

# **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 | <https://blairshevlin.github.io/>

## Current Position

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

**Affiliated research fellow** Computational Psychiatry Unit, Yale School of Medicine, New Haven, CT, USA

## 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, ..., Saez, I., Montague, P. R., Mayberg, H., & Gu, X. (Under review at Nature). *Dopamine and serotonin transients predict depressive symptom relief following deep brain stimulation of human subcallosal cingulate cortex*. <https://www.biorxiv.org/content/10.64898/2025.11.28.691184v1>

Fu, Q. X., **Shevlin, B. R. K.**, Davis, A. N., Hefflin, M., Kulkarni, K. R., Rhoads, S. A., Mayberg, H. S., & Gu, X. (Under review at Scientific Reports). *Social decision-making reveals stable effects of depression, independent of anhedonia*. [https://osf.io/preprints/psyarxiv/rtda4\\_v1](https://osf.io/preprints/psyarxiv/rtda4_v1)

Berner, L. A., Dai, J., **Shevlin, B. R. K.**, Heffner, J., Forester, G., Schaefer, L., Johnson, J. S., & Viranda, T. (Submitted). *Emotion prediction errors influence urges and behavior among individuals with binge eating*.

**Shevlin, B. R. K.**, Fernandez, K., Ratcliff, R., & Krajbich, I. (In preparation). *A little goes a long way: Fitting one-shot decisions with cognitive models*. [https://osf.io/preprints/psyarxiv/3ykpu\\_v1](https://osf.io/preprints/psyarxiv/3ykpu_v1)

**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.**, Chester, M. A., Qiu, J. L., Lou, S., & Berner, L. A. (2025). Self-regulation in eating disorders. In: *Handbook of the Neurobiology of Eating Disorders*. Wierenga, C. E. & Steinglass, J. (Eds). Oxford: Oxford University Press.

**Shevlin, B. R. K.**, Giannini, L., Steinglass, J. E., Foerde, K., Lloyd, C., Hagan, K., & Berner, L.A. (2025). Computations underlying food choice among individuals with bulimia nervosa. *eLife*. [https://doi.org/10.31219/osf.io/m85ed\\_v2](https://doi.org/10.31219/osf.io/m85ed_v2)

**Shevlin, B. R. K.**, Gwinn, R., Makwana, A., & Krajbich, I. (2025). Overt visual attention modulates value and decision-related signals in ventral and dorsal medial prefrontal cortex. *eLife*. <https://doi.org/10.7554/eLife.103846.1>

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>

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**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.

**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

Using response times to improve cognitive models  
2025 – *IMPACT-MH seminar* – Yale School of Medicine, USA.

Understanding brain function through intracranial recordings in humans  
2025 – *Symposium co-chair* – Japanese Neuroscience Society, Japan.

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.**, Fernandez, K., Berner, L.A. *Distinct food attribute representations emerge across binge-type eating disorders*.  
2025 – Society for Neuroeconomics Annual Meetings – Boston, MA, USA.

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J., Nusrat, **Shevlin, B. R. K.**, ... Sweis, B. *Neuroeconomically dissociable decision-making computations are altered by Shank3 haploinsufficiency*

2025 – Society for Neuroscience – San Diego, CA, USA.

2025 – Society for Neuroeconomics Annual Meetings – Boston, MA, USA.

Fu, Q. X., **Shevlin, B. R. K.**, Davis, A. N., Rhoads, S. A., Kulkarni, K. R., Mayberg, H. S., & Gu, X. *Longitudinal stability of the effect of depression on social decision-making*.

2025 – Proceedings of the Annual Meeting of the Cognitive Science Society – San Francisco, CA.

**Shevlin, B. R. K.** ... Gu, X. *Deep brain stimulation to the subcallosal cingulate induces context-dependent changes in dopamine and serotonin in humans with treatment-resistant depression*.

2025 – Japanese Neuroscience Society – Niigata, Japan.

2025 – InterfaceNeuro – Atlanta, GA, USA.

**Shevlin, B. R. K.**, A cognitive model of the go/no-go task links to symptom severity in bulimia nervosa.

2025 – Society for Biological Psychiatry Annual Meeting – Toronto, CA.

**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 Meeting – 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.

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*.

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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:

Travel Award, Nakatani Foundation for Advancement of Measuring Technologies in Biomedical Engineering, 2025  
Symposium Grant, Japanese Neuroscience Society, 2025

1<sup>st</sup> Place Poster Award, InterfaceNeuro, 2025

Travel Award, InterfaceNeuro, 2025

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

Distinguished Graduate Student Award, Towson University, 2017.

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

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

### Teaching Experience

**Instructor:** New York Computational Psychiatry Workshop. New York, NY, USA. 2024-2025.

**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)

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**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)

## Current Mentoring

Qi Xiu Fu (2022 – Present). Icahn School of Medicine PhD student.

Kianté Fernandez (2021 – Present). University of California Los Angeles PhD student.

## Past Mentoring

Leah Asinovski (2024). Summer Program in Computational Psychiatry Education high school intern.

Iyiola Ajanaku (2024). Summer Program in Computational Psychiatry Education high school intern.

Julia Hammerman (2023). Summer Program in Computational Psychiatry Education high school intern.

Olivia Rome (2023). Summer Program in Computational Psychiatry Education high school intern.

Juna Kawai-Yue (2023). Barnard College undergraduate student.

Atmana Joshi (2022-2024). Icahn School of Medicine MS student.

Claire Sun (2022-2023). Icahn School of Medicine research assistant.

Nicholas McNeal (2019 – 2022). Ohio State undergraduate student.

Josh Hascher (2018 – 2022). Ohio State undergraduate student.

## Ad-hoc reviewer

BMC Psychiatry

Cognition

Cognitive, Affective, and Behavioral Neuroscience

Learning and Memory

Journal of Experimental Psychology: General

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

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### Leadership & Activities

Center for Computational Psychiatry Representative for Trainees.

Representative. 2023-Current.

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

Co-chair. 2020-2022.

Founding member. 2018.

OSU Decision Psychology Student Association.

President. 2019-2022.

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