

JOSEPH W. KABLE

Department of Psychology, University of Pennsylvania
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EMPLOYMENT

Baird Term Professor of Psychology, University of Pennsylvania, 2018-present.

Professor of Marketing (secondary appointment), University of Pennsylvania, 2018-present.

Baird Term Associate Professor of Psychology, University of Pennsylvania, 2015-2018.

Associate Professor of Marketing (secondary appointment), University of Pennsylvania, 2017-2018.

Baird Term Assistant Professor of Psychology, University of Pennsylvania, 2012-2015.

Assistant Professor, Department of Psychology, University of Pennsylvania, 2008-2012.

Postdoctoral Fellow, Center for Neural Science, New York University, 2004-2008. Mentor: Paul W. Glimcher.

EDUCATION

Ph.D., Neuroscience, University of Pennsylvania, 1999-2004.

Dissertation: "Moving thoughts: Conceptual representations of action in lateral occipitotemporal cortex."

Dissertation Advisor: Anjan Chatterjee

B.S., Chemistry, *with highest honors*, Emory University, 1992-1996.

Honors Advisor: Joseph B. Justice.

GRANTS

- NSF, "Summer research experiences in mind and brain studies." Principal Investigator (MPI: F. Schwarz & J. Kable). (\$366,620 total direct costs). 2021-2024.
- AE Foundation, "Discovering Replicable and Robust Activity Differences Between High and Low Discounters," Principal Investigator. (\$112,148 total direct costs). 2021.
- Facebook Research, "Quantifying persistent effects of misinformation via neural signals," Principal Investigator. (\$90,250 total direct costs). 2020-2021.

- AE Foundation, “Reducing delay discounting and selfishness with excitatory transcranial magnetic stimulation of the temporoparietal junction,” Principal Investigator. (\$382,693 total direct costs). 2019-2020.
- NIH/NIA, RF1 AG058065. “Learning and decision-making in healthy aging and preclinical Alzheimer’s Disease.” Principal Investigator (MPI: J. Kable & D. Wolk). (\$1,250,000 total direct costs). 2017-2022.
- NIH/NIMH, T32 MH017168. “Training Program in Behavioral and Cognitive Neuroscience.” Principal Investigator (since 2017). (\$226,370 annual direct costs). 1984-2019.
- NSF, 1631550. “A mechanistic model of cognitive control.” Principal Investigator (MPI: D. Bassett, J. Kable, T. Satterthwaite, F. Pasqualetti). (\$338,000 total direct costs). 2016-2019.
- Khodadad Family Gift, “Excessive selfishness: an integrated neural, genetic and behavioral approach,” Principal Investigator (MPI: E. Brodtkin & J. Kable). (\$362,149 total direct costs). 2016-2018.
- NSF, 1533623. “The role of noise in mental exploration for learning.” Principal Investigator (MPI: J. Gold & J. Kable). (\$625,000 total direct costs). 2015-2018.
- NIH/NCI, R01 CA170297. “Retraining neurocognitive mechanisms of cancer risk behavior.” Principal Investigator (MPI: J. Kable & C. Lerman). (\$1,226,870 total direct costs). 2012-2017.
- NIH/NIMH, R01 MH098899. “Individual, age-dependent differences in ACC-mediated adaptive decision making.” Principal Investigator (MPI: J. Gold & J. Kable). (\$1,284,632 total direct costs). 2012-2016.
- NIH/NIDA, R01 DA029149. “Neural mechanisms underlying changes in preference.” Principal Investigator. (\$980,343 total direct costs). 2010-2016.
- NIH/NIA, Pilot project funded by University of Pennsylvania Alzheimer’s Disease Core Center (ADCC). “Effects of episodic memory on economic decision-making in older adults with and without biological markers of preclinical Alzheimer’s Disease.” Principal Investigator. (\$48,330 total project costs). 2017-2018.
- Pension Research Council/TIAA Institute. “Interactions between episodic memory and intertemporal choices in older adults.” Principal Investigator. (MPI: J. Kable & D. Wolk, \$60,000 total project costs). 2016-2018.
- Pilot project funded by the University of Pennsylvania Comprehensive Neuroscience Center. “Common and Divergent Mechanisms of Anhedonia Across Psychiatric Disorders.” Principal Investigator. (MPI: J. Kable & D. Wolf, \$43,500 total project costs). 2011-2012.
- NIH, Pilot project funded by TRIO (Population Aging Research Center, NIA P30 AG-012836; the Boettner Center for Pensions and Retirement Security; and the Population Studies Center, NICHD R24 HD-044964). “Neural Substrates of Anticipatory Time Perception and Time Discounting.” Principal Investigator. (MPI: J. Kable & G. Zauberman, \$19,966 total project costs). 2011-2012.
- NIH/NIA, Pilot project funded by P30 for Population Aging Research Center (PI: B. J. Soldo). “Neuroeconomics of intergenerational sacrifice.” Principal Investigator. (MPI: L. Chao & J. Kable, \$119,000 total project costs). 2009-2011.
- NIH/NIMH, National Research Service Award, F32 MH75544. “Neural mechanisms of temporal discounting in humans.” Principal Investigator. 2005-2007.
- NIH/NIMH, R01 MH113565. “Adolescent neurodevelopment and impaired intrinsic

- motivation in psychosis risk.” Co-investigator. (PI: D. Wolf). 2018-2022.
- NIH/NIMH, R01 MH101111. “Quantitative behavioral and imaging phenotypes of amotivation in schizophrenia.” Co-investigator. (PI: D. Wolf). 2013-2017.
- NIH/NIDA, R21 DA032022. “Imaging risk taking in smokers.” Co-Investigator. (PI: H. Rao). 2012-2014.
- NIH/NIDA, R03 DA027098. “Imaging individual differences in risk taking.” Co-Investigator. (PI: H. Rao). 2011-2012.

HONORS AND AWARDS

- Fellow, Association for Psychological Science, 2019
- Early Career Award, Society for Neuroeconomics, 2014
- Best Talk, Society for Neuroeconomics 10th Annual Meeting, 2013
- Ruth L. Kirschstein National Research Service Award Individual Fellowship, 2005-2007.
- National Science Foundation Graduate Fellowship, 2000-2003.
- Dolores Zohrab Liebmann Graduate Fellowship (declined), 2000-2003.
- Lucius Lamar McMullan Award (\$20,000 grant given to outstanding Emory senior based on citizenship, leadership and service), 1996.
- Emory Scholar, Charles and Anne Duncan Scholarship (full tuition scholarship), 1992-1996.
- Phi Beta Kappa, 1994.

PUBLICATIONS

Peer-Reviewed Publications:

Note: though author ordering conventions can vary across the fields in which I work, usually the junior investigator who led the investigation is first author, the senior investigator who directed the investigation is last author, and other authors who made contributions to the manuscript are listed in the middle positions.

* = JWK trainee

74. Aydogan, G., Daviet, R., Karlsson Linnér, R., Hare, T. A., **Kable, J. W.**, Kranzler, H. R., Wetherill, R. R., Ruff, C. C., Koellinger, P. D., Nave, G. (in press) Genetic underpinnings of risky behavior relate to altered neuroanatomy. *Nature Human Behaviour*.
73. Parthasarathi, T.*, Lee, S.*, and **Kable, J. W.** (in press) The ventral and dorsal default mode networks are dissociably modulated by the vividness and valence of imagined events. *Journal of Neuroscience*.
72. Sydnor, V. J., Larsen, B., Kohler, C., Crow, A. J. D., Rush, S. L., Calkins, M. E., Gur, R. C., Gur, R. E., Ruparel, K., **Kable, J. W.**, Young, J. F., Elliott, M. A., Shinohara, R. T., Nanga, R. P. R., Reddy, R., Wolf, D. H., Satterthwaite, T. D., and Roalf, D. R. (in press). Diminished Reward Responsiveness is Associated with Lower Reward Network GluCEST: An Ultra-High Field Glutamate Imaging Study. *Molecular Psychiatry*.

71. Workman, C. I., Humphries, S., Hartung, F., Aguirre, G. K., **Kable, J. W.**, and Chatterjee, A. (in press) Morality is in the eye of the beholder: Unpacking the neurocognitive basis of the “anomalous-is-bad” stereotype. *Annals of the New York Academy of Sciences*.
70. Alabi, O., Robinson, M., Fortunato, M., **Kable, J. W.**, Fuccillo, M. V. (2020) Disruption of *Nrxn1 α* within excitatory forebrain circuits drives value-based dysfunction. *eLife*, **9**: e54838. doi: 10.7554/eLife.54838.
69. Botvinick-Nezer, R., Holzmeister, F., Camerer, C. F., Dreber, A., Huber, J., Johannesson, M., Kirchler, M., Iwanir, R., Mumford, J. A., ..., **Kable, J. W.**, ..., Lee, S.*, ..., Nichols, T. E., Poldrack, R. A., Schonberg, T. (2020) Variability in the analysis of a single neuroimaging dataset by many teams. *Nature*. **582**: 84–88. doi: 10.1038/s41586-020-2314-9.
68. Filipowicz, A. L. S.*, Glaze, C. M.*, Tavoni, G., **Kable, J. W.**, Gold, J. I. (2020) Pupil diameter encodes the idiosyncratic, cognitive complexity of belief updating. *eLife*. **9**: e57872. doi: 10.7554/eLife.57872.
67. Hupen, P., Wagels, L., Weidler, C., Schneider, F., **Kable, J. W.**, and Habel, U. (2020) Altered Psychophysiological Correlates of Risk-taking in Borderline Personality Disorder. *Psychophysiology*. **57**: e13540. doi: 10.1111/psyp.13540.
66. Kao, C-H.*, Khambati, A. N., Bassett, D. S., Nassar, M. N., McGuire, J. T., Gold, J. I., and **Kable, J. W.** (2020) Functional brain network reconfiguration during learning in a dynamic environment. *Nature Communications*. **11**: 1682. doi: 10.1038/s41467-020-15442-2.
65. Kao, C.-H.*, Lee, S. *, Gold, J. I., **Kable, J. W.** (2020) Neural encoding of task-dependent errors during adaptive learning. *eLife*. **9**: e58809. doi: 10.7554/eLife.58809.
64. Kiesow, H., Dunbar, R. I. M., **Kable, J. W.**, Kalenscher, T., Vogeley, K., Schilbach, L., Wiecki, T., Bzdok, D. (2020) 10,000 social brains: sex differentiation in human brain anatomy. *Science Advances*. **6**: eaaz1170. doi: 10.1126/sciadv.aaz1170.
63. Lee, S. *, Glaze, C. M. *, Bradlow, E. T., and **Kable, J. W.** (2020) Flexible utility function approximation via cubic Bezier splines. *Psychometrika*. **85**: 716–737. doi: 10.1007/s11336-020-09723-4.
62. Lee, S. *, Gold, J. I., and **Kable, J. W.** (2020) The human as delta-rule learner. *Decision*, **7**: 55-66. doi: 10.1037/dec0000112.
61. Lempert, K. M. *, MacNear, K. A. *, Wolk, D. A., and **Kable, J. W.** (2020) Links between autobiographical memory richness and temporal discounting in older adults. *Scientific Reports*. **10**: 6431. doi: 10.1038/s41598-020-63373-1.
60. Lempert, K. M. *, Mechanic-Hamilton, D. J., Xie, L., Wisse, L. E. M., de Flores, R., Wang, J., Das, S. R., Yushkevich, P. A., Wolk, D. A., and **Kable, J. W.** (2020) Neural and

- behavioral correlates of declarative memory are associated with temporal discounting in older adults. *Neuropsychologia*. **146**: 107549. doi: 10.1016/j.neuropsychologia.2020.107549.
59. Mukherjee, D.*, Filipowicz, A. L. S.*, Vo, K.*, Satterthwaite, T. S., and **Kable, J. W.** (2020) Reward and punishment reversal learning in major depressive disorder. *Journal of Abnormal Psychology*. **8**: 810–823. doi: 10.1037/abn0000641.
58. Mukherjee, D.*, Lee, S.*, Kazinka, R.*, and **Kable, J. W.** (2020) Multiple facets of value-based decision making in Major Depressive Disorder. *Scientific Reports*, **10**: 3415. doi: 10.1038/s41598-020-60230-z.
57. Yu, L. Q.*, Kan, I. P., and **Kable, J. W.** (2020). Beyond a rod through the skull: a systematic review of lesion studies of the human ventromedial frontal lobe. *Cognitive Neuropsychology*. **37**: 97–141. doi: 10.1080/02643294.2019.1690981.
56. Hupen, P., Habel, U., Schneider, F., **Kable, J. W.**, and Wagels, L. (2019) Impulsivity moderates skin conductance and impulsivity on a modified version of the balloon analogue risk task. *Frontiers in Decision Neuroscience*, **13**: 345. doi: 10.3389/fnins.2019.00345. PMID: PMC6476343.
55. Li, Y. S., Nassar, M. N.*, **Kable, J. W.**, and Gold, J. I. (2019) Differential, context-insensitive encoding of spatial and feedback information in single anterior and posterior cingulate neurons during adaptive decision-making. *Journal of Neuroscience*, **39**: 6668–6683. doi: 10.1523/JNEUROSCI.0159-19.2019. PMID: PMC6703890.
54. Nassar, M. N.*, McGuire, J. T.*, Ritz, H., and **Kable, J. W.** (2019) Dissociable forms of uncertainty-driven representational change across the human brain. *Journal of Neuroscience*, **39**: 1688–1698. doi: 10.1523/JNEUROSCI.1713-18.2018. PMID: PMC6391562.
53. Nave, G., Jung, W. H.*, **Kable, J. W.**, and Koellinger, P. (2019) Are bigger brains smarter? Evidence from a large-scale pre-registered study. *Psychological Science*, **30**: 43–54. doi: 10.1177/0956797618808470.
52. Glaze, C. M.*, Filipowicz, A. L. S.*, **Kable, J. W.**, Balasubramanian, V., and Gold, J. I. (2018) A bias-variance trade-off governs individual differences in on-line learning in an unpredictable environment. *Nature Human Behaviour*, **2**: 213–224. doi: 10.1038/s41562-018-0297-4.
51. Jung, W. H.*, Lee, S.*, Lerman, C., and **Kable, J. W.** (2018) Amygdala functional and structural connectivity predicts individual risk tolerance. *Neuron*, **98**: 394–404. doi: 10.1016/j.neuron.2018.03.019. PMID: PMC5910234.
50. Lee, S.* and **Kable, J. W.** (2018) Simple but robust improvement in multivoxel pattern classification. *PLoS One*, **13**: e0207083. doi: 10.1371/journal.pone.0207083. PMID: PMC6221349.

49. Lempert, K. M.*, Steinglass, J. E., Pinto, A., **Kable, J. W.**, and Simpson, H. B. (2018) Can delay discounting deliver on the promise of the RDoC? *Psychological Medicine*. doi: 10.1017/S0033291718001770.
48. Pehlivanova, M.*, Wolf, D. H., Sotiras, A., Kaczkurkin, A., Moore, T. M., Ciric, R., Cook, P. A., Garcia de La Garza, A. Rosen, A., Ruparel, K., Sharma, A., Shinohara, R. T., Roalf, D. R., Gur, R. C., Davatzikos, C., Gur, R. E., **Kable, J. W.**, and Satterthwaite, T. D. (JWK and TDS co-last authors). (2018) Diminished cortical thickness is associated with impulsive choice in adolescence. *Journal of Neuroscience*. doi: 10.1523/JNEUROSCI.2200-17.2018. PMID: PMC5858592.
47. To, C., Falcone, M., Loughhead, J., Logue-Chamberlain, E., Hamilton, R., **Kable, J. W.**, Lerman, C., and Ashare, R. L. (2018) Does stimulating brain regions associated with inhibitory control have paradoxical effects on eating behavior? *Appetite*, **131**: 28-35. doi: 10.1016/j.appet.2018.08.032. PMID: PMC6197906.
46. Fang, Z., Jung, W. H.*, Korczykowski, M. Luo, L., Prehn, K., Xu, S., Detre, J. A., **Kable, J. W.**, Roberston, D., and Rao, H. (2017). Post-conventional moral reasoning is associated with increased ventral striatal activity at rest and during task. *Scientific Reports*, **7**: 7105. doi: 10.1038/s41598-017-07115-w. PMID: PMC5541100.
45. **Kable, J. W.**, Caulfield, M. K.*, Falcone, M., McConnell, M.*, Bernardo, L., Parthasarathi, T.*, Cooper, N.*, Ashare, R., Audrain-McGovern, J., Hornik, R., Diefenback, P., Lee, F., and Lerman, C. (2017). No effect of commercial cognitive training on brain activity, choice behavior or cognitive performance. *Journal of Neuroscience*, **37**: 7390-7402. doi: 10.1523/JNEUROSCI.2832-16.2017. PMID: PMC5546110.
44. Miglin, R., **Kable, J. W.**, Bowers, M. E., and Ashare, R. L. (2017). Withdrawal-related changes in delay discounting predict short-term smoking abstinence. *Nicotine and Tobacco Research*, **19**: 694-702. doi: 10.1093/ntr/ntw246. PMID: PMC5423100.
43. Lempert, K. M.*, McGuire, J. T.*, Hazeltine, D. B., Phelps, E. A., and **Kable, J. W.** (2017). The effects of acute stress on the calibration of persistence. *Neurobiology of Stress*, **8**: 1-9. doi: 10.1016/j.ynstr.2017.11.001. PMID: PMC5709305.
42. Parthasarathi, T.*, McConnell, M.*, Luery, J.*, and **Kable, J. W.** (2017). The vivid present: visualization abilities are associated with steep discounting of future rewards. *Frontiers in Psychology*, **8**: 289. doi: 10.3389/fpsyg.2017.00289. PMID: PMC5337487.
41. Sharma, A., Wolf, D. H., Ciric, R., **Kable, J. W.**, Moore, T. M., Vandekar, L., Katchmar, N., Daldal, A., Ruparel, K., Davatzikos, C., Elliott, M. A., Calkins, M. E., Shinohara, R. T., Bassett, D. S., Satterthwaite, T. D. (2017). Common dimensional reward deficits across mood and psychotic disorders: A connectome-wide association study. *American Journal of Psychiatry*, **174**: 657-666. doi: 10.1176/appi.ajp.2016.16070774. PMID: PMC5495611.

40. Yu, L. Q.*, Lee, S.*, Katchmar, N., Satterthwaite, T. D., **Kable, J. W.**, and Wolf, D. H. (2017) Steeper discounting of delayed rewards in schizophrenia. *Psychiatry Research*, **252**, 303-309. doi: 10.1016/j.psychres.2017.02.062. PMID: PMC5438888.
39. Halfmann, K., Hedgcock, W., **Kable, J. W.**, and Denburg, N. (2016). Individual differences in the neural representation of subjective value among older adults. *Social, Cognitive and Affective Neuroscience*, **11**: 1111-20. doi: 10.1093/scan/nsv078. PMID: PMC4927033.
38. Hershenberg, R., Satterthwaite, T. D., Daldal, A., Katchmar, N., Moore, T. M., **Kable, J. W.**, and Wolf, D. H. (2016). Diminished effort on a progressive ratio task in both unipolar and bipolar depression. *Journal of Affective Disorders*, **196**: 97-100. doi: 10.1016/j.jad.2016.02.003. PMID: PMC4808384.
37. Jung, W. H.*, Prehn, K., Fang, Z., Korczykowski, M., **Kable, J. W.**, Rao, H., and Robertson, D. C. (2016). Moral competence and brain connectivity: a resting-state fMRI study. *Neuroimage*, **141**: 408-415. doi: 10.1016/j.neuroimage.2016.07.045. PMID: PMC5028200.
36. Krastev, S., McGuire, J. T.*, McNeney, D., **Kable, J. W.**, Stolle, D., Gidengil, E., and Fellows, L. K. (2016). Do political and economic choices rely on common neural substrates? A review and fMRI meta-analysis. *Frontiers in Psychology*. **7**:264. doi: 10.3389/fpsyg.2016.00264. PMID: PMC4766282.
35. Sharma, A., Satterthwaite, T. D., Vandekar, L., Katchmar, N., Daldal, A., Ruparel, K., Elliott, M. A., Baldassano, C., Thase, M. E., Gur, R. E., **Kable, J. W.**, and Wolf, D. H. (2016). Divergent relationship of depression severity to social reward responses among patients with bipolar versus unipolar depression. *Psychiatry Research: Neuroimaging*, **254**: 18-25. doi: 10.1016/j.psychresns.2016.06.003. PMID: PMC4992640.
34. Siegler, J. E., **Kable, J. W.**, and Chatterjee, A. (2016). Resident decision-making: Opioids in the outpatient setting. *Journal of Graduate Medical Education*, **8**: 138-141. doi: 10.4300/JGME-D-15-00186.1. PMID: PMC4857523.
33. Ashare, R. L. and **Kable, J. W.** (2015). Sex differences in time perception during smoking abstinence. *Nicotine and Tobacco Research*, **17**: 449-454. doi: 10.1093/ntr/ntu260. PMID: PMC4432399.
32. Glaze, C.*, **Kable, J. W.**, and Gold, J. I. (2015). Normative evidence accumulation in an unpredictable environment. *eLife*, **4**: e08825. doi: 10.7554/eLife.08825. PMID: PMC4584511.
31. **Kable, J. W.**, and Levy, I. (2015). Neural markers of individual differences in decision making. *Current Opinion in Behavioral Sciences*, **5**: 100-107. doi: 10.1016/j.cobeha.2015.08.004. PMID: PMC5389668.

30. McGuire, J. T.* and **Kable, J. W.** (2015). Medial prefrontal cortical activity reflects dynamic reassessment of subjective value during voluntary persistence. *Nature Neuroscience*, **18**: 760-766. doi: 10.1038/nn.3994. PMCID: PMC4437670.
29. Pegors, T., **Kable, J. W.**, Chatterjee, A., and Epstein, R. A. (2015). Common and unique representations in prefrontal cortex for face and place attractiveness. *Journal of Cognitive Neuroscience*, **27**: 959-973. doi: 10.1162/jocn_a_00777. PMCID: PMC4681394.
28. Satterthwaite, T. D., **Kable, J. W.**, Vandekar, L., Katchmar, N., Bassett, D. S., Baldassano, C. F., Ruparel, K., Elliott, M. A., Sheline, Y. I., Gur, R. C., Gur, R. E., Davatzikos, C., Leibenluft, E., Thase, M. E., and Wolf, D. (2015). Common and dissociable dysfunction of the value system in bipolar and unipolar depression. *Neuropsychopharmacology*, **40**: 2258-2268. doi: 10.1038/npp.2015.75. PMCID: PMC4613620.
27. Cox, K.* and **Kable, J. W.** (2014). BOLD subjective value signals exhibit robust range adaptation. *Journal of Neuroscience*, **34**: 16533-16543. doi: 10.1523/JNEUROSCI.3927-14.2014. PMCID: PMC4252558.
26. Gilaie-Dotan, S., Tymula, A., Cooper, N.*, **Kable, J. W.**, Glimcher, P. W., Levy, I. (2014). Neuroanatomy predicts individual risk attitudes. *Journal of Neuroscience*, **34**: 12394-12401. doi: 10.1523/JNEUROSCI.1600-14.2014. PMCID: PMC4160774.
25. McGuire, J. T.*, Nassar, M. R.*, Gold, J. I. and **Kable, J. W.** (2014). Functionally dissociable influences on learning rate in a dynamic environment. *Neuron*, **84**: 870-881. doi: 10.1016/j.neuron.2014.10.013. PMCID: PMC4437663.
24. Mukherjee, D.* and **Kable, J. W.** (2014). Decision-making impairment in mental illness: a meta-analysis. *Clinical Psychological Science*, **2**: 767-782. doi: 10.1177/2167702614531580.
23. Smidts, A., Hsu, M., Sanfey, A. G., Boksem, M. A. S., Epstein, R. B., Huettel, S. A., **Kable, J. W.**, Karmarkar, U., Kitayama, S., Knutson, B., Liberzon, I., Lohrenz, T., Stallen, M., Yoon, C. (2014). Advancing consumer neuroscience. *Marketing Letters*, **25**: 257-267. doi: 10.1007/s11002-014-9306-1.
22. Vo, K.*, Rutledge, R., Chatterjee, A., and **Kable, J. W.** (2014). Striatum is necessary for stimulus-value but not action-value learning in humans. *Brain*, **137**: 3129-3135. doi: 10.1093/brain/awu277. PMCID: PMC4240290.
21. Bartra, O.*, McGuire, J. T.*, and **Kable, J.W.** (2013). The valuation system: A coordinate-based meta-analysis of BOLD fMRI experiments examining neural correlates of subjective value. *NeuroImage*, **76**: 412-427. doi:10.1016/j.neuroimage.2013.02.063. PMCID: PMC3756836.
20. Cooper, N. S.*, **Kable, J. W.**, Kim, K., and Zauberman, G. (2013). Brain activity in valuation regions while thinking about the future predicts individual discount rates. *Journal*

- of Neuroscience*, **33**: 13150-13156. doi: 10.1523/JNEUROSCI.0400-13.2013. PMCID: PMC3735887.
19. Kurzban, R., Duckworth, A., **Kable, J. W.**, and Myers, J. (2013). An opportunity cost model of subjective effort and task performance. *Behavioral and Brain Sciences*, **36**: 661-679. doi: 10.1017/S0140525X12003196. PMCID: PMC3856320.
 18. McGuire, J. T.*, and **Kable, J.W.** (2013). Rational temporal predictions can underlie apparent failures to delay gratification. *Psychological Review*, **120**: 395-410. doi:10.1037/a0031910. PMCID: PMC3773987.
 17. Kim, B. E*, Seligman, D.*, and **Kable, J. W.** (2012). Preference reversals in decision-making under risk are accompanied by changes in attention to different attributes. *Frontiers in Neuroscience*, **6**:109. doi: 10.3389/fnins.2012.00109. PMCID: PMC3400145.
 16. McGuire, J. T.*, and **Kable, J.W.** (2012). Decision makers calibrate behavioral persistence on the basis of time-interval experience. *Cognition*, **124**: 216-226. doi: 10.1016/j.cognition.2012.03.008. PMCID: PMC3503451.
 15. Senecal, N.*, Wang, T.*, Thompson, E.*, and **Kable, J. W.** (2012). Normative arguments from experts and peers reduce delay discounting. *Judgment and Decision Making*, **7**: 566-589. PMCID: PMC3626281.
 14. Yoon, C., Gonzalez, R., Bechara, A., Berns, G.S., Dagher, A., Dube, L., Huettel, S., **Kable, J.W.**, Liberzon, I., Plassmann, H., Smidts, A., and Spence, C. (2012). Decision neuroscience and consumer decision making. *Marketing Letters*, **23**: 473-485. doi: 10.1007/s11002-012-9188-z.
 13. Camille, N., Griffiths, C. A., Vo, K.*, Fellows, L. K., **Kable, J. W.** (2011). Ventromedial frontal lobe damage disrupts value maximization in humans. *Journal of Neuroscience*, **31**: 7527-7532. doi: 10.1523/JNEUROSCI.6527-10.2011. PMCID: PMC3122333.
 12. **Kable, J. W.** (2011). The cognitive neuroscience toolkit for the neuroeconomist: A functional overview. *Journal of Neuroscience, Psychology and Economics*, **4**: 63-84. doi: 10.1037/a0023555. PMCID: PMC3142554.
 11. **Kable, J. W.**, and Glimcher, P. W. (2010). An “as soon as possible” effect in human inter-temporal decision making: Behavioral evidence and neural mechanisms. *Journal of Neurophysiology*, **103**: 2513-2531. doi: 10.1152/jn.00177.2009. PMCID: PMC2867580.
 10. **Kable, J.W.**, and Glimcher, P.W. (2009). The neurobiology of decision: Consensus and controversy. *Neuron* **63**, 733-745. doi: 10.1016/j.neuron.2009.09.003. PMCID: PMC2765926.

9. Glimcher, P. W., **Kable, J. W.**, and Louie, K. (2007). Neuroeconomic studies of impulsivity: Now or just as soon as possible? *American Economic Review*, **97**, 142-147. doi: 10.1257/aer.97.2.142.
8. **Kable, J. W.**, and Glimcher, P. W. (2007). The neural correlates of subjective value during intertemporal choice. *Nature Neuroscience*, **10**, 1625-1633. doi:10.1038/nn2007. PMID: PMC2845395.
7. **Kable, J. W.** and Chatterjee, A. (2006). Specificity of action representations in the lateral occipitotemporal cortex. *Journal of Cognitive Neuroscience*, **18**, 1498-1517. doi:10.1162/jocn.2006.18.9.1498.
6. Kan, I. P., **Kable, J. W.**, Van Scoyoc, A., Chatterjee, A., and Thompson-Schill, S. (2006). Fractionating the left frontal response to tools: Dissociable effects of motor experience and lexical competition. *Journal of Cognitive Neuroscience*, **18**, 267-77. doi: 10.1162/jocn.2006.18.2.267.
5. **Kable, J. W.**, Kan, I. P., Wilson, A., Thompson-Schill, S. L., and Chatterjee, A. (2005). Conceptual representations of action in lateral temporal cortex. *Journal of Cognitive Neuroscience*, **17**, 855-870. doi: 10.1162/089892905775008625.
4. **Kable, J. W.**, Lease-Spellmeyer, J., and Chatterjee, A. (2002). Neural substrates of action event knowledge. *Journal of Cognitive Neuroscience*, **14**, 795-805. doi:10.1162/08989290260138681.
3. **Kable, J. W.**, Murrin, L. C. and Bylund, D. B. (2000). *In Vivo* gene modification elucidates subtype-specific functions of α -2 adrenergic receptors. *Journal of Pharmacology and Experimental Therapeutics*, **293**, 1-7.
2. Burgess, K. S. D., **Kable, J. W.**, and Justice, J. B. (1999). Rotating disk electrode voltammetry applied to the kinetics of uptake and efflux in wild-type and mutant catecholamine transporters. *Electroanalysis*, **11**, 337-343. doi: 10.1002/(SICI)1521-4109(199905)11:5<337::AID-ELAN337>3.0.CO;2-C.
1. Justice, J. B., Danek, K. S., **Kable, J. W.**, Barker, E. L., and Blakely, R. D. (1998). Voltammetric approaches to kinetics and mechanism of the norepinephrine transporter. *Advances in Pharmacology*, **42**, 191-194.

Book Chapters, Commentary, Conference Reports:

* = JWK trainee

11. Lempert, K.* and **Kable, J. W.** (2017). Separating identity and value in the identity-value model. *Psychological Inquiry*, **28**: 103-107. doi: 10.1080/1047840X.2017.1337386.

10. Parthasarathi, T.*, and **Kable, J. W.** (2017). Cognitive neuroscience methods: An introductory overview for social scientists. In *Thinking About Bribery: Neuroscience, Moral Cognition and Psychology of Bribery* (Phillip M. Nichols & Diana Robertson, eds.).
9. McGuire, J. T.*, and **Kable, J. W.** (2016). Deciding to curtail persistence. In *Handbook of Self-Regulation* (Kathleen Vohs & Roy Baumeister, eds.), pp. 533-546.
8. Vo, K.*, Rutledge, R., Chatterjee, A., and **Kable, J. W.** (2015). Reply: Differential functions of ventral and dorsal striatum. *Brain*.
7. McGuire, J. T.*, and **Kable, J. W.** (2014). Go means green. *Nature Neuroscience*, **17**: 489-490. doi: 10.1038/nn.3680.
6. **Kable, J. W.** (2013). Valuation, intertemporal choice and self-control. In *Neuroeconomics, 2nd edition* (Paul Glimcher & Ernst Fehr, eds.).
5. Kurzban, R., Duckworth, A., **Kable, J. W.**, and Myers, J. (2013). Cost-benefit models as the next, best option for understanding subjective effort. *Behavioral and Brain Sciences*, **36**: 707-726. doi: 10.1017/S0140525X13001532.
4. **Kable, J. W.** (2012). Neuroeconomics: an example of how neuroscience can inform the social sciences. In *Grounding Social Sciences in Cognitive Sciences* (Ron Sun, ed.), pp. 315-350.
3. **Kable, J. W.** (2011). Social influences on “self”-control. *Decision making for a social world*. Webconference at cognitionandculture.net.
2. McGuire, J. T.*, and **Kable, J. W.** (2011). Time interval statistics adaptively modulate decision makers’ willingness to wait for delayed outcomes. *Proceedings of the Cognitive Science Society 33rd Annual Conference*.
1. **Kable, J. W.** (2010). Just a little (lateral prefrontal) patience. *Nature Neuroscience*, **5**, 523-524. doi: 10.1038/nn0510-523.

Working Papers, Manuscripts Under Review or In Revision:

* = JWK trainee

12. Brethel-Haurwitz, K. M.*, Oathes, D. J., **Kable, J. W.** Causal role of the right temporoparietal junction in selfishness depends on the social context. *PsyArXiv*
11. Filipowicz, A. L. S.*, Levine, J., Piasini, E., **Kable, J. W.**, Gold, J. I. The complexity of model-free and model-based learning strategies. *bioRxiv*, doi: 10.1101/2019.12.28.879965.
10. Kang, M. S.*, Wolf, D. H., Kazinka, R.*, Lee, S.*, Ruparel, K., Elliott, M. A., Baldassano, C. F., Xu, A., Cieslak, M., Prettyman, G., Satterthwaite, T. D., **Kable, J. W.** Decision value signals in the ventromedial prefrontal cortex and anhedonia across mood and psychotic disorders. *bioRxiv*, doi: 10.1101/2020.12.01.407197.

9. Kiesow, H, Uddin, L. Q., Bernhardt, B., **Kable, J. W.**, Bzdok, D. Dissecting the midlife crisis: Disentangling social, personality and demographic determinants in social brain anatomy. *bioRxiv*, doi: 10.1101/2020.12.20.423702.
8. Koban, L., Lee, S.* , Schelski, D. S., Simon, M., Lerman, C., Weber, B., **Kable, J. W.**, and Plassmann, H. An fMRI-based brain marker predicts individual differences in delay discounting. *bioRxiv*, doi: 10.1101/2021.03.18.435969.
7. Kobayashi, K.* , Lee, S.* , Filipowicz, A. L. S.* , McGaughey, K. D., **Kable, J. W.**, and Nassar, M. R. *bioRxiv*, doi: 10.1101/2021.02.12.431038.
6. Lee, S.* , Bradlow, E., and **Kable, J. W.** Thresholded partial least squares: Fast construction of interpretable whole-brain decoders. *bioRxiv*, doi: 10.1101/2021.02.09.430524
5. Lee, S.* , Parthasarathi, T.* , Cooper, N.* , Zauberman, G., Lerman, C., and **Kable, J. W.** The future is less concrete than the present: A neural signature of the concreteness of prospective thought is modulated by temporal proximity during intertemporal decision-making. *bioRxiv*, doi:10.1101/2021.02.13.431095
4. Lee, S.* , Yu, L. Q.* , Lerman, C., and **Kable, J. W.** Subjective value, not a grid-like code, describes neural activity in ventromedial prefrontal cortex during value-based decision-making. *bioRxiv*, doi: 10.1101/759951.
3. Prettyman, G., **Kable, J. W.**, Didier, P., Shankar, S., Satterthwaite, T., Davatzikos, C., Bilker, W., Elliott, M., Ruparel, K., and Wolf, D. Relationship of ventral striatum activation during effort discounting to clinical amotivation severity in schizophrenia
2. Quan, P., He, L., Zhang, X., Zhao, K., Deng, Y., Mao, T., Lei, H., Liu, W., **Kable, J. W.**, Detre, J. A., Rao, H. Cerebellum Anatomy Predicts Individual Risk-taking Behavior and Risk Tolerance
1. Yu, L. Q.* , Dana, J., and **Kable, J. W.** Individuals with ventromedial frontal damage have more unstable still fundamentally transitive preferences. *bioRxiv*, doi: 10.1101/384024

TEACHING/MENTORING

Undergraduate & Graduate Courses:

- INTG 002: Decisions and Learning (Spring 2016, Fall 2017, Fall 2018)
- PSYC 160: Personality and Individual Differences (Fall 2009, Fall 2010, Fall 2011, Fall 2012, Spring 2014, Spring 2015)
- PSYC 273: Neuroeconomics (Spring 2020)
- PSYC 360: Research Experience in Personality (Spring 2011)
- PSYC 473: Neuroeconomics (Spring 2009, Spring 2010, Spring 2011, Spring 2012, Spring 2015, Fall 2016, Spring 2019)

- PSYC 525: Controversies in Psychology & Neuroscience (Spring 2017)

Lecturer:

- Leveraging Neuroscience for Business Impact (Executive Education: 2018, 2019)
- Undergraduate Summer Workshop in Interdisciplinary Mind and Brain Studies (Summer 2017)
- Neuroscience Core III (Spring 2015, Spring 2016, Spring 2017, Spring 2019)
- Law & Neuroscience (Spring 2015)
- Preceptorial on Neuroeconomics (Spring 2012, Fall 2012, Fall 2014)
- Penn Neuroscience Boot Camp (Summers 2009-2014)
- Penn-Princeton-Rutgers Graduate Seminar in Moral Psychology (Fall 2013)
- Marketing 960: Judgment and Decision Making (Fall 2009, Fall 2013)
- Center for Neuroscience and Society Summer Fellowships in Teaching Neuroethics (Summer 2013)
- Psychology 600: Proseminar in Social Psychology (Spring 2011, Spring 2013)
- Philosophy 525: Experiments in Ethics (Fall 2012)
- Computational Neuroscience Summer Program (Summer 2009, Summer 2010, Summer 2012)
- Institute for Research in Cognitive Science Summer Workshop for Undergraduates (Summer 2009, Summer 2012)
- Advanced Systems Neuroscience (Fall 2011)
- Psychiatry Intern Journal Club (Summer 2010)
- Bioethics 555: Neuroethics (Summer 2009)

Postdoctoral Scholars

- Yi Huang, 2020
Currently Assistant Professor of Psychology, Lingnan University
- Michael Cohen, 2019-present
- Kenji Kobayashi, 2019-present
- Alexandre Filipowicz, 2017-2020
Recipient of an individual National Research Service Award, F32 MH117924, "Measuring the role of mental model complexity on individual behavioral and neural differences in adaptive decision making"
- Kristin Brethel-Haurwitz, 2016-2020
Recipient of an individual National Research Service Award, F32 MH115661, "Neural mechanisms of pathological selfishness"
- Karolina Lempert, 2016-present
Recipient of an individual National Research Service Award, F32 AG054032, "Contributions of episodic memory to intertemporal decision-making across adulthood"
- Wi Hoon Jung, 2014-2017
Currently Assistant Professor of Psychology, Daegu University
- Chris Glaze, 2014-2016
- Matt Nassar, 2012-2013
Currently Assistant Professor of Neuroscience, Brown University
- Karin Cox, 2011-2014
- Joe McGuire, 2010-2015

Recipient of an individual National Research Service Award, F32 DA030870, “Temporal dynamics and neural mechanisms of preference reversal”; Currently Assistant Professor of Psychological & Brain Sciences, Boston University

Graduate Students (Ph.D.):

- Camilla van Geen (Psychology), 2020-present
- Min Kang (Psychology), 2018-present
- Chang-Hao Kao (Psychology), 2015-2020
Recipient of a Taiwan Ministry of Education Scholarship
- Sangil (Arthur) Lee (Psychology), 2014-2020
- Linda Yu (Psychology), 2013-2018
Recipient of an NSERC Postgraduate Scholarship
- Trishala Parthasarathi (Neuroscience), 2013-2017
- Marieta Pehlivanova (Psychology), 2012-2017
- Dahlia Mukherjee (Psychology), 2012-2014
Currently Assistant Professor of Psychiatry, Penn State Hershey Medical Center
- Betty Kim-Viechnicki (Psychology), 2010-2015
- Nicole (Senecal) Cooper (Neuroscience), 2009-2013

Graduate Students (Masters):

- Ting-Yi Lin (Behavioral and Decision Sciences), 2020-present
- Zih-Yun Yan (Behavioral and Decision Sciences), 2018-2019
- Nicolas Harbig (Psychology, Maastricht University), 2010
- Li Jiang (Neuroscience), 2009-2010

Graduate Students (Rotation):

- Catherine Ubri (Neuroscience), Summer 2019
- Ana Defendi (Neuroscience), Spring 2019
- Kara McGaughey (Neuroscience), Spring 2019
- Sara Taylor (Neuroscience), Fall 2017
- Dale Zhou (Neuroscience), Fall 2017
- Ursula Tooley (Neuroscience), Fall 2016
- Kyra Levy (Neuroscience), Summer 2016
- Vanessa Fleites (Neuroscience), Fall 2015
- Srihari Sritharan (Neuroscience), Fall 2012

Post-Baccalaureate Students (PREP Program):

- Jeff Luery, 2014
- Kourosh Zakeri, 2010-2011

Graduate Student Thesis Committees:

- Joowon Klusowski (Marketing/Psychology), 2020-present
- Ana Defendi (Neuroscience, chair), 2020-present
- Greer Prettyman (Neuroscience, chair), 2020-present
- Luigim Vargas (Neuroscience), 2020-present
- Opeyemi Alabi (Neuroscience, chair), 2017-2019

- Graham Baum (Neuroscience, chair), 2017-2019
- Ari Kahn (Neuroscience, chair), 2017-2020
- Briana Last (Psychology), 2017-present
- Andrew Murphy (Bioengineering), 2017-2019
- Joyce Zhao (Psychology), 2017-2020
- Cheyenne Allenby (Pharmacology), 2016-2019
- Meghan Healey (Neuroscience, chair), 2016-2019
- Nathan Tardiff (Psychology), 2016-2019
- Diana Xie (Neuroscience), 2016-2017
- Yunshu Fan (Neuroscience), 2015-2019
- Long Luu (Psychology), 2015-2018
- Olga Tkachenko (Psychology), 2015-2019
- Shalena Srna (Marketing), 2015-2017
- Xuan Gao (Psychology), 2014-2017
- Khaing Win (Neuroscience, chair), 2014-2017
- Gabriela Kattan Khazanov (Psychology), 2013-2018
- Johannes Eichstaedt (Psychology), 2013-2017
- Justus Myers (Psychology), 2012-2014
- Ashwin Ramayya (Neuroscience, chair), 2012-2014
- Nicole Long (Psychology), 2011-2015
- Sheeva Azma (Neuroscience, Georgetown), 2011-2013
- Teresa Pegors (Psychology), 2010-2014
- Lindsay Vass (Neuroscience), 2010-2014
- Vanessa Troiani (Neuroscience), 2010-2012
- Pam Stokes (Psychology), 2010-2011
- Marc Coutanche (Psychology), 2009-2013
- Dahlia Mukherjee (Psychology, chair), 2009-2012
- Martin Wiener (Psychology, chair), 2009-2011
- Kyu Kim (Marketing), 2009-2010
- Nina Hsu (Neuroscience), 2008-2012
- Eli Tsukayama (Psychology, chair), 2008-2012
- David January (Psychology), 2008

Other Graduate Student Committees:

- Ana Defendi (Neuroscience Preliminary Exam), 2020
- Jeesung Ahn (Psychology 699), 2020
- Greer Prettyman (Neuroscience Preliminary Exam), 2019
- Kyra Schapiro (Neuroscience Preliminary Exam), 2017
- Dilara Berkey (Psychology 699), 2017
- Diana Xie (Neuroscience Preliminary Exam), 2016
- Ari Kahn (Neuroscience Preliminary Exam), 2015
- Shalena Srna (Psychology 699), 2015
- Meghan Healey (Neuroscience Preliminary Exam), 2015
- Lauren Brumley (Psychology 699), 2014
- Jack Keefe (Psychology 699), 2014
- Kamesh Krishnamurthy (Neuroscience Preliminary Exam), 2014

- Johannes Eichstaedt (Psychology 699), 2013
- Lisa Musz (Psychology 699), 2013
- Khaing Win (Neuroscience Preliminary Exam), 2013
- Alejandro Adler (Psychology 699), 2012
- David Seelig (Neuroscience Preliminary Exam), 2012
- Ashwin Ramayya (Neuroscience Preliminary Exam), 2012
- Allison Nahmias (Psychology 699), 2011
- Kate Christison-Lagay (Neuroscience Preliminary Exam), 2010
- Marc Coutanche (Psychology 699), 2009

Undergraduate Independent Study:

- Bema Boateng (Biological Basis of Behavior), 2021
- Brendan Yoo (Biological Basis of Behavior), 2020-2021
- Thomas Hogeboom (Psychology), 2020-2021
- Joia McGivern (Psychology), 2020
- Ritin Pachnanda (PURM summer program), 2020
- Keven Querido (PURM summer program), 2020
- Olivia Heflin (Psychology), 2019
- Derek Nuamah (mindCORE summer fellow, Biological Basis of Behavior), 2019
- Nabil Khan, 2019
- Caroline Carballiera (Psychology), 2018
- Catherine Park (Psychology), 2018
- Kate Petrova (Bryn Mawr), 2018
- Evan Spector (Cognitive Science), 2018
- Marta Teferi (Psychology), 2018
- Heba Arshad (Biological Basis of Behavior), 2017-2018
Recipient of the Wharton Dean's Award for Excellence
- Frewine Ogbaselase (Psychology), 2017
- Natalia Ruh (Psychology), 2017
- Samantha Linhares (Cognitive Science), 2016-2018
Recipient of the College Alumni Society Prize in Cognitive Science
- Christopher Hanson (Psychology), 2016
- Rodney Jones, 2016
- Tiffany Dominguez (PURM summer program, Biological Basis of Behavior), 2016-2019
- Ian Jean (PURM summer program), 2016
- Jonathan Bloom (Cognitive Science), 2015-2016
- Jae Ho Hur (Psychology), 2015-2016
- Chetan Kanna (Biological Basis of Behavior), 2015-2016
- Yuhao (David) Xu, 2015
- John Paul Hagan (Psychology), 2014-2015
Recipient of the Dean's Scholar Award
- Darby Breslow (Biological Basis of Behavior), 2014
- Thomas Peterson (Cognitive Science), 2014
- Rochelle Shen (Biological Basis of Behavior), 2014
- Kelsey Williams (Psychology), 2014
- Lina Hashem (Cognitive Science), 2013-2014

- Margaret Merrill (Psychology), 2013-2014
Recipient of the Sabini Award
- Kathleen Hoe (Psychology), 2013
- Athena Lem (Psychology), 2013
- Praachi Raje (Biological Basis of Behavior), 2013
- Yael Burla (Biological Basis of Behavior), 2012-2014
- Nitya Kanuri (Biological Basis of Behavior), 2012
- Peter McNally, 2012
- Jose Robles (Psychology), 2012
- Katy Siu (Psychology, post-baccalaureate), 2012
- Emily Wasserman, 2012
- Oscar Bartra Carreras (Positive Studies summer program), 2011-2012
- Zeynep Enkavi (Cognitive Science), 2011-2012
- Justin Reggi (Biological Basis of Behavior), 2011-2012
- Shikha Saxena (Biological Basis of Behavior), 2011-2012
- Sophie Gindea (PURM summer program), 2011
- Daniel Santos (Psychology), 2011
- Darryl Seligman, 2011
- Elizabeth Thompson, 2011
- Allison Oakes (Psychology), 2010-2013
Recipient of the Benjamin Franklin Society Undergraduate Research Grant
- Maggie Covell (Psychology), 2010-2011
Recipient of the Sabini Award
- Qintan Lin (Psychology), 2010-2011
Recipient of the Milstein Family Undergraduate Research Grant
- Tim Kable, 2010
- Teresa Wang (Biology/Life Sciences & Management Program), 2010
- Khoi Vo (Biological Basis of Behavior), 2009-2012
Recipient of the Goldfeder Family Undergraduate Research Grant
- Cindy Kim (Psychology), 2009-2010
- Sunny Saxena (Biology/Life Sciences & Management Program), 2009

High School Students (LENS Program):

- Maira Asif, 2019
- Ance Maria Thankachan, 2018
- Najifa Zaman, 2018
- Ciani Batista, 2017
- Andra Nwankwo, 2017
- Layla Basil, 2016
- Shelby Cleveland, 2016

SERVICE

Department of Psychology:

- Ad-hoc committee for target-of-opportunity hire, 2020

- Chair, Cognitive or Affective Science Search Committee, 2017-2018
- Affective Science Search Committee, 2016-2017
- Ad-hoc committee for Research Assistant Professor search, 2015
- Strategic Planning Committee, 2014-2015
- Evolution Cluster Search Committee, 2013-2014
- Ad-hoc committee for target-of-opportunity hire, 2012
- Graduate Group Executive Committee, 2011-2012, 2015-2016, 2018-2019, 2020-2021
- Clinical Search Committee, 2010-2011
- Institutional Review Board representative, 2010-2011
- Chair's Advisory Committee, 2009-2010

School of Arts & Science:

- Director, MindCORE, 2019-present
- Faculty Working Group on Mapping the Mind, 2019-2020
- Associate Director for Research, MindCORE, 2017-2019
- Pinkel Lecture Committee, 2016-2019
- Faculty Planning Group on Mapping the Mind, 2015-2017
- Strategic Planning Faculty Working Group, "Mapping the Mind", 2013-2014

Neuroscience Graduate Group:

- Clinical Neurosciences Training Program Faculty Advisory Board, 2016-present
- Admissions Ad Hoc Committee, 2015
- Organizer, Systems & Computational Neuroscience Lab Nights, 2013-2016
- Academic Review Committee, 2010-present
- Rotation Talks Committee, 2009-2010

Biomedical Graduate Studies:

- Pharmacology Graduate Group Review Committee, 2013-2014

Mahoney Institute for Neurosciences:

- Seminar Committee, 2014-2015

Center for Cognitive Neuroscience:

- Organizer, Professional Development Workshops, 2015-2016

brainSTIM Center:

- Internal Advisory Board, 2020-present

PROFESSIONAL ACTIVITIES

Leadership Positions:

- President-Elect, President and Immediate Past President, Society for Neuroeconomics, 2016-2019
- Chair, Program Committee, Society for Neuroeconomics, 2015-2017
- Program Committee, Society for Neuroeconomics, 2014-2015
- Elected Board Member, Society for Neuroeconomics, 2013-2016

- Co-chair of the Identity and Personality Network of the Human Capital and Economic Opportunity Global Working Group, 2013-present

Editorial Board:

- Editor, WIREs Cognitive Science, 2017-present

Ad-hoc Reviewer:

- Acta Psychologica; Addiction Biology; American Economic Review; Behavioral & Brain Sciences; Biological Psychiatry; Brain; Brain Research; Cerebral Cortex; Cognition; Cognitive, Affective and Behavioral Neuroscience; Cognitive Science; Computational Brain & Behavior; Cortex; Current Directions in Psychological Science; Depression & Anxiety; eLife; Emotion; European Journal of Neuroscience; Frontiers in Behavioral Neuroscience; Frontiers in Decision Neuroscience; Frontiers in Psychology; Games and Economic Behavior; Human Brain Mapping; International Journal of Neural Systems; Journal of Cognitive Neuroscience; Journal of Economic Behavior and Organization; Journal of Experimental Psychology: General; Journal of Marketing Research; Journal of Neuroscience; Journal of Neurophysiology; Journal of Political Economy; Journal of the International Neuropsychological Society; Judgment and Decision Making; Nature; Nature Communications; Nature Neuroscience; Neurocase; Neuroimage; Neuroimage: Clinical; Neuron; Neuropsychopharmacology; Neuroscience Letters; Nicotine & Tobacco Research; PLoS Biology; PLoS Computational Biology; Proceedings of the National Academy of Sciences; Psychological Bulletin; Psychological Review; Psychological Science; Quarterly Journal of Economics; Science; Trends in Cognitive Sciences

Grant Reviewer (ad-hoc):

- National Institutes of Health (Cognition and Perception; Mechanisms of Sensory, Perceptual and Cognitive Processes; Social Psychology, Personality and Interpersonal Processes; NICHD and NIMH T32; Special Emphasis Panels: ZCA1-SLRB-2-J1; ZCA1-TCRB-Y-J3; ZRG1-BBBP-Z-04; ZCA1-SRB-J-J1; ZRG1 BBBP-T (56)); National Science Foundation (Cognitive Neuroscience; Decision, Risk and Management Sciences); Department of Defense (Defense Threat Reduction Agency); International Federation for Research in Experimental Economics; Israel Science Foundation; National Center for Responsible Gaming; Wellcome Trust

Conference Organizer:

- Society for Neuroeconomics 15th Annual Meeting, Philadelphia, PA, October 4-7, 2019.
- "The Effect of Socioeconomic Status on Identity and Personality," Chicago, IL, October 20, 2014.
- "Personality and Identity Formation in Childhood and Adolescence," Chicago, IL, May 24, 2013.
- "Decision Neuroscience: How Neuroscience can Inform Behavioral Decision Making Research – Overview, Methods & Applications," Ann Arbor, MI, August 21-23, 2009.

Invited Talks (National & International):

- Virginia Tech Carilion Fralin Biomedical Research Institute, Roanoke, VA, October 25, 2019.
- Djavad Mowafaghian Centre for Brain Health, University of British Columbia, Vancouver,

- BC, October 11, 2019.
- Symposium on Neuroeconomics and Financial Decision Making, Federal Reserve Bank of Philadelphia, Philadelphia, PA, August 6, 2019.
 - Neuroeconomics Summer School, Shanghai, China, July 11, 2019.
 - TIAA Spring Research Forum, New York, NY, June 19, 2019.
 - “From Individual Decision Making to the Population: Promises and Challenges for Decision Neuroscience” workshop at 11th Triennial Choice Symposium, Cambridge, MD, May 29-June 2, 2019.
 - Princeton-Rutgers Center for Computational Psychiatry, New Brunswick, NJ, May 15, 2019.
 - Montreal Neurological Institute, McGill University, Montreal, QC, Canada, April 23, 2019.
 - “Decision Making under Risk and Uncertainty,” Neuroscience School for Advanced Studies, Venice, Italy, October 21, 2018.
 - Department of Psychology, Beijing National University, Beijing, China, June 20, 2018.
 - Department of Psychology, National Central University, Taipei, Taiwan, May 29, 2018.
 - Department of Psychology, Beijing University, Beijing, China, May 17, 2018.
 - Department of Psychology, National Chengchi University, Taipei, Taiwan, May 10, 2018.
 - Department of Psychology, Southwest University, Chongqing, China, April 12, 2018.
 - Systems, Cognitive and Computational Neuroscience, Columbia University, New York, NY, December 12, 2017.
 - Department of Psychology, Columbia University, New York, NY, December 12, 2017.
 - “Time, Decision, and Planning,” workshop at the University of Sydney, Sydney, Australia, November 20, 2017.
 - Department of Psychology, University of Minnesota, Minneapolis, MN, November 1, 2017.
 - Current Work in Behavior, Genetics & Neuroscience, Department of Psychology, Yale University, New Haven, CT, October 27, 2017.
 - Cognition and Perception, Department of Psychology, New York University, New York, NY, October 19, 2017.
 - Shanghai Collective Neuroeconomics Summer School, Shanghai, China, July 24, 2017.
 - Faculty of Psychology, Southwest University, Chongqing, China, July 19, 2017.
 - Translational Institute on Pain in Later Life (TRIPLL) Webinar Series, June 26, 2017.
 - 7th International Symposium on the Biology of Decision-Making, Bordeaux, France, May 14, 2017.
 - “Frontal Cortex Contributions to Decision-Making,” symposium at the 24th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA, March 26, 2017.
 - “Persistent Maladaptive Behaviors: Why We Make Bad Choices,” symposium at the University of Rochester, Rochester, NY, October 13, 2016.
 - Neural and Cognitive Sciences Seminar, University of Maryland, College Park, MD, September 30, 2016.
 - Consumer Neuroscience Symposium, Berlin, Germany, August 27, 2016.
 - RWTH Aachen, Aachen, Germany, August 25, 2016.
 - “Predicting Choice: Using Neural Insights for Population-Level Forecasting” workshop at 10th Triennial Choice Symposium, Lake Louise, AB, Canada, May 17, 2016.
 - “Neuroscience of Decision-Making,” 38th International Symposium of the GRNSC, Universite de Montreal, Montreal, QC, Canada, May 2, 2016.
 - Department of Psychology, Bucknell University, Lewisburg, PA, February 11, 2016.
 - “Value-Based Decision-Making and Psychopathology: Parsing Cognition to Uncover

- Transdiagnostic Pathomechanisms,” panel at the 29th Annual Meeting of the Society for Research in Psychopathology, New Orleans, LA, October 17, 2015.
- Center for Mind, Brain and Culture, Emory University, Atlanta, GA, September 24, 2015.
 - Shanghai Collective Neuroeconomics Summer School, Shanghai, China, July 17, 2015.
 - Dusseldorf Symposium for Decision Neuroscience, Dusseldorf, Germany, June 12, 2015.
 - Marketing Department, INSEAD, Fontainebleau, France, May 15, 2015.
 - Cognitive Science, University of Delaware, Newark, DE, April 17, 2015.
 - Behavioral Economics and Decision Research Workshop, Cornell University, Ithaca, NY, April 7, 2015.
 - NIDA Intramural Research Program Lecture Series, Baltimore, MD, July 29, 2014.
 - 4th Annual Interdisciplinary Symposium in Decision Neuroscience, Stanford University, June 6, 2014.
 - "Social, affective, and cognitive neuroscience in health decision making," symposium at 35th Annual Meeting of the Society of Behavioral Medicine, Philadelphia, PA, April 24, 2014.
 - Experimental Economics Seminar, Rutgers University, New Brunswick, NJ, April 2, 2014.
 - Affective Brain Lab Online Talk Series, March 20, 2014.
 - Department of Economics, University of Zurich, Zurich, Switzerland, December 12, 2013.
 - “Neuroscience of Self-control,” minisymposium at the 43rd Annual Meeting of the Society for Neuroscience, San Diego, CA, November 13, 2013.
 - Multidisciplinary Symposium on Reinforcement Learning and Decision Making, Princeton University, Princeton, NJ, October 25, 2013.
 - “Controversies in Neuroeconomics: Value Representation,” panel at the 10th Annual Meeting of the Society for Neuroeconomics, Lausanne, Switzerland, September 28, 2013.
 - Center for Neuroeconomics, New York University, New York, NY, September 17, 2013.
 - “Advancing Biological Understanding of Economic and Consumer Decision Making” workshop at 9th Triennial Choice Symposium, Noordwijk, Netherlands, June 13, 2013.
 - Department of Psychology, Columbia University, New York, NY, March 13, 2013.
 - Summer Institute in Cultural Neuroscience, University of Michigan, Ann Arbor, MI, July 17, 2012.
 - Symposium on Advances in Integrative Cognitive Neuroscience, National Yang-Ming University, Taipei, Taiwan, June 17, 2012.
 - Microeconomics Seminar, National Taiwan University, Taipei, Taiwan, June 14, 2012.
 - University of Iowa Marketing Department, Iowa City, IA, May 18, 2012.
 - Integrative Cell Signaling & Neurobiology of Metabolism Seminar, Yale University, New Haven, CT, October 4, 2011.
 - Interdisciplinary Symposium in Decision Neuroscience, Temple University, September 17, 2011.
 - Summer Institute in Cultural Neuroscience, University of Michigan, Ann Arbor, MI, July 27, 2011.
 - Interdisciplinary Symposium in Decision Neuroscience, Temple University, September 26, 2010.
 - “Decision Neuroscience” workshop at 8th Triennial Choice Symposium, Key Largo, FL, May 13, 2010.
 - Neuromarketing Symposium, Fox School of Business, Temple University, Philadelphia, PA, March 26, 2010.
 - “Decision making and learning: Beyond the basics” workshop at 7th Annual Computational

- and Systems Neuroscience meeting (COSYNE), Snowbird, UT, March 2, 2010.
- Cognitive Lunch Talk Series, Yale University, New Haven, CT, February 9, 2010.
 - Neuroscience of Social Decision-Making Talk Series, Princeton University, Princeton, NJ, December 16, 2009.
 - Department of Psychology, University of California at Berkeley, Berkeley, CA, March 17, 2008.
 - McGovern Institute for Brain Research and Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology, Cambridge, MA, February 26, 2008.
 - Department of Psychological and Brain Sciences, Johns Hopkins University, Baltimore, MD, February 20, 2008.
 - Department of Psychology, University of Wisconsin at Madison, Madison, WI, February 4, 2008.
 - Department of Psychology, University of Pennsylvania, Philadelphia, PA, January 30, 2008.
 - Department of Psychology, University of Pittsburgh, Pittsburgh, PA, January 7, 2008.
 - Department of Psychology, Rutgers University at Newark, Newark, NJ, December 19, 2007.
 - Division of the Humanities and Social Sciences, California Institute of Technology, Pasadena, CA, December 3, 2007.
 - “Neuroeconomics: Decision-making and the Brain” conference at Brown University, Providence, RI, December 11, 2007.
 - Center for Cognitive Neuroscience, University of Pennsylvania, Philadelphia, PA, October 8, 2007.
 - Neuro-Finance Symposium, University of Zurich, Zurich, Switzerland, July 7, 2007.
 - “The Neuroeconomics of Simple Choice” symposium at the Cognitive Neuroscience Society 14th Annual Meeting, New York, NY, May 7, 2007.
 - Department of Neuroscience, Baylor College of Medicine, Houston, TX, February 5, 2007.
 - “Strategies for Risk Communication: Evolution, Evidence and Experience” symposium hosted by the Society for Risk Analysis, Montauk, NY, May 17, 2006.
 - Fiez lab, Department of Psychology, University of Pittsburgh, Pittsburgh, PA, November 4, 2003.
 - Glimcher lab, Center for Neural Science, New York University, New York, NY, October 28, 2003.

Invited Talks (Local):

- 8th Annual GVR Khodadad Lecture, University of Pennsylvania, Philadelphia, PA, December 5, 2019.
- Center for Neuroscience & Society 10th Anniversary Reunion, University of Pennsylvania, Philadelphia, PA, August 2, 2019.
- 60-Second Lecture, University of Pennsylvania, Philadelphia, PA, April 10, 2019.
- Lifespan Brain Institute Imaging Seminar, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA, February 28, 2019.
- Clinical Neurosciences Training Seminar, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA, October 20, 2017.
- Grand Rounds, Department of Neurosurgery, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA, March 2, 2017.
- MINS Retreat, University of Pennsylvania, Philadelphia, PA, April 27, 2016.
- Center for Health Incentives and Behavioral Economics, University of Pennsylvania,

- Philadelphia, PA, April 16, 2015.
- Penn Neuroscience Public Lecture (for Brain Awareness Week), University of Pennsylvania, Philadelphia, PA, March 13, 2014.
 - Knowledge by the Slice, University of Pennsylvania, Philadelphia, PA, November 20, 2013.
 - 8th Winter School, DFG International Research Training Group 1328, Philadelphia, PA, November 2, 2013.
 - Center for Health Incentives and Behavioral Economics, University of Pennsylvania, Philadelphia, PA, March 28, 2013.
 - Population Studies Center, University of Pennsylvania, Philadelphia, PA, November 5, 2012.
 - Penn GSE Global Leadership Congress, Philadelphia, PA, May 16, 2012.
 - Grand Rounds, Department of Neurosurgery, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA, May 10, 2012.
 - Treatment Research Center, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA, February 6, 2012.
 - TEDxPenn, Philadelphia, PA, October 7, 2011.
 - Penn Science Cafe, Philadelphia, PA, May 11, 2011.
 - Translational Neuroimaging Seminar, University of Pennsylvania, Philadelphia, PA, April 13, 2011.
 - Neuropsychology Brown Bag, Department of Psychiatry, University of Pennsylvania, Philadelphia, PA, April 23, 2010.
 - Law & Brain Public Lecture Series, University of Pennsylvania Law School, Philadelphia, PA, April 7, 2010.
 - Decision Making in the Social Sciences Seminar, University of Pennsylvania, Philadelphia, PA, March 16, 2010.
 - 20th Annual Behavioral and Cognitive Neuroscience Retreat, University of Pennsylvania, Philadelphia, PA, December 11, 2009.
 - Center for Cognitive Neuroscience 10th Anniversary Reunion, University of Pennsylvania, Philadelphia, PA, October 2, 2009.
 - Population Studies Center Colloquium, University of Pennsylvania, Philadelphia, PA, April 13, 2009.
 - Translational Neuroimaging Seminar, University of Pennsylvania, Philadelphia, PA, April 8, 2009.
 - Monell Chemical Senses Center, Philadelphia, PA, April 2, 2009.
 - Neuroscience Graduate Group Recruiting Research Seminar, University of Pennsylvania, Philadelphia, PA, January 29 & February 19, 2009.
 - Philosophy Politics and Economics (PPE) Colloquia, University of Pennsylvania, Philadelphia, PA, February 5, 2009.
 - Decision Processes Colloquia, University of Pennsylvania, Philadelphia, PA, September 15, 2008.
 - Center for Neuroeconomics, New York University, New York, NY, January 30, 2007.
 - MRI Users' Group, New York University, New York, NY, April 28, 2006.
 - Fellows Seminar, Center for Neural Science, New York University, New York, NY, February 17, 2005.
 - Systems and Integrative Biology retreat, University of Pennsylvania, Philadelphia, PA, May 24, 2004.
 - Moss Rehabilitation Research Institute, Philadelphia, PA, May 29, 2002.

- Systems and Integrative Biology retreat, University of Pennsylvania, Philadelphia, PA, May 20, 2002.

Conference Abstracts/Presentations:

* = JWK trainee

123. Filipowicz, A.*, Zaneski, L.*, Caulfield, M. K.*, Andre, Q., Singler, E., Plassmann, H., **Kable, J. W.** Using mobile eye-tracking to capture the effects of choice set size on information processing during purchase decisions in the field. (2021). Presented at the Society for Consumer Psychology conference (virtual meeting).
122. Kobayashi, K.*, Berkay, D., **Kable, J. W.**, Hsu, M., Jenkins, A. (2021). Neural representation of others' traits during social decision making. Annual Convention of the Society for Personality and Social Psychology (virtual meeting).
121. Prettyman, G. E., Didier, P., Shankar, S., Satterthwaite, T., Davatzikos, C., Bilker, W., Elliott, M., Ruparel, K., **Kable, J. W.**, Wolf, D. H. (2020). A linear model of subjective value best captures effort discounting in schizophrenia patients with motivation impairment. Presented at American College of Neuropsychopharmacology 59th Annual Meeting (virtual meeting).
120. Cohen, M.*, Lempert, K.*, MacNear, K.*, Reckers, F.*, Zaneski, L.*, Wolk, D., **Kable, J. W.** (2020). Effects of memory for emotional valence and episodic detail on decision-making in aging. Presented at the Society for Neuroeconomics 17th Annual Meeting (virtual meeting).
119. Filipowicz, A.*, Zaneski, L.*, Caulfield, M. K.*, Andre, Q., Singler, E., Plassmann, H., **Kable, J. W.** (2020). Using mobile eye-tracking to capture the effects of choice set size on information processing during purchase decisions in the field. Presented at the Society for Neuroeconomics 17th Annual Meeting (virtual meeting).
118. Fuccillo, M., Kable, J. W., Alabi, O. Exploring molecular contributions to disease-relevant alterations in reward processing: Disruption of Nr1h1 within excitatory forebrain circuits drives value-based dysfunction. (2020). Presented at the Society for Neuroeconomics 17th Annual Meeting (virtual meeting).
117. Kao, C-H.*, Dominguez, T.*, Lerman, C., **Kable, J. W.** (2020). Neural and computational mechanisms for choice inconsistency. Presented at the Society for Neuroeconomics 17th Annual Meeting (virtual meeting).
116. Koban, L., Lee, S.*, Schelski, D., Simon, M-C., Lerman, C., Weber, B., **Kable, J. W.**, Plassmann, H. (2020). Predicting individual differences in delay discounting based on fMRI. Presented at the Society for Neuroeconomics 17th Annual Meeting (virtual meeting).

115. Kobayashi, K.*, Lee, S.*, Filipowicz, A.*, McGaughey, K., **Kable, J. W.**, and Nassar, M. (2020). Dynamic representation of the subjective value of information. Presented at the Society for Neuroeconomics 17th Annual Meeting (virtual meeting).
114. Lempert, K.*, Seghal, S.*, **Kable, J. W.** (2020). Pupil dilation reflects individual differences in temporal expectations during persistence for delayed rewards. Presented at the Society for Neuroeconomics 17th Annual Meeting (virtual meeting).
113. Prettyman, G. E., Levinson, T. G., **Kable, J. W.**, Satterthwaite, T., Davatzikos, C., Shinohara, R. T., Calkins, M., Elliott, M., Gur, R. C., Gur, R. E., Wolf, D. H. (2019). fMRI study of intrinsic motivation impairment in psychosis risk. Presented at American College of Neuropsychopharmacology 58th Annual Meeting, Orlando, FL.
112. Yu, L. Q.*, Filipowicz, A. L. S.*, Nassar, M. N., **Kable, J. W.** (2019) Ventromedial prefrontal damage impairs model based learning. Presented at the Society for Neuroscience 49th Annual Meeting, San Diego, CA.
111. Aydogan, G., Daviet, R., Karlsson Linnér, R., Hare, T. A., **Kable, J. W.**, Kranzler, H. R., Wetherill, R. R., Ruff, C. C., Koellinger, P. D., Nave, G. (2019) Large-scale evidence for neuroanatomical and genetic associations with risky behaviors. Presented at the Society for Neuroeconomics 16th Annual Meeting, Dublin, Ireland.
110. Kang, M. S.*, Wolf, D. H., Kazinka, R.*, Lee, S.*, Ruparel, K., Elliott, M. A., Baldassano, C. F., Xu, A., Cieslak, M., Satterthwaite, T. D., **Kable, J. W.** (2019) Delay discounting and anhedonia: a transdiagnostic approach. Presented at the Society for Neuroeconomics 16th Annual Meeting, Dublin, Ireland.
109. Kao, C.-H.*, Chen, Y.*, Ogbaselase, F.*, Gold, J. I., and **Kable, J. W.** (2019) Physiological markers predict the adjustment of learning rates in a dynamic environment. Presented at the Society for Neuroeconomics 16th Annual Meeting, Dublin, Ireland.
108. Mukherjee, D.*, Filipowicz, A. L. S.*, Vo, K.*, Satterthwaite, T. S., and **Kable, J. W.** (2019) Differences in reinforcement learning dynamics predict major depressive disorder. Presented at the Society for Neuroeconomics 16th Annual Meeting, Dublin, Ireland.
107. Brethel-Haurwitz, K.*, Oathes, D., and **Kable, J. W.** (2019). Inhibitory TMS to right temporoparietal junction modulates inequity aversion. Presented at Association for Psychological Science 31st Annual Meeting, Washington, DC.
106. Duprat, R., Kristin, L., Ciric, R., Sheline, Y., Platt, M., Gold, J., **Kable, J. W.**, Adams, G., Sharika, K. M., Dallstream, A., Shinohara, R. T., Long, H., Scully, M., Oathes, D. (2019). Functional connectivity as a tool to individualize dlPFC targeting in TMS. Presented at 3rd International Brain Stimulation Conference, Vancouver, BC.
105. Oathes, D., Duprat, R., Scully, M., Long, H., Linn, K., **Kable, J. W.**, Gold, J. I., Platt, M. P., and Sheline, Y. (2018). Transcranial magnetic stimulation causally influences the

subcallosal cingulate cortex indexed by interleaved TMS/fMRI. Presented at American College of Neuropsychopharmacology 57th Annual Meeting, Hollywood, FL.

104. Prettyman, G. E., Levinson, T. G., Shankar, S., Satterthwaite, T., Davatzikos, C., Bilker, W., Elliott, M., Ruparel, K., **Kable, J. W.**, Wolf, D. H. (2018). Abnormal ventral striatum activation during effort discounting correlates with clinical amotivation severity in schizophrenia. Presented at American College of Neuropsychopharmacology 57th Annual Meeting, Hollywood, FL.
103. Filipowicz, A. L.*, Glaze, C. M.*, **Kable, J. W.**, and Gold, J. I. (2018) Tonic pupil dynamics predicts individual differences in the complexity of mental models used for adaptive decision-making. Presented at the Society for Neuroscience 48th Annual Meeting, San Diego, CA.
102. Lempert, K.*, Wolk, D. and **Kable, J. W.** (2018) Neural and behavioral correlates of episodic are associated with temporal discounting in older adults. Presented at the Society for Neuroscience 48th Annual Meeting, San Diego, CA.
101. Brethel-Haurwitz, K., and **Kable, J. W.** (2018) Characterization of the selfish personality. Presented at the Society for Neuroeconomics 15th Annual Meeting, Philadelphia, PA.
100. Filipowicz, A. L.*, Glaze, C. M.*, Krishnamurthy, K., **Kable, J. W.**, and Gold, J. I. (2018) Mental model complexity underlies individual differences in adaptive decision-making. Presented at the Society for Neuroeconomics 15th Annual Meeting, Philadelphia, PA.
99. Kao, C-H.*, Khambhati, A., Bassett, D., Gold, J. I., and **Kable, J. W.** (2018) Functional network reconfiguration during learning in a dynamic environment. Presented at the Society for Neuroeconomics 15th Annual Meeting, Philadelphia, PA.
98. Lee, S.*, Parthasarathi, T., and **Kable, J. W.** (2018) Neural evidence that delayed rewards are less concrete. Presented at the Society for Neuroeconomics 15th Annual Meeting, Philadelphia, PA.
97. Lempert, K.*, Wolk, D. and **Kable, J. W.** (2018) Neural and behavioral correlates of episodic are associated with temporal discounting in older adults. Presented at the Society for Neuroeconomics 15th Annual Meeting, Philadelphia, PA.
96. Yu, L.*, Dana, J., and **Kable, J. W.** (2017) Individuals with ventromedial frontal damage have unstable, but fundamentally transitive preferences. Presented at the Society for Neuroscience 47th Annual Meeting, Washington, DC.
95. Brethel-Haurwitz, K., and **Kable, J. W.** (2017) Characterization of selfish behavior in a modified dictator game. Presented at the Society for Neuroeconomics 14th Annual Meeting, Toronto, Ontario.

94. Kao, C-H.*, and **Kable, J. W.** (2017) Noise or signal? Context-sensitive neural signals that discriminate the source of errors during adaptive learning. Presented at the Society for Neuroeconomics 14th Annual Meeting, Toronto, Ontario.
93. Lee, S.*, and **Kable, J. W.** (2017) Neural currency: domain-general neural map of value predicts choices across subjects and across tasks. Presented at the Society for Neuroeconomics 14th Annual Meeting, Toronto, Ontario.
92. Lempert, K.*, Wolk, D. and **Kable, J. W.** (2017) Episodic memory ability predicts temporal discounting in older adults. Presented at the Society for Neuroeconomics 14th Annual Meeting, Toronto, Ontario.
91. Yu, L.*, Lee, S.*, and **Kable, J. W.** (2017) Value or a cognitive map? Comparing grid-like conceptual representations and subjective value signals during decision-making. Presented at the Society for Neuroeconomics 14th Annual Meeting, Toronto, Ontario.
90. **Kable, J. W.**, Nassar, M. N.*, McGuire, J. T.* (2016). Dissociable explanations for uncertainty driven changes in neural representation across the brain. Presented at the Society for Neuroscience 46th Annual Meeting, San Diego, CA.
89. Parthasarathi, T.*, and **Kable, J. W.** (2016). The dorsal and ventral default mode network respond differentially to the valence and vividness of imagined events. Presented at the Society for Neuroscience 46th Annual Meeting, San Diego, CA.
88. Glaze, C. M.*, **Kable, J. W.**, and Gold, J. I. (2016). A bias-variance tradeoff that governs individual variability in learning and decision-making. Presented at the Society for Neuroscience 46th Annual Meeting, San Diego, CA.
87. Caulfield, M. K.*, **Kable, J. W.**, Falcone, M., McConnell, M.*, Bernardo, L., Parthasarathi, T.*, Cooper, N.*, Ashare, R., Audrain-McGovern, J., Hornik, R., Diefenback, P., Lee, F., and Lerman, C. (2016). Cognitive training, the brain, and decision-making. Presented at the Society for Neuroscience 46th Annual Meeting, San Diego, CA.
86. Lempert, K., McGuire, J. T.*, Hazeltine, D. B., **Kable, J. W.**, and Phelps, E. A. (2016). Cortisol response to acute stress predicts more optimal persistence behavior. Presented at the Society for Neuroscience 46th Annual Meeting, San Diego, CA.
85. Ternes, K., **Kable, J. W.**, McGuire, J. T.*, Rascovsky, K., McMillan, C., and Grossman, M. (2016). Reversal Learning Deficits in Behavioral Variant Frontotemporal Degeneration. Presented at the Society for Neuroscience 46th Annual Meeting, San Diego, CA.
84. Glaze, C. M.*, Lee, S.*, and **Kable, J. W.** (2016) Evidence for stochastic discount rates in behavioral and brain imaging data. Presented at the Society for Neuroeconomics 13th Annual Meeting, Berlin, Germany.

83. Kao, C-H.*, and **Kable, J. W.** (2016) Physiological markers during adaptive learning in a changing environment. Presented at the Society for Neuroeconomics 13th Annual Meeting, Berlin, Germany.
82. Yu, L.*, Dana, J., and **Kable, J. W.** (2016) Individuals with ventromedial prefrontal damage have preferences that are more unstable, but fundamentally transitive. Presented at the Society for Neuroeconomics 13th Annual Meeting, Berlin, Germany.
81. Ternes, K., **Kable, J. W.**, McGuire, J. T.*, Rascovsky, K., McMillan, C., and Grossman, M. (2016). Neural Correlates of Reversal Learning Deficits in Behavioral Variant Frontotemporal Degeneration. Presented at 10th International Conference on Frontotemporal Dementias, Munich, Germany.
80. Lempert, K., McGuire, J. T.*, Hazeltine, D. B., **Kable, J. W.**, and Phelps, E. A. (2016). The effects of stress on the calibration of persistence. Presented at Cognitive Neuroscience Society 23rd Annual Meeting, New York, NY.
79. Medaglia, J. D., Gu, S., Pasqualetti, F., Lerman, C., **Kable, J. W.**, Bassett, D.S. (2016). Network controllability as a mediating mechanism for cognitive control. Presented at Cognitive Neuroscience Society 23rd Annual Meeting, New York, NY.
78. Parthasarathi, T.*, and **Kable, J. W.** (2016). Double dissociation of valence and vividness effects on the dorsal and ventral default mode network. Presented at Cognitive Neuroscience Society 23rd Annual Meeting, New York, NY.
77. Glaze, C. M.*, **Kable, J. W.**, and Gold, J. I. (2016). A bias-variance tradeoff that governs individual variability in learning and decision-making. Presented at the Computational and Systems Neuroscience 16th Annual Meeting, Salt Lake City, UT.
76. Glaze, C. M.* and **Kable, J. W.** (2015) Why are decisions “noisy”? Evidence for stochastic discount rates in intertemporal choice. Presented at the Society for Neuroeconomics 12th Annual Meeting, Miami, FL.
75. Jung, W. H.*, Ashare, R., Falcone, M., Lerman, C., and **Kable, J. W.** (2015) Neuroanatomical markers of individual differences in delay discounting: a voxel-based morphometry study. Presented at the Society for Neuroeconomics 12th Annual Meeting, Miami, FL.
74. Kazinka, R.*, McNally, P., Jiang, T., Bicchieri, C., and **Kable, J. W.** (2015) Ventromedial Patients Demonstrate Errors in Theory of Mind and Social Cognition. Presented at the Society for Neuroeconomics 12th Annual Meeting, Miami, FL.
73. Lee, S.*, Gold, J. I., and **Kable, J. W.** (2015) Adaptive Learning Rates in a Continuously and Gradually Changing Environment. Presented at the Society for Neuroeconomics 12th Annual Meeting, Miami, FL.

72. Pehlivanova, M.*, Wolf, D. H., Gur, R. E., Gur, R. C., Davatzikos, C., **Kable, J. W.**, and Satterthwaite, T. (2015) Neuroanatomical markers of individual differences in delay discounting: a voxel-based morphometry study. Presented at the Society for Neuroeconomics 12th Annual Meeting, Miami, FL.
71. Tee, J., **Kable, J. W.**, Maloney, L. T. (2015) Evidence of Quantization in Intertemporal Decision-Making. Presented at the Society for Neuroeconomics 12th Annual Meeting, Miami, FL.
70. Yu, L. Q.*, Cooper, N.*, Kim, K., Zauberman, G., and **Kable, J. W.** (2015) Timing of value representation in ventromedial prefrontal cortex in a complex auction task. Presented at the Society for Neuroeconomics 12th Annual Meeting, Miami, FL.
69. Rascovsky, K., **Kable, J. W.**, Moran, E., Olm, C., Kazinka, R.*, McCluskey, L., Elman, L., Boller, A., McMillan, C., Clark, R., Grossman, M. Decision making in Amyotrophic Lateral Sclerosis. (2015). Presented at American Academy of Neurology 67th Annual Meeting, Washington, DC.
68. Wolf, D. H., Daldal, A., Katchmar, N., Li, B., Vandekar, L., **Kable, J. W.**, Satterthwaite, T., Davatzikos, C., Siegelman, M., Bilker, W., Elliot, M., Ruparel, K. (2015). Amotivation in schizophrenia and first-degree relatives: functional neuroimaging and association with social vs. nonsocial impairment. Presented at the 15th International Congress on Schizophrenia Research, Colorado Springs, CO.
67. Sharma, A., Satterthwaite, T. D., Vandekar, L., Katchmar, N., Li, B., Daidal, A., Ruparel, K., Elliott, M. A., Baldassano, C., Thase, M. E., Gur, R. E., **Kable, J. W.**, Wolf, D. H. (2014). fMRI reveals divergent responses to social rewards among patients with unipolar versus bipolar depression. Presented at American College of Neuropsychopharmacology 53rd Annual Meeting, Phoenix, AZ.
66. Wolf, D. H., **Kable, J. W.**, Satterthwaite, T., Davatzikos, C., Bilker, W., Katchmar, N., Vandekar, L., Daldai, A., Li, B., Siegelman, M., Elliot, M., Ruparel, K. (2014). Effort discounting fMRI identifies neurobehavioral mechanisms of amotivation. Presented at American College of Neuropsychopharmacology 53rd Annual Meeting, Phoenix, AZ.
65. Kim-Viechnicki, B.E.* , and **Kable, J.W.** (2014). Is there overlapping neural activation from different sources of decision difficulty. Presented at the Society for Neuroscience 44th Annual Meeting, Washington, D.C.
64. Kazinka, R.*, Enkavi, A. Z.*, and **Kable, J.W.** (2014). Individual differences in the asymmetric dominance effect. Presented at the Society for Neuroeconomics 11th Annual Meeting, Miami, FL.
63. Kim-Viechnicki, B.E.* , and **Kable, J.W.** (2014). Do different types of decision difficulty have a common neural correlate. Presented at the Society for Neuroeconomics 11th Annual Meeting, Miami, FL.

62. McGuire, J. T.*, Mukherjee, D.*, Kazinka, R.*, Vaidya, A. R., and **Kable, J. W.** (2014). Altered willingness to wait for delayed rewards in the context of psychopathology or focal brain injury. Presented at Society for Neuroeconomics 11th Annual Meeting, Miami, FL.
61. Mukherjee, D.*, Vo, K.*, and **Kable, J.W.** (2014). Reward? What Reward? Probabilistic Reversal Learning in Depression. Presented at Society for Neuroeconomics 11th Annual Meeting, Miami, FL.
60. Pehlivanova, M.*, **Kable, J.W.** (2014). IQ predicts individual differences in adaptive learning. Presented at Society for Neuroeconomics 11th Annual Meeting, Miami, FL.
59. Rascovsky, K., **Kable, J. W.**, Kazinka, R.* ,Moran, E., Olm, C., Glasenberg, J., Boller, A., McGuire, J. T. *, McMillan, C., Clark, R., Grossman, M. (2014) Temporal discounting of future rewards in behavioral variant frontotemporal dementia (bvFTD) and Alzheimer's Disease (AD). Presented at 9th International Conference on Frontotemporal Dementias, Vancouver, BC.
58. Pegors, T., **Kable, J. W.**, Chatterjee, A., Epstein, R. (2014). Category-specific encoding of face and place attractiveness in the brain. Presented at International Association of Empirical Aesthetics 23rd Annual Meeting, New York, NY.
57. Satterthwaite, T. D., Vandekar, L., Katchmar, N., Ruparel, K., Elliott, M. A., Baldassano, C., Liebenluft, E., Thase, M. E., Gur, R. C., Gur, R. E., **Kable, J. W.**, Wolf, D. H. (2014). Common and divergent reward responses associated with severity of unipolar and bipolar depression. Presented at Society of Biological Psychiatry 69th Annual Meeting, New York, NY.
56. Wolf, D. H., **Kable, J. W.**, Satterthwaite, T. D., Katchmar, N., Vandekar, L. (2014). Neural circuit mechanisms of amotivation in schizophrenia as revealed by functional neuroimaging. Presented at Society of Biological Psychiatry 69th Annual Meeting, New York, NY.
55. Rascovsky, K., **Kable, J. W.**, Kazinka, R.* ,Moran, E., Olm, C., Glasenberg, J., Boller, A., McGuire, J. T. *, McMillan, C., Clark, R., Grossman, M. (2014). Temporal discounting of future rewards in behavioral variant frontotemporal dementia (bvFTD) and Alzheimer's Disease (AD). Presented at American Academy of Neurology 66th Annual Meeting, Philadelphia, PA.
54. Halfmann, K., Hedgcock, W., **Kable, J. W.**, and Denburg, N. (2014). Individual differences in subjective valuation among older adults: a functional MRI study. Presented at Cognitive Neuroscience Society 21st Annual Meeting, Boston, MA.
53. Yu, L. Q.* , Lee, S.* and **Kable, J. W.** (2014). Ventromedial prefrontal cortex and ambivalent economic decision-making. Presented at Cognitive Neuroscience Society 21st Annual Meeting, Boston, MA.

52. McGuire, J. T.*, and **Kable, J. W.** (2013). Delay-of-gratification decisions emerge from rational predictions: behavioral and neural evidence. Presented at Society for Judgment and Decision Making 34th Annual Meeting, Toronto, ON.
51. Cox, K.*, and **Kable, J. W.** (2013). Range-adapting subjective value signals in human ventral striatum. Presented at Society for Neuroscience 43rd Annual Meeting, San Diego, CA.
50. McGuire, J. T.*, and **Kable, J. W.** (2013). Calibrating behavioral persistence. Presented at Multidisciplinary Symposium on Reinforcement Learning and Decision Making, Princeton, NJ.
49. Nassar, M. R.*, McGuire, J. T.*, Gold, J. I., and **Kable, J. W.** (2013). Dissociating components of learning rate in the fMRI BOLD response. Presented at Multidisciplinary Symposium on Reinforcement Learning and Decision Making, Princeton, NJ.
48. Kazinka, R.*, Willard, D.*, Hillebrandt, A.*, **Kable, J. W.**, and Chao, L.W. (2013). Why daughters eat burnt toast: neuroeconomics of intergenerational sacrifice. Presented at Society for Neuroeconomics 10th Annual Meeting, Lausanne, Switzerland.
47. Kim-Viechnicki, B. E.*, and **Kable, J. W.** (2013). Neural correlates of effort detection in decision-making. Presented at Society for Neuroeconomics 10th Annual Meeting, Lausanne, Switzerland.
46. Kim-Viechnicki, B. E.*, Burla, Y.*, Feit, E., Plassmann, H., and **Kable, J. W.** (2013). Decisions about chocolate are processed differently than decisions about gambles: evidence from eye-tracking. Presented at Society for Neuroeconomics 10th Annual Meeting, Lausanne, Switzerland.
45. McGuire, J. T.*, and **Kable, J. W.** (2013). A learning model of time-varying expectations while waiting for delayed rewards. Presented at Society for Neuroeconomics 10th Annual Meeting, Lausanne, Switzerland.
44. Mukherjee, D.*, Cooper, N.*, Feng, T. and **Kable, J. W.** (2013). East or west, patience pays: Achievement, aptitude and delayed discounting across cultures. Presented at Society for Neuroeconomics 10th Annual Meeting, Lausanne, Switzerland.
43. Nassar, M. R.*, and **Kable, J. W.** (2013). Dissociating information value and quantity. Presented at Society for Neuroeconomics 10th Annual Meeting, Lausanne, Switzerland.
42. McGuire, J. T.*, Bartra, O.*, and **Kable, J. W.** (2013). The valuation system: a coordinate-based meta-analysis examining BOLD correlates of subjective value. Presented at Organization for Human Brain Mapping 19th Annual Meeting, Seattle, WA.
41. Hartley, C. A., Kanen, J., McKenna, M. C., Casey, B. J., **Kable, J. W.**, Phelps, E. A., and Glatt, C. E. (2013). Serotonin transporter genotype modulates impulsive choice in humans. Presented at Cognitive Neuroscience Society 20th Annual Meeting, San Francisco, CA.

40. Mukherjee, D.* , and **Kable, J. W.** (2012). Decision-making in clinical populations: a meta-analysis. Presented at Association for Behavioral and Cognitive Therapies 46th Annual Meeting, National Harbor, MD.
39. Mukherjee, D.* , Atir, S., and **Kable, J. W.** (2012). Negative affect and decision making. Presented at Anxiety Disorders Association of America 32nd Annual Meeting, Arlington, VA.
38. McGuire, J. T.* , Nassar, M. R., Heasley, B., Gold, J. I., and **Kable, J. W.** (2012). Dorsal anterior cingulate reflects multiple influences on learning rate in a dynamic environment. Presented at Society for Neuroscience 42nd Annual Meeting, New Orleans, LA.
37. Hartley, C. A., Kanen, J., McKenna, M. C., Casey, B. J., **Kable, J. W.**, Phelps, E. A., and Glatt, C. E. (2012). Serotonin transporter genotype modulates temporal discounting of monetary rewards in humans. Presented at Society for Neuroscience 42nd Annual Meeting, New Orleans, LA.
36. Pegors, T., Chatterjee, A., **Kable, J. W.**, Epstein, R. (2012). Neural activity during the subjective valuation of face and place attractiveness. Presented at Society for Neuroscience 42nd Annual Meeting, New Orleans, LA.
35. McGuire, J. T.* , and **Kable, J. W.** (2012). Ventromedial prefrontal cortex and decisions to sustain delay of gratification. Presented at Society for Neuroeconomics 9th Annual Meeting, Key Biscayne, FL.
34. Senecal, N.* , **Kable, J. W.**, Kim, B. K., and Zauberman, G. (2012). Neural activity in valuation regions during temporal judgments predicts individual discount rates. Presented at Society for Neuroeconomics 9th Annual Meeting, Key Biscayne, FL.
33. Kim, B. E.* , Reggi, J.* , and **Kable, J. W.** (2012). How simplifying strategies change in response to time pressure: behavioral and eye-tracking evidence. Presented at Society for Neuroeconomics 9th Annual Meeting, Key Biscayne, FL.
32. Mukherjee, D.* , and **Kable, J. W.** (2012). Relationship Between Negative Affect and Decision-Making in the West vs. East. Presented at Association for Psychological Science 24th Annual Meeting, Chicago, IL.
31. Atir, S., and **Kable, J. W.** (2012). Ventromedial prefrontal damage increases susceptibility to contextual effects on decision-making. Presented at Cognitive Neuroscience Society 19th Annual Meeting, Chicago, IL.
30. McGuire, J. T.* , and **Kable, J. W.** (2011). Evaluative neural mechanisms and delay of gratification. Presented at Society for Neuroscience 41st Annual Meeting, Washington, DC.

29. Senecal, N.*, McGuire, J. T.*, and **Kable, J. W.** (2011). Individual variation in value-responsive cortical topography. Presented at Society for Neuroscience 41st Annual Meeting, Washington, DC.
28. Kim, B. E.*, and **Kable, J. W.** (2011). Behavioral and Eye-tracking Evidence for an Attribute-Based Reduction Strategy in Response to Increasing Options. Presented at Society for Neuroeconomics 8th Annual Meeting, Evanston, IL.
27. McGuire, J. T.*, and **Kable, J. W.** (2011). Temporal expectations and limited willingness to wait for delayed outcomes. Presented at Society for Neuroeconomics 8th Annual Meeting, Evanston, IL.
26. Senecal, N.*, and **Kable, J. W.** (2011). Neural differentiation of decision value and decision confidence signals in human fMRI. Presented at Society for Neuroeconomics 8th Annual Meeting, Evanston, IL.
25. Wolf, D., Kantrowitz, J., Satterthwaite, T., Loughhead, J., Elliott, M., **Kable, J. W.**, Gur, R., Gur, R. (2011). Neuroimaging and neurobehavioral assessment of reward processing in schizophrenia. Presented at the 13th International Congress on Schizophrenia Research, Colorado Springs, CO.
24. McGuire, J. T.*, and **Kable, J. W.** (2011). Time interval statistics adaptively modulate decision makers' willingness to wait for delayed outcomes. Presented at Cognitive Science Society 33rd Annual Conference, Boston, MA.
23. Tsukayama, E., and **Kable, J. W.** (2011). Number, rather than economic value, drives the magnitude effect. Presented at Association for Psychological Science 23rd Annual Convention, Washington, D.C.
22. Senecal, N.*, and **Kable, J. W.** (2010). Exposure to economic arguments reduces delay discounting. Presented at Society for Neuroeconomics 7th Annual Meeting, Evanston, IL.
21. **Kable, J. W.**, and Stump, J. (2010). When you keep changing your mind: The neural basis of preference reversals. Presented at Society for Neuroeconomics 7th Annual Meeting, Evanston, IL.
20. Jiang, L.*, Kim, B. K., Zauberman, G, and **Kable, J. W.** (2010). Neural substrate of anticipatory time perception and time discounting. Presented at Cognitive Neuroscience Society 17th Annual Meeting, Montreal, Quebec.
19. Senecal, N.*, and **Kable, J. W.** (2010). Financial education reduces delay discounting. Presented at Cognitive Neuroscience Society 17th Annual Meeting, Montreal, Quebec.
18. Stump, J., and **Kable, J. W.** (2010). When you keep changing your mind: The neural basis of preference reversals. Presented at Cognitive Neuroscience Society 17th Annual Meeting, Montreal, Quebec.

17. **Kable, J. W.**, and Glimcher, P. W. (2007). Constraining the neural algorithm for intertemporal choice. Presented at Society for Neuroscience 37th Annual Meeting, San Diego, CA.
16. **Kable, J. W.**, and Glimcher, P. W. (2007). Constraining the neural algorithm for intertemporal choice. Presented at Society for Neuroeconomics 4th Annual Meeting, Nantasket Beach, MA.
15. **Kable, J. W.**, and Glimcher, P. W. (2007). Neural correlates of impulsivity during intertemporal choice. Presented at the Neural Systems for Social Behavior Meeting, Austin, TX.
14. **Kable, J. W.**, and Glimcher, P. W. (2006). Preference reversals versus consistency in intertemporal choice: Behavioral evidence and neural mechanisms. Presented at Society for Neuroscience 36th Annual Meeting, Atlanta, GA.
13. **Kable, J. W.**, and Glimcher, P. W. (2006). Time consistency in temporal discounting: Behavioral evidence and neural mechanisms. Presented at Society for Neuroeconomics 3rd Annual Meeting, Park City, UT.
12. **Kable, J. W.**, and Glimcher, P. W. (2005). Neural mechanisms for valuing immediate and delayed rewards in humans. Presented at Society for Neuroscience 35th Annual Meeting, Washington, DC.
11. Glimcher, P. W., and **Kable, J. W.** (2005). Neural mechanisms of temporal discounting in humans. Presented at Society for Neuroeconomics 2nd Annual Meeting, Kiawah Island, SC.
10. Chatterjee, A., **Kable, J. W.**, and Wu, D. (2005). Verbs, actions and motion: The role of the postero-lateral temporal cortex. Presented at Society for Research in Child Development Biennial Meeting, Atlanta, GA.
9. **Kable, J. W.**, and Chatterjee, A. (2005). The role of lateral occipitotemporal cortex in action recognition: Evidence from repetition suppression using fMRI. Presented at Cognitive Neuroscience Society 12th Annual Meeting, New York, NY.
8. **Kable, J. W.**, Kimberg, D. Y. and Chatterjee, A. (2004). Dealing with potential reaction time confounds in the interpretation of fMRI results. Presented at Cognitive Neuroscience Society 11th Annual Meeting, San Francisco, CA.
7. Kan, I. P., **Kable, J. W.**, Van Scoyoc, A., Chatterjee, A., and Thompson-Schill, S. L. (2004). Fractionating the left frontal response to tools: Dissociable effects of selection and action. Presented at Cognitive Neuroscience Society 11th Annual Meeting, San Francisco, CA.

6. **Kable, J. W.**, Kan, I. P., Wilson, A., Thompson-Schill, S. L., and Chatterjee, A. (2003). Are tools like animals or actions? Semantic attribute and grammatical class distinctions. Presented at Cognitive Neuroscience Society 10th Annual Meeting, New York, NY.
5. **Kable, J. W.**, Wilson, A., and Chatterjee, A. (2002). Neural substrates of verb knowledge: motion and movement. Presented at Cognitive Neuroscience Society 9th Annual Meeting, San Francisco, CA.
4. **Kable, J. W.**, Lease-Spellmeyer, J., and Chatterjee, A. (2001). A distributed representation of verb knowledge. Presented at Cognitive Neuroscience Society 8th Annual Meeting, New York, NY.
3. Shin, R.K., Wolk, D.A., **Kable, J.W.**, Chatterjee, A. (2001). Preattentive visual processing: A comparison of illusory contour perception and texture discrimination using fMRI. Presented at North American Neuro-Ophthalmology Society 27th Annual Meeting, Rancho Mirage, CA.
2. Danek, K. S., Vinson, P. N., **Kable, J. W.**, and Justice, J. B. (1997). The effect of phenethylamine para-substituents on dopamine transport at the human norepinephrine transporter measured by RDE voltammetry. Presented at Society for Neuroscience 27th Annual Meeting, New Orleans, LA.
1. Danek, K. S., **Kable, J. W.** and Justice, J. B. (1996). Induced efflux at the norepinephrine transporter by tyramines and phenethylamines. Presented at Society for Neuroscience 26th Annual Meeting, Washington, DC.