D. Verstynen

2012-2013 Clinical Research Assistant, Surgical Neuroanatomy Lab, University of Pittsburgh Medical Center (UPMC)

PI: Dr. Juan Fernandez-Miranda

2010-2013 Clinical Research Assistant, Department of Radiology, UPMC

2006-2013 Research Assistant, Schneider Lab, Learning Research and Development Center, University of Pittsburgh

PI: Dr. Walter Schneider

Grants Awarded

"Using fMRI-measured Attitudes and Actions to Predict Biased Decisions to Punish among White and Chinese Americans"

Role: Co-Principal Investigator

Kevin Jarbo, PhD

Co-PI: Roberto Vargas

Funding Source: American Psychological Foundation | Amount: \$19,980.

Current Status: Funded Dates: 4/2022–3/2023

Products To Date: 1 behavioral and 1 fMRI study to be launched Summer 2022

“Understanding the impact of stereotype threat on decision-making”

Role: Co-Principal Investigator

Co-PIs: Dr. Linda Babcock (CMU), Dr. Kody Manke (CMU), Dr. Geoff Kaufman (CMU)

Funding Source: Russell Sage Foundation | Amount: \$169,611

Current Status: Funded Dates: 1 April 2019 - 30 September 2022

Products To Date: 5 pilot studies completed, analyses to be conducted Summer 2022

“Morality under uncertainty: The impact of moral framing on spatial decision-making”

Role: Co-Principal Investigator

Co-PI: David Colaço (University of Pittsburgh)

Funding Source: Templeton Foundation | Amount: \$17,314

Current Status: Funding Period Complete Dates: 1 August 2016 – 30 June 2018

Products To Date: 1 published manuscript, 1 manuscript in prep, 1 fMRI project in analysis

Grants Submitted

“CAREER: Stereotype threat, trust, and student decision-making in STEM: An interdisciplinary, mixed methods exploration into mechanisms and interventions”

Role: Principal Investigator

Funding Source: National Science Foundation

“Racial Equity: The Wealth Project–Disrupting systemic racism in mathematics through mentorship, access, and knowledge”

Role: Co-Principal Investigator

PI: Whitney Johnson (Morgan State University)

Co-PIs: Michael Young (CMU), Sarah Sword (Education Development Center, Inc.), Phil Dituri (FiCycle)

Funding Source: National Science Foundation

Manuscripts in Progress

Kevin Jarbo, PhD

Ng, T.L., Augustin, G., Barkley, J., Jay, L., Stempien-Smith, A., Lu, S., **Jarbo, K.**, Manke, K., Kaufman, G. (in preparation). Effects of Syllabus Diversity Statement Authorship and Philosophies on Student Perceptions and Academic Engagement.

Ai, A., Lapadat, A., Nam, K., Lu, S., **Jarbo, K.**, Manke, K., Kaufman, G. (in preparation). Do the source and motivation of diversity statements matter?

Jarbo, K. (in preparation). How the Importance of Trust Impacts Risk Preferences in Help-Seeking Decisions.

Colaço, D., & **Jarbo, K.** (in preparation). Predicting Moral Judgments from Moral Dispositions: Lessons from Decision-Making.

Kaufman, G., **Jarbo, K.**, Gonzalez, C. (in preparation). Moments@Work: Sensitizing People to Diversity and Inclusion through Game Play.

Manke, K.J., **Jarbo, K.**, Turetsky, K.M., Purdie-Greenaway, V., Cohen, G.L. (in preparation). Stereotype Threat Perseverance.

Peer Reviewed Publications

Jarbo, K., Lobczowski, N. G., Richey, J. E., Morton, E., & Koedinger, K. (2021). Student-Teacher Relationships Drive Student Help-Seeking from Teachers for Math Learning Challenges. (Single Paper Presentation at EARLI 2021 Annual Meeting)

Richey, J. E., Lobczowski, N. G., **Jarbo, K.**, Morton, E., & Koedinger, K. (2021). Perceptions of Preparedness and Success Inform Undergraduates' Feelings of Belonging. (Single Paper Presentation at EARLI 2021 Annual Meeting)

Jarbo, K., Colaço, D., Verstynen, T.D. (2020). Contextual framing of loss impacts harm avoidance during spatial decisions. Advanced online publication. <https://doi.org/10.1002/bdm.2180>

Jarbo, K., Flemming, R., Verstynen, T. D. (2017). Sensory uncertainty impacts avoidance during spatial decisions. *Experimental Brain Research*. <https://doi.org/10.1007/s00221-017-5145-7>

Faraji, A. H., Abhinav, K., **Jarbo, K.**, Yeh, F., Shin, S. S., Pathak, S., Hirsch, B. E., Schneider, W., Fernandez-Miranda, J. C., Friedlander, R. M. (2015). Longitudinal evaluation of corticospinal tract in patients with surgically resected brainstem cavernous malformations using High Definition Fiber

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Tractography and diffusion connectometry analysis: preliminary experience. *Journal of Neurosurgery* 123(5): 1133-1144. <http://dx.doi.org/10.3171/2014.12.JNS142169>

*** Cover Image***

Presson, N., Krishnaswamy, D., Wagener, L., Bird, W., **Jarbo, K.**, Pathak, S., Puccio, A. M., Borasso, A., Benso, S., Okonkwo, D. O., Schneider, W. S. (2015). Quantifying White Matter Structural Integrity with High Definition Fiber Tracking in Traumatic Brain Injury. *Journal of Military Medicine*, 180(35): 109-121. <http://dx.doi.org/10.7205/MILMED-D-14-00413>

Jarbo, K. & Verstynen, T. (2015). Converging structural and functional connectivity of orbitofrontal, dorsolateral prefrontal, and posterior parietal cortex in the human striatum. *Journal of Neuroscience*, 35(9): 3865-3878. <http://doi:10.1523/JNEUROSCI.2636-14.2015>

Fernandez-Miranda, J. C., Pathak, S., Engh, J., **Jarbo, K.**, Verstynen, T., Wang, Y., Boada, F., Schneider, W., Friedlander, R. (2012). High-Definition Fiber Tractography of the Human Brain: Neuroanatomical Validation and Neurosurgical Applications. *Neurosurgery*, 71(2): 430-53. <http://dx.doi.org/10.1227/NEU.0b013e3182592faa>

Shin, S., Verstynen, T., Pathak, S., **Jarbo, K.**, Hricik, A., Maserati, M., Beers, S.R., Puccio, A. M., Okonkwo, D., Schneider, W. (2012). High Definition Fiber Tracking for Assessment of Neurological Deficit in a Case of Traumatic Brain Injury: Finding, Visualizing, and Interpreting Small Sites of TBI Damage. *Journal of Neurosurgery*, 116: 1062-9. <http://dx.doi.org/10.3171/2012.1.JNS111282>

Verstynen, T., Badre, D., **Jarbo, K.**, Schneider, W. (2012). Microstructural organizational patterns in the human corticostriatal system. *Journal of Neurophysiology*, 107(11): 2984-2995. <http://dx.doi.org/10.1152/jn.00995.2011>

Jarbo, K., Verstynen, T., Schneider, W. (2012). In vivo quantification of global connectivity of the human corpus callosum. *NeuroImage*, 59: 1988-96. <http://dx.doi.org/10.1016/j.neuroimage.2011.09.056> ***Cover image***

Verstynen, T., **Jarbo, K.**, Pathak, S., Schneider, W. (2011). In vivo assessment of microstructural topographies in the human corticospinal pathways. *Journal of Neurophysiology*, 105: 336-46. <http://dx.doi.org/10.1152/jn.00698.2010>

Honors, Awards, and Fellowships

2018-2021 President's Postdoctoral Fellowship, CMU
2018 Graduate Student Service Award, CMU

Kevin Jarbo, PhD

2016	Kavli Summer Institute in Cognitive Neuroscience Fellow, UC Davis & UCSB
2016	Summer Seminars in Neuroscience and Philosophy Fellow, Duke
2015-2016	Multimodal Neuroimaging Training Program Fellow, CNBC
2015	McClelland Prize for Outstanding Graduate Student Paper, CNBC
2014	NSF Graduate Research Fellowship Program, Honorable Mention
2013-2015	NIH Behavioral Brain (B ²) Research Training Fellow, CMU
2013	NSF Graduate Research Fellowship Program, Honorable Mention
2002-2006	Helen Faison Full Academic Scholarship, University of Pittsburgh

University & Professional Service Experience

Ongoing Service Commitments

2022-Present	Faculty Advisor, Here for You CMU (student organization)
2020-Present	Society for Judgment and Decision Making (SJDM) D&I Committee Member
2021-Present	Reimaging the Center for Neural Basis of Cognition (CNBC) Core Committee Member and Subcommittee Co-Lead, CNBC, CMU & University of Pittsburgh
2020-Present	Committee Member, Diversity & Inclusion Working Group, Social and Decision Sciences Dept., Dietrich College, CMU
2019-Present	Tartan Scholars Staff Mentor, Student Academic Success Center (SASC), CMU
2019-Present	DEI Strategic Plan Committee (SDS Representative), Dietrich College, CMU
2019-Present	Lead Program Coordinator, Black Futures Summit, Center for Student Diversity & Inclusion, CMU
2018-Present	University Lecture Series Committee, CMU

Completed Service

Apr 2022	Invited Speaker, Sankofa Black Staff and Faculty Resource Group, CMU
Spring 2022	Trainee, Center for Shared Prosperity Leadership and Facilitation Course, CMU
Dec 2021	Invited Facilitator, LEAP Program, Dietrich College, CMU
Dec 2021	Panelist, "Incorporating Equity & Justice into Research", Professional Development Seminar, Psychology, CMU
Nov 2021	Invited speaker, Graduate Students of Color Dinner Series, CSDI, CMU
Mar 2021	Panelist, "Black Student Mental Health @ CMU", panel discussion, SPIRIT Black Student Union, CMU
Feb 2021	Moderator, "Faculty Dialogue: The Past, Present, and Future of the Black Experience" panel discussion, Alumni Association, CMU

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- Feb 2021 Discussant, “Fireside Chat with Dr. Eddie Glaude”, Black Futures Summit Keynote event, CSDI, CMU
- Feb 2021 Moderator, “Conversation about the Black Experience”, SPIRIT Black Student Union, CMU
- Feb 2021 Panelist, “Strolling into 2021: CMU Divine 9” panel discussion, Undergraduate National Pan-Hellenic Council, CMU
- Oct 2020 Facilitator, “Real Talk: Grad School” Lunch and Learn, Psychology Dept., Dietrich College, CMU
- Oct 2020 Panelist, “Diversity in Pittsburgh”, Celebration of Diversity prospective student panel discussion, Office of Admissions, CSDI
- Sep 2020 Committee Member, Truman Scholarship Application Preparation, Office of the Vice Provost for Undergraduate Education, CMU
- Sep 2020 Moderator, “This Ain’t It: Re-envisioning Race Conversations on Campus”, CSDI, CMU
- July 2020 Lecturer, “Clearing the Air about Stereotype Threat” Lecture, Tartan Scholars Bootcamp, SASC, CMU
- 2020-2021 Committee Member, Diversity, Equity, & Inclusion Task Force, Tepper School of Business, CMU
- Feb 2020 Panelist, “The Future Is Authenticity”, Center for Multicultural Leadership and Engagement, Indiana University of Pennsylvania
- Jan 2020 Facilitator, “Black Masculinity 102” Workshop, CSDI, CMU
- Dec 2019 Facilitator, “Black Masculinity 101” Workshop, CSDI, CMU
- Nov 2019 Panelist, “Diversity in Neuroscience”, CMU Neuroscience Institute
- Summer 2019 Summer Academy for Math and Science (SAMS) Staff Mentor, CMU
- 2018-2021 Senior Research Fellow, Center for Student Diversity & Inclusion, CMU
- Apr 2018 Facilitator, “Race and Masculinity” Workshop Presentation, SPIRIT Black Student Union, CMU
- Feb 2018 Facilitator, “Race + Masculinity”, MOSAIC Conference on Intersectionality Workshop Presentation, Center for Student Diversity & Inclusion, CMU
- Feb 2018 Facilitator, “Engaging in Activism”, MLK Celebration Workshop Presentation, Center for Student Diversity & Inclusion, CMU
- 2017-2018 Graduate Student Intern, Center for Student Diversity & Inclusion, CMU
- 2017-2018 Graduate Student Advisory Council, Diversity & Inclusion Roundtable, CMU
- 2017-2018 Graduate Student Member, JED Steering Committee, CMU
- 2017-2018 Diversity & Inclusion General Education Committee, Dietrich College, CMU

Invited Talks

Kevin Jarbo, PhD

- 2021 ArtLab Vanderbilt Speaker Series, Invited Talk with Student Discussion
“Mindscapes PGH”
- 2021 Royal Holloway University of London, Invited Social Psychology Brown Bag Talk
“Clearing the Air: Understanding Stereotype Threat Effects on Student Decision-Making”
- 2020 Carnegie Mellon University, Psychology, Cognitive Neuroscience Methods Lecture
Instructor: Roberto Vargas
“Diffusion MRI and Using Neural Circuitry to Understand Cognitive Processes”
- 2019 Harvard Medical School, Laboratory for Brain Network Imaging and Modulation,
PI: Michael Fox, MD, PhD; Invited Presentation
“Studying White Matter Connectivity: Processes and Pitfalls”
- 2019 Indiana University, Program in Neuroscience, Invited Colloquium
“Using Neural Circuitry to Understand the Implementation of Cognitive Processes”
- 2018 Carnegie Mellon University, Social & Decision Sciences, Research Seminar
“Context Matters! How framing choice outcomes impacts loss avoidance and neural representations during risky decision-making”
- 2017 University of Pittsburgh (ENGCMP 200): Seminar in Composition
Instructor: Heather Kresge
“Ten simple rules for structuring papers”
- 2015 Center for the Neural Basis of Cognition Annual Retreat McClelland Prize Talk
“Converging frontal and parietal pathways in the human striatum”
- 2015 Carnegie Mellon University (03-763): Advanced Systems Neuroscience
Instructor: Dr. DJ Brasier
“Converging frontal and parietal pathways in the human striatum”

Conference Presentations

Colaço, D., & Jarbo, K. (2021), Predicting Moral Judgments from Moral Dispositions. Abst. Society for Philosophy and Psychology (SPP) Annual Meeting

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Lobczowski, N. G., **Jarbo, K.**, Richey, J. E., Morton, E., & Koedinger, K. (2021). A narrative inquiry of critical moments in students' paths to math success. Roundtable presentation. American Education Research Association (AERA) 2021 Annual Meeting

Jarbo, K., Manke, K., Schenck, B., Kaufman, G., Babcock, L. "The Impact of Stereotype Threat on Academic Help-Seeking and Procrastination". Abst. Society for Personality and Social Psychology 2020

Jarbo, K. & Colaço, D. "Morality under Uncertainty: The impact of moral framing on spatial decisions". Abst. Summer Seminars in Neuroscience and Philosophy 2017

Jarbo, K. & Verstynen, T. "Neural substrates of risky spatial decision making under perceptual uncertainty". Abst. Society for Neuroscience 2016

Jarbo, K., Flemming, R., Verstynen, T. "Highway from the Danger Zone: Interactions between uncertainty and cost in spatial estimation". Abst. Society for Neuroscience 2014

Jarbo, K. & Verstynen, T. "Convergence of posterior parietal, orbitofrontal, and lateral prefrontal inputs into the human striatum". Abst. Cognitive Neuroscience Society 2014, CNBC 20th Anniversary, Pittsburgh MR Imaging Retreat 2014

Schneider, W., Okonkwo, D. O., Presson, N., **Jarbo, K.**, Puccio, A. M., Borasso, A., Beers, S., Morrow, L., Pathak, S. "High Definition Fiber Tracking of Blast mTBI: Making the Invisible Wounds of War Visible with Patient-Targeted Treatment". Abst. Military Health System Research Symposium 2014

Schneider, W., Okonkwo, D. O., **Jarbo, K.**, Wagener, L., Bird, W., Presson, N., Braun, E., Chmura, J. "Training and Support Programs to Learn, Implement, and Support HDFT Analysis and How to Join the Group of Intake Sites". Abst. Military Health System Research Symposium 2014

Jarbo, K., Verstynen, T., Schneider, W. "High definition fiber tracking of corpus callosum fiber pathways". Abst. Cognitive Neuroscience Society 2011

Pathak, S., Verstynen, T., **Jarbo, K.**, Schneider W., Fernandez-Miranda, J. C. "High definition fiber tracking in neurosurgery & traumatic brain injury". Abst. Cognitive Neuroscience Society 2011

Phillips, A., **Jarbo, K.**, Tokowicz, N. "Individual differences in adult second language vocabulary learning". Abst. Eighth International Symposium on Bilingualism 2011

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Schneider, W., **Jarbo, K.**, Shin, S., Verstynen, T., Pathak, S., Fernandez-Miranda, J. C., Okonkwo, D., Boada, F. “Clinical Quality Fiber Tracking and Connectome Mapping in Neurosurgery & Traumatic Brain Injury”. Abst. Human Brain Mapping 2011

Verstynen, T., **Jarbo, K.**, Phillips, J., Pathak, S., Schneider, W. “High definition fiber tracking of corticostriatal projection subfields in vivo”. Abst. Cognitive Neuroscience Society 2011

Tokowicz, N., & **Jarbo, K.** “The generation effect applied to second language vocabulary learning”. Abst. Fiftieth Annual Meeting of the Psychonomic Society 2009

Moss, J., Schunn, C., Van Lehn, K., Schneider, W., McNamara, D. S., & **Jarbo, K.** “They Were Trained, But They Did Not All Learn: Individual Differences in Uptake of Learning Strategy Training”. In B. C. Love, K. McRae, & V. M. Sloutsky (Eds.), Proceedings of the Thirtieth Annual Conference of the Cognitive Science Society (p.1389). Cognitive Science Society 2008

Teaching Experience

- 2022 Carnegie Mellon University (88-302 and 88-602): Behavioral Decision Making
Duties: Instructor, lecture, grading, office hours, supervising graduate TA
- 2021 Carnegie Mellon University (66-131): Grand Challenge First-Year Seminar -
We're Not Beyond Race: Race & Identity in America
Duties: Co-Instructor, course design, lecture, grading, office hours

- 2016 Carnegie Mellon University (08-241): Social Psychology
Duties: Teaching assistant, lectured, grading, and office hours

- 2016 Carnegie Mellon University (08-211): Cognitive Psychology
Duties: Teaching assistant, lectured, grading, and office hours

- 2015 Carnegie Mellon University (08-102): Introduction to Psychology
Duties: Teaching assistant, led recitation sections, lectured, grading, and office hours

- 2013 University of Pittsburgh (PSY 2471): Topics in Psychology: Brain Connectivity Mapping
Duties: Guest lecturer, guided laboratory tutorials, lesson planning, and grading

- 2012 University of Pittsburgh (PSY 2471): Topics in Psychology: Mapping Brain Connectivity
Duties: Guest lecturer, guided laboratory tutorials, lesson planning, and grading

Kevin Jarbo, PhD

Research-Related Media Publications, Appearances, and Artwork

“Is our personal bias detrimental to decision making?” (2021). Interview for *The Mind Behind It* podcast. <https://podcasts.apple.com/au/podcast/e8s2-asst-prof-kevin-jarbo-is-our-personal-bias-detrimental/id1550495736?i=1000539131227>

“Black Academics @ CMU”. (2021). Interview for TEDxCMU Salon. https://www.youtube.com/watch?v=dkp4HKzX3pU&ab_channel=TEDxCMU

“Brain Connectivity at the Intersections”. (2019). Digital artwork submission to Mindscapes PGH curated by Emily Parker. <https://mindscapespgh.com/>

“Agency, Free Will, and Determinism: A Neurophilosophical Perspective”. (2018). Episode on “The Luminous Brain” podcast with Dr. Michael Ferguson. https://www.listennotes.com/podcasts/the-luminous-brain/003-agency-free-will-IH0t5_qkliw/

“Reverse Engineering the Brain: DTI and the Wiring Within”. (2018). Episode on “The Luminous Brain” podcast with Dr. Michael Ferguson. <https://www.listennotes.com/podcasts/the-luminous-brain/004-reverse-engineering-the-50aHUYdphK6/>

“#BlackScholarsMatter: Culture Change & Academia”. (2018). Episode on “The Luminous Brain” podcast with Dr. Michael Ferguson. <https://www.listennotes.com/podcasts/the-luminous-brain/005-black-scholars-matter-9hcgGKxY0jF/>

“Dissecting Disease”. (2017). Digital artwork submission to *Interstellate Volume 2* curated by Dr. Caitlin Vander Weele. https://pub.lucidpress.com/Interstellate_Volume2/#gRLnEhkc3TJ

“Self Reflected”. (2016). Permanent installation in collaboration with Dr. Greg Dunn and Dr. Brian Edwards in the “Your Brain” exhibit at the Franklin Institution, Philadelphia, PA. <https://www.fi.edu/selfreflected>

“See Why Kevin Loves Medical Research”. (2015). Lab TV Interview. https://www.youtube.com/watch?v=s0Q5KKY_nS4

“On the Spectrum”. (2014). Digital artwork submission to the “Neurons and Other Memories” exhibition curated by Patricia Maurides for the Miller Art Gallery at CMU. <http://millergallery.cfa.cmu.edu/exhibitions/neuronsandmemories/index.php>

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“Brain Terrain”. (2013). Feature article for *Pitt Magazine* Winter issue.

“Missing Links”. (2012). Cover story and artwork for *Pitt Med Magazine* Fall issue.

https://www.pittmed.health.pitt.edu/Fall_2012/Fall_2012.pdf

Current Professional Affiliations

Society for Judgment and Decision Making

Cognitive Science Society

Society for Personality and Social Psychology American Educational Research Assoc.

Ad-Hoc Reviewer

Neuropsychologia

Movement Disorders

Philosophy of Science

Cerebral Cortex