

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-aos1539>
5. Lee, W., Dworz, 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. Dworz, 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., Dowd, H. N., Nikain, C., Dworz, 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., Dworz, 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

CO-COORDINATOR, PSYCHOLOGY DEPARTMENT DATA SCIENCE SUMMER INTERNSHIP PROGRAM.

Austin, US

2021 - present

Department of Psychology

PRESENTER OF INTRODUCTION TO GIT AND R PROGRAMMING

Austin, US

2021 - present

Department of Psychology UT Austin

COMMITTEE MEMBER, DATA SCIENCE TASK FORCE, DEPARTMENT OF PSYCHOLOGY.

Austin, US

2020 - present

UT Austin

IACUC MEMBER

Austin, US

2019 - present

Department of Psychology UT Austin

COMMITTEE MEMBER, GRADUATE PROGRAM TASKFORCE COMMITTEE.

Austin, US

2019 - present

Department of Psychology UT Austin

WORKSHOP ON R PROGRAMMING AND OPEN-SCIENCE, GRADUATE BOOTCAMP, DEPARTMENT OF PSYCHOLOGY

Austin, US

2019 - present

Journal Reviewing

AD-HOC REVIEWER FOR MULTIPLE JOURNALS

Austin, US

2019 - present

National Science Foundation Division of Integrative Organismal Systems

AD-HOC GRANT REVIEWER

Arlington, US

2019 - present

PeerJ (United States)

ASSOCIATE EDITOR

San Diego, US

2018 - present

Scientists Center for Animal Welfare

CONFERENCE ON ANIMAL WELFARE IN SCIENTIFIC RESEARCH

San Antonio, US

2023 - 2023

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

ORGANIZER OF WORKSHOP

Austin, US

2022 - 2023

Society for Social Neuroscience

BOARD MEMBER

Austin, US

2017 - 2023

The Royal Society of Biology

EDITOR OF SPECIAL ISSUE.

London, GB

2021 - 2022

Department of Psychology UT Austin

CO-CHAIR JOB SEARCH COMMITTEE FOR ASSISTANT PROFESSOR IN COMPUTATIONAL APPROACHES TO SOCIAL BEHAVIOR

Austin, US

2021 - 2021

Department of Psychology UT Austin

JOB SEARCH COMMITTEE MEMBER FOR ASSISTANT PROFESSOR OF INSTRUCTION IN DATA SCIENCE.

Austin, US

2021 - 2021

UT Austin

PRESENTER AT TEXAS STUDENTS PSYCHOLOGICAL ASSOCIATION.

Austin, US

2021 - 2021

UT Austin Johnson & Johnson WISTEM2D program.

GRANT REVIEWER

Austin, US

2020 - 2021

Society for Social Neuroscience

PROGRAM AND PLANNING COMMITTEE CHAIR

Austin, US

2020 - 2021

Mentoring and Teaching

MENTORING

Psychology

PHD COMMITTEE MEMBER (REBECCA 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