

BLAIR R. K. SHEVLIN

Postdoctoral Fellow | Center for Computational Psychiatry | Icahn School of Medicine at Mount Sinai
New York, NY | 267-266-2997 | blairshevlin@gmail.com

Current Position

Postdoctoral fellow Center for Computational Psychiatry, Icahn School of Medicine at Mount Sinai, NYC, USA
Mentors: Xiaosi Gu, Laura Berner

Education

The Ohio State University, Columbus, OH. May 2022

Ph.D. in Decision Psychology

Towson University, Towson, MD. May 2017

M.A. in Experimental Psychology

Goucher College, Baltimore, MD. May 2013

B.A. in Psychology, Magna Cum Laude

Minors in Cognitive Studies and Philosophy

Working Papers

Shevlin, B. R. K., Fu, Q. X., Batten, S. R., Kopell, B. H., Davis, A. N., Hefflin, M., Heisig, S., Rozell, C. J., Kato, A., Kulkarni, K. R., Choi, K. S., O'Neill, S., Nauvell, T., Lohrenz, T., White, J. P., Figeo, M., Twomey, T., Moran, R., Bang, D., Hartle, A., Barbosa, L., Howe, M., Saez, I., Montague, P. R., Mayberg, H., & Gu, X. (In preparation). *Deep brain stimulation to the subcallosal cingulate induces context-dependent changes in dopamine and serotonin in humans with treatment-resistant depression.*

Shevlin, B. R. K., Krajbich, I., & Steiner, J. (In preparation). *Attention, outside options, and overall value.*
<https://osf.io/dx4r9>

Publications

Shevlin, B. R. K., Giannini, L., Steinglass, J. E., Foerde, K., Lloyd, C., Hagan, K., & Berner, L.A. (Accepted). Computations underlying food choice among individuals with bulimia nervosa. *eLife*.
<https://doi.org/10.31219/osf.io/m85ed>

Shevlin, B. R. K., Gwinn, R., Makwana, A., & Krajbich, I. (Accepted). Overt visual attention modulates value and decision-related signals in ventral and dorsal medial prefrontal cortex. *eLife*.
<https://doi.org/10.1101/2024.10.25.620227>

Shevlin, B. R. K., Chester, M. A., Qiu, J. L., Lou, S., & Berner, L. A. (Accepted). Self-regulation in eating disorders. In: *Handbook of the Neurobiology of Eating Disorders*. Wierenga, C. E. & Steinglass, J. (Eds). Oxford: Oxford University Press.

Berner, L. A. & **Shevlin, B. R. K.** (2024). Restoring weight and brain function: Intrinsic neural activity and connectivity alterations as state markers of anorexia nervosa. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*. <https://doi.org/10.1016/j.bpsc.2024.02.007>

Shevlin, B. R. K., Smith, S. M., Hausfeld, J., & Krajbich, I. (2022). Reply to Pirrone and Tsetsos: Robust evidence for enhanced high-value sensitivity. *Proceedings of the National Academy of Sciences*, 119(36), e2209521119.

Shevlin, B. R. K., Smith, S. M., Hausfeld, J., & Krajbich, I. (2022). High-value decisions are fast and accurate, inconsistent with diminishing value sensitivity. *Proceedings of the National Academy of Sciences*, 119(6), e2101508119.

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Shevlin, B. R. K., & Krajbich, I. (2021). Attention as a source of variability in decision-making: Accounting for overall-value effects with diffusion models. *Journal of Mathematical Psychology, 105*, 102594.
<https://doi.org/10.1016/j.jmp.2021.102594>

Shevlin, B. R. K., & Goodwin, K. A. (2019). Past behavior and the decision to text while driving among young adults. *Transportation Research Part F: Psychology and Behaviour, 60*, 58-67.
<https://doi.org/10.1016/j.trf.2018.09.027>

Invited Talks

The neurocomputations underlying compulsive-use disorders

2024 – *Invited talk* – University of Gothenburg, Sweden.

2024 – *Invited talk* – UC Luvain, Belgium.

2024 – *Invited talk* – University of Amsterdam, Netherlands.

2024 – *Invited talk* – ISSM, USA.

The role of value in the economic decision-making process

2022 – *Invited talk* – University of Toronto, Canada.

2022 – *Invited talk* – University of Zurich, Switzerland.

2022 – *Invited talk* – Brown University, USA.

Introduction to Decision-Making and the aDDM

2021 – *Guest lecture* – University of Gothenburg, Sweden.

Explicit value cues alter the decision process

2019 – *International Workshop on Brain and Managerial Decision Making* – Zhejiang University, China.

2018 – *Invited talk* – Thurgau Institute of Economics, Switzerland.

Cognitive reflection in undergraduate: Relationships with educational experiences and metacognition

2013 – *Student Symposium* – Goucher College, USA.

Conference Presentations

Shevlin, B. R. K., Luzyanin, D., Hickey, C., & Konovalov, A. *Bottom-up and top-down attention in value-based choice.*

2024 – Society for Neuroeconomics Annual Meetings – Cascais, Portugal.

2024 – Cognitive Computational Neuroscience, Boston, MA, USA.

Shevlin, B. R. K., Krugel, A., Viore, V., Gu, X., & Berner, L. A. *Assessing the computational mechanisms underlying reward discrimination associated with compulsive eating.*

2024 – Computational Psychiatry Conference, Minneapolis, MN, USA.

Shevlin, B. R. K., Gianini, L., Steinglass, J. E., Foerde, K., Lloyd, C., Hagan, K., & Berner, L. A. *Negative affect and the computations underlying food choice in bulimia nervosa.*

2023 – American College of Neuropsychopharmacology Annual Meeting – Tampa, FL, USA.

2023 – Society for Neuroeconomics Annual Meeting – Vancouver, BC, Canada.

Shevlin, B. R. K., Heflin, M., Fiore, V. G., & Gu, X. *Resilience to childhood trauma facilitates social control.*

2023 – The Friedman Brain Institute Annual Neuroscience Retreat – New York City, NY, USA.

2023 – Computational Psychiatry Conference – Dublin, Ireland.

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Fernandez, K., **Shevlin, B. R. K.**, Ratcliff, R., & Krajbich, I. *Exploring the feasibility of across-trial variability in boundary separation.*

2023 – Annual Meeting of the Society for Mathematical Psychology – Amsterdam, Netherlands.

McNeil, N., **Shevlin, B. R. K.**, & Krajbich, I. *What causes enhanced processing of high-value items?*

2022 – Annual Meeting of the Cognitive Science Society – Toronto, Ontario, Canada.

Shevlin, B. R. K., Yang, X., & Krajbich, I. *Attention and choice: A multi-stage process?*

2021 – Society for Neuroeconomics Annual Meeting – Virtual.

2021 – Interdisciplinary Symposium on Decision Neuroscience – Virtual.

2021 – European Group of Process Tracing Studies – Virtual.

2020 – Society for Neuroeconomics Annual Meeting – Virtual.

Shevlin, B. R. K., & Krajbich, I. *Attention as a source of overall value effects in diffusion models.*

2020 – Annual Meeting of the Society for Mathematical Psychology – Virtual.

Shevlin, B. R. K., Smith, S., Hausfeld, J., & Krajbich, I. *Explicit value cues alter the decision process.*

2019 – Society for Neuroeconomics Annual Meeting – Dublin, Ireland.

2018 – Society for Judgment and Decision Making Annual Conference – New Orleans, LA, USA.

2018 – Society for Neuroeconomics Annual Meetings – Philadelphia, PA, USA.

Shevlin, B. R. K. *Cognitive abilities associated with changing perceptions of distracted-driving risk.*

2017 – Psychonomic Society Annual Meeting – Vancouver, BC, Canada.

Shevlin, B. R. K. *Cognitive abilities associated with rational decision making.*

2016 – Psychonomic Society Annual Meeting – Boston, MA, USA.

2016 – Towson University Student Research Expo – Towson, MD, USA

Shevlin, B. R. K., McCabe J. A. *Relationship between responses and reaction times on the Cognitive Reflection Test.*

2016 – Eastern Psychological Association – New York City, NY, USA.

Shevlin, B. R. K., McCabe J. A. *Cognitive reflection in undergraduates: Relationships with educational experiences and metacognition.*

2013 – Eastern Psychological Association – New York City, NY, USA.

McCabe, J. A., Chefitz, L. S., **Shevlin, B. R. K.**, & Turpin, S. *Hand gestures and mnemonics: Effects of viewing and enacting.*

2012 – Eastern Psychological Association – Pittsburgh, PA, USA.

Research Grants

Decision Sciences Collaborative, The Ohio State University (\$3000). 2020.

Awards/Honors:

The Ohio State University, Distinguished University Fellowship. 2017-2018, 2021-2022

Towson University, Distinguished Graduate Student Award. 2017.

Goucher College, Lewent Fund for Summer Research in the Sciences. 2012.

Goucher College, Dean's Scholarship. 2009-2013.

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Teaching Experience

Instructor: New York Computational Psychiatry Workshop. New York, NY, USA. 2024.

Instructor: Ohio Supercomputing Center Summer Institute, Columbus, OH, USA. 2019.

Course Assistant: The Ohio State University Psychology Department, Columbus, OH, USA

Psychology 1100H (Honors Introduction to Psychology). Aug. 2020 – Dec. 2020 (1 semester)

Psychology 3331H (Honors Abnormal Psychology). Aug. 2020 – Dec. 2020 (1 semester)

Psychology 3340H (Honors Introduction to Development Psychology). Aug. 2020 – Dec. 2020 (1 semester)

Psychology 4508 (Judgment and Decision Making). Jan. 2019 – May 2020 (3 semesters)

Psychology 5870 (Neuroeconomics & Decision Neuroscience). Jan. 2019 – May 2019 (1 semester)

Psychology 3550 (Psychology of Childhood Development). Aug. 2018 – Dec. 2018 (1 semester)

Teaching Assistant: Towson University Psychology Department, Towson, MD, USA

Psychology 212 (Behavioral Statistics). Jan. 2017 – May 2017 (1 semester)

Ad-hoc reviewer

Cognition

Cognitive, Affective, and Behavioral Neuroscience

Learning and Memory

Transportation Research Part F: Psychology and Behaviour

Professional Experience

Graduate Assistant. 2015 – 2017.

Towson University, Towson, MD, USA.

Supervisor: Justin Buckingham, PhD.

Research Associate. 2015 – 2017.

Acclaro Research Solutions, Inc. Baltimore, MD, USA.

Supervisor: Katherine Fiedler, PhD.

Research Assistant. 2014 – 2015.

TransAnalytics, Quakertown, PA, USA.

Supervisor: Loren Staplin, PhD.

AmeriCorps VISTA. 2013 – 2014.

Habitat for Humanity of the Chesapeake, Baltimore, MD, USA.

Supervisor: Leila Kohler-Frueh

Research Assistant. 2012 – 2013.

Behavioral Pharmacology Research Unit, Johns Hopkins University, Baltimore, MD, USA.

Supervisor: Miriam Mintzer, PhD

Leadership & Activities

OSU Psychology Graduate Student Diversity, Equity, and Inclusion Committee.

Co-chair: 2020-2022.

Founding member: 2018.

OSU Decision Psychology Student Association.

President. 2019-2022.

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Goucher Prison Education Partnership.

Tutor. 2013

Goucher College Ultimate Frisbee Club.

President. 2011-2013.

Member. 2009-2013.

Professional Affiliations

Association for Psychological Science

Psi Chi Psychology Honors Society

Psychonomic Society

Society for Mathematical Psychology

Society for Neuroeconomics

Society for Judgement and Decision Making