James **Curley**

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Publications

Journal Articles

1. Curley, J. P., & Champagne, F. A. (2023). Shaping the development of complex social behavior. *Annals of the New York Academy of Sciences*, *1530*(1), 46–63. `https://doi.org/10.1111/nyas.15076`

2. Turetsky, K. M., Curley, J. P., Carter, A. B., & Purdie-Greenaway, V. (2022). Explaining the gender gap in negotiation performance: Social network ties outweigh internal barriers. *Journal of Social Issues*, *79*(1), 50–78. `https://doi.org/10.1111/josi.12536`

3. Ward, O. G., Wu, J., Zheng, T., Smith, A. L., & Curley, J. P. (2022). Network hawkes process models for exploring latent hierarchy in social animal interactions. *Journal of the Royal Statistical Society Series C: Applied Statistics*, *71*(5), 1402–1426. `https://doi.org/10.1111/rssc.12581`

4. Wu, J., Ward, O. G., Curley, J., & Zheng, T. (2022). Markov-modulated hawkes processes for modeling sporadic and bursty event occurrences in social interactions. *The Annals of Applied Statistics*, *16*(2). `https://doi.org/10.1214/21-aoas1539`

5. Lee, W., Dwortz, M. F., Milewski, T. M., Champagne, F. A., & Curley, J. P. (2022). Social status mediated variation in hypothalamic transcriptional profiles of male mice. *Hormones and Behavior*, *142*, 105176. `https://doi.org/10.1016/j.yhbeh.2022.105176`

6. Padilla-Coreano, N., Batra, K., Patarino, M., Chen, Z., Rock, R. R., Zhang, R., Hausmann, S. B., Weddington, J. C., Patel, R., Zhang, Y. E., Fang, H.-S., Mishra, S., LeDuke, D. O., Revanna, J., Li, H., Borio, M., Pamintuan, R., Bal, A., Keyes, L. R., … Tye, K. M. (2022). Cortical ensembles orchestrate social competition through hypothalamic outputs. *Nature*, *603*(7902), 667–671. `https://doi.org/10.1038/s41586-022-04507-5`

7. Milewski, T. M., Lee, W., Champagne, F. A., & Curley, J. P. (2022). Behavioural and physiological plasticity in social hierarchies. *Philosophical Transactions of the Royal Society B: Biological Sciences*, *377*(1845). `https://doi.org/10.1098/rstb.2020.0443`

8. Strauss, E. D., DeCasien, A. R., Galindo, G., Hobson, E. A., Shizuka, D., & Curley, J. P. (2022). DomArchive: A century of published dominance data. *Philosophical Transactions of the Royal Society B: Biological Sciences*, *377*(1845). `https://doi.org/10.1098/rstb.2020.0436`

9. Dwortz, M. F., Curley, J. P., Tye, K. M., & Padilla-Coreano, N. (2022). Neural systems that facilitate the representation of social rank. *Philosophical Transactions of the Royal Society B: Biological Sciences*, *377*(1845). `https://doi.org/10.1098/rstb.2020.0444`

10. Strauss, E. D., Curley, J. P., Shizuka, D., & Hobson, E. A. (2022). The centennial of the pecking order: Current state and future prospects for the study of dominance hierarchies. *Philosophical Transactions of the Royal Society B: Biological Sciences*, *377*(1845). `https://doi.org/10.1098/rstb.2020.0432`

11. Chase, I. D., Coelho, D., Lee, W., Mueller, K., & Curley, J. P. (2022). Networks never rest: An investigation of network evolution in three species of animals. *Social Networks*, *68*, 356–373. `https://doi.org/10.1016/j.socnet.2021.09.002`

12. Lee, W., Milewski, T. M., Dwortz, M. F., Young, R. L., Gaudet, A. D., Fonken, L. K., Champagne, F. A., & Curley, J. P. (2022). Distinct immune and transcriptomic profiles in dominant versus subordinate males in mouse social hierarchies. *Brain, Behavior, and Immunity*, *103*, 130–144. `https://doi.org/10.1016/j.bbi.2022.04.015`

13. Lee, W., Dowd, H. N., Nikain, C., Dwortz, M. F., Yang, E. D., & Curley, J. P. (2021). Effect of relative social rank within a social hierarchy on neural activation in response to familiar or unfamiliar social signals. *Scientific Reports*, *11*(1). `https://doi.org/10.1038/s41598-021-82255-8`

Preprints

1. Lee, W., Milewski, T. M., Dwortz, M. F., Young, R. L., Gaudet, A. D., Fonken, L. K., Champagne, F. A., & Curley, J. P. (2021). *Distinct inflammatory and transcriptomic profiles in dominant versus subordinate males in mouse social hierarchies*. `https://doi.org/10.1101/2021.09.04.458987`

Books

Book Chapters

1. Curley, J. P., Mashoodh, R., & Champagne, F. A. (2023). Transgenerational epigenetics. In *Handbook of epigenetics* (pp. 465–478). Elsevier. `https://doi.org/10.1016/b978-0-323-91909-8.00023-2`

Professional Presentations

Behavioral and Physiological Plasticity in Social Hierarchies

DEPARTMENT OF PSYCHOLOGY, UT AUSTIN *2023*

Knowing who's boss: how social status impacts the brain and health

TEXAS EXES ASSOCIATION, UT AUSTIN *2023*

Behavioral & physiological plasticity in mouse social hierarchies

UNIVERSITY OF DELAWARE *2022*

Behavioral, physiological and neurobiological plasticity in mouse social hierarchies

VIRTUAL *2021*

Network dynamics of social hierarchy formation

VIRTUAL *2021*

Power differentials in Social Hierarchies: Why and how they emerge and their consequences for behavior and health

VIRTUAL *2021*

Conference Abstracts

Neural correlates of behavior during novel large group interactions in the highly social spiny mouse (Acomys cahirinus)

SOCIETY FOR NEUSOCIENCE *2023*

Metabolic profiling of dominant and subordinate male mice living in social hierarchies

SOCIETY FOR BEHAV *2023*

Real-time assessment of volatile organic compound emissions from freely behaving mice in dominance hierarchies

SOCIETY FOR BEHAVIORAL NEUROENDOCRINOLOGY *2023*

Single-cell transcriptomics of the mouse medial preoptic area reveals sex-dependent molecular signatures of social dominance

SOCIETY FOR BEHAVIORAL NEUROENDOCRINOLOGY *2023*

Imaging neural representations of social rank using catFISH

SOCIETY FOR BEHAVIORAL NEUROENDOCRINOLOGY *2022*

Metabolic and endocrine profiles associated with activity patterns and social status during the formation and maintenance of mouse social hierarchies

SOCIETY FOR BEHAVIORAL NEUROENDOCRINOLOGY *2022*

A cortical-hypothalamic circuit decodes social rank and promotes dominance behavior

COMPUTATIONAL AND SYSTEMS NEUROSCIENCE (COSYNE) ANNUAL MEETING. *2021*

Cortical ensembles decode social rank and promote dominance behavior via hypothalamic projections

SOCIETY FOR NEUROSCIENCE ANNUAL MEETING *2021*

Distinct immunophenotypic and transcriptomic responses to social status in mouse social hierarchies

SOCIETY FOR SOCIAL NEUROSCIENCE ANNUAL MEETING *2021*

Social Movements: mapping spatial dynamics in mouse social hierarchies using RFID tracking

SOCIETY FOR NEUROSCIENCE ANNUAL MEETING *2021*

Social ascension and descension in mouse social hierarchies lead to rapid changes in plasma corticosterone and neural gene expression

SOCIETY FOR SOCIAL NEUROSCIENCE ANNUAL MEETING *2021*

Honors

President's Associates Teaching Excellence Award, UT Austin
Austin, US
UT Austin
2022

Dr. Wendy Domjan Excellence in Teaching Award. Department of Psychology, UT Austin
Austin, US
UT Austin
2021

Affordable Education Champion. Awarded by Senate of College Councils and UT Libraries, UT Austin
Austin, US
UT Austin
2021

Funding

Neural processing of status signals in social hierarchies
NIH,
Funding: $275,000
2023 - 2025

Encouraging Data Sharing and Reuse in the Field of Collective Behavior through Hackathon-Style Collaborative Workshops
Directorate for Computer & Information Science & Engineering, 1839022
Funding: $25,000
2018 - 2022

Service

Department of Psychology, UT Austin
Austin, US
Teaching Chats Group
2024 - present

Department of Psychology, UT Austin
Austin, US
Job Search Committee member for Assistant Professor of Instruction in Data Science
2024 - present

COLA, University of Texas
Austin, US
Dean's Distinguished Graduate Award Selection Committee
2024 - present

Neuroscience Department, UT Austin
Austin, US
PhD Committee Member (Britt Mardis)
2023 - present

UT Austin Vice-Chair IACUC
Austin, US
Vice-Chair
2023 - present

UT Austin
Austin, US
Course Designer and Developer.
2023 - present

UT Austin
Austin, US
Head of Behavioral Neuroscience
2022 - present

UT Austin
Austin, US
Co-Director of Behavioral Data Science Initiative
2022 - present

European Brain and Behaviour Society
Bordeaux, FR

2022 - present

UT Austin
Austin, US
Committee Member, University Awards Committee
2022 - present

UT Austin
Austin, US
Presenter at Prehealth-II FIG and Transfer-Year Interest Groups TRIG
2021 - present

Liberal Arts UG Research Scholarship.
Austin, US

2021 - present

Department of Psychology UT Austin
Austin, US
Psychology Assessment Committee (Evaluates Psychology Curriculum).
2021 - present

UT Austin   *Austin, US*

Member COLA Data Science Task Force.   *2021 - present*

Department of Psychology UT Austin   *Austin, US*

Co-coordinator, Psychology Department Data Science Summer Internship Program.   *2021 - present*

Department of Psychology   *Austin, US*

Presenter of Introduction to Git and R programming   *2021 - present*

Department of Psychology UT Austin   *Austin, US*

Committee Member, Data Science Task Force, Department of Psychology.   *2020 - present*

UT Austin   *Austin, US*

IACUC member   *2019 - present*

Department of Psychology UT Austin   *Austin, US*

Committee Member, Graduate Program Taskforce Committee.   *2019 - present*

Department of Psychology UT Austin   *Austin, US*

Workshop on R programming and open-science, Graduate Bootcamp, Department of Psychology *2019 - present*

Journal Reviewing   *Austin, US*

Ad-hoc reviewer for multiple journals   *2019 - present*

National Science Foundation Division of Integrative Organismal Systems   *Arlington, US*

Ad-hoc grant reviewer   *2019 - present*

PeerJ (United States)   *San Diego, US*

Associate Editor   *2018 - present*

Scientists Center for Animal Welfare   *San Antonio, US*

Conference on Animal Welfare in Scientific Research   *2023 - 2023*

**Encouraging data sharing and reuse in the field of collective behavior through
hackathon-collaborative workshops**   *Austin, US*

Organizer of Workshop   *2022 - 2023*

Society for Social Neuroscience   *Austin, US*

Board Member   *2017 - 2023*

The Royal Society of Biology   *London, GB*

Editor of Special Issue.   *2021 - 2022*

Department of Psychology UT Austin   *Austin, US*

Co-Chair Job Search Committee for Assistant Professor in Computational Approaches to Social Behavior *2021 - 2021*

Department of Psychology UT Austin   *Austin, US*

Job Search Committee member for Assistant Professor of Instruction in Data Science.   *2021 - 2021*

UT Austin   *Austin, US*

Presenter at Texas Students Psychological Association.   *2021 - 2021*

UT Austin Johnson & Johnson WISTEM2D program.   *Austin, US*

Grant Reviewer   *2020 - 2021*

Society for Social Neuroscience   *Austin, US*

Program and Planning Committee Chair   *2020 - 2021*

Mentoring and Teaching

Mentoring

Psychology

PhD Committee Member (Rebecka Hahnel-Peeters)   *2023 - present*

Landon Porter

PhD Committee Member Department of Biology   *2023 - present*

Sydney Seese

Dissertation Supervisor

2022 - present

Kathryn Mahach

Dissertation Supervisor

2022 - present

Koll Rada

Dissertation Supervisor

2022 - present

Sunishka Thakur

PhD Committee Member Department of Biology

2022 - present

Luke Larter

PhD Committee Member Department of Biology

2021 - present

Shelby Towers

PhD Committee Member Neuroscience Department

2021 - present

Emily Lessig

PhD Committee Member Department of Biology

2021 - present

Maddie Dwortz

Dissertation Supervisor

2019 - present

Kevin Moran

PhD Committee Member Department of Psychology

2019 - present

Isaac Crews

Dissertation Supervisor

2018 - present

Tyler Marie Milewski

Dissertation Supervisor

2018 - present

Julia Chafkin

PhD Committee Member Department of Psychology

2019 - 2024

Kylee Smith

PhD Committee Member Department of Psychology

2018 - 2024

Kaila Parker

PhD Committee Member Department of Psychology

2018 - 2024

James Madole

PhD Committee Member Department of Psychology

2022 - 2022

Patrick Durkee

PhD Committee Member Department of Psychology

2021 - 2021

Laura Agee

PhD Committee Member Department of Psychology

2021 - 2021

Teaching

PSY 341K Behavioral Data Science in Industry

Co-Instructor

2024 - present

PSY 120R "R Programming for Behavioral Sciences"

Instructor

2021 - present

UGS 302 "Being Social"

Instructor

2021 - present

PSY 317L "Introduction to Statistics for the Behavioral Sciences".

Instructor

2020 - present

Behavioral Neuroscience Seminar

Organizer, Spring & Fall semesters

2022 - 2023