James **Curley**

curley@utexas.edu

Publications

Journal Articles

1. 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
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*. https://doi.org/10.1111/josi.12536
3. 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
4. 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
5. 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
6. 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
7. 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
8. 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
9. 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
10. 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
11. 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 inflammatory and transcriptomic profiles in dominant versus subordinate males in mouse social hierarchies. *Brain Behavior and Immunity*. https://doi.org/10.1101/2021.09.04.458987
12. 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
13. Turetsky, K. M., Purdie-Greenaway, V., Cook, J. E., Curley, J. P., & Cohen, G. L. (2020). A psychological intervention strengthens students' peer social networks and promotes persistence in STEM. *Science Advances*, *6*(45). https://doi.org/10.1126/sciadv.aba9221
14. Beery, A. K., Holmes, M. M., Lee, W., & Curley, J. P. (2020). Stress in groups: Lessons from non-traditional rodent species and housing models. *Neuroscience & Biobehavioral Reviews*, *113*, 354–372. https://doi.org/10.1016/j.neubiorev.2020.03.033

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
2. Padilla-Coreano, N., Batra, K., Patarino, M., Chen, Z., Rock, R., Zhang, R., Hausmann, S., Weddington, J., Patel, R., Zhang, Y., Fang, H.-S., Keyes, L., Libster, A., Matthews, G., Curley, J., Fiete, I., Lu, C., & Tye, K. (2020). *A cortical-hypothalamic circuit decodes social rank and promotes dominance behavior*. https://doi.org/10.21203/rs.3.rs-94115/v1

Books

1. Curley, J. (2020). *Introduction to statistics for the behavioral sciences using r*. https://jalapic.github.io/introstats/.

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 & 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*

Behavioral, physiological and neurobiological plasticity in mouse social hierarchies

Virtual *2020*

Effective Data Visualization for Behavioral Neuroscientists

UT Austin *2020*

Social information use in mouse social hierarchies

Virtual *2020*

Conference Abstracts

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*

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

UT Austin — *2021*

Dr. Wendy Domjan Excellence in Teaching Award. Department of Psychology, 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

UT Austin — *Austin, US*

Course Designer and Developer. — *2023 - present*

Department of Biology — *Austin, US*

PhD Committee Member — *2023 - present*

UT Austin — *Austin, US*

Head of Behavioral Neuroscience — *2022 - present*

Department of Biology — *Austin, US*

PhD Committee Member — *2022 - present*

UT Austin — *Austin, US*

Committee Member, University Awards Committee — *2022 - present*

UT Austin — *Austin, US*

Co-Director of Behavioral Data Science Initiative — *2022 - present*

European Brain and Behaviour Society — *Bordeaux, FR*

2022 - present

Department of Biology — *Austin, US*

PhD Committee Member — *2021 - present*

Neuroscience Department — *Austin, US*

PhD Committee Member — *2021 - present*

Department of Psychology — *Austin, US*

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

Department of Psychology UT Austin — *Austin, US*

Psychology Assessment Committee (Evaluates Psychology Curriculum). — *2021 - present*

Department of Psychology UT Austin — *Austin, US*

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

UT Austin — *Austin, US*

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

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

Department of Psychology *Austin, US*

PhD Committee Member *2019 - present*

UT Austin *Austin, US*

IACUC member *2019 - present*

Department of Psychology UT Austin *Austin, US*

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

Department of Psychology UT Austin *Austin, US*

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

Journal Reviewing *Austin, US*

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

Department of Psychology *Austin, US*

PhD Committee Member *2018 - present*

PeerJ (United States) *San Diego, US*

Associate Editor *2018 - present*

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

Organizer of Workshop *2022 - 2023*

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

Ad-hoc grant reviewer *2019 - 2023*

Society for Social Neuroscience *Austin, US*

Board Member *2017 - 2023*

The Royal Society of Biology *London, GB*

Editor of Special Issue. *2021 - 2022*

UT Austin *Austin, US*

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

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 Johnson & Johnson WISTEM2D program. *Austin, US*

Grant Reviewer *2020 - 2021*

Society for Social Neuroscience *Austin, US*

Program and Planning Committee Chair *2020 - 2021*

National Science Foundation *VA, US*

NSF Panel Member: Accelerating Research through International Network to Network Collaborations (AccelNet) program *2020 - 2020*

Department of Psychology UT Austin *Austin, US*

Committee Member, Strategic Planning Committee, Department of Psychology. *2019 - 2020*

Mentoring and Teaching

Mentoring

Koll Rada

Dissertation Supervisor *2022 - present*

Kathryn Mahach

Dissertation Supervisor *2022 - present*

Sydney Seese

Dissertation Supervisor *2022 - present*

Maddie Dwortz

Dissertation Supervisor *2019 - present*

Isaac Crews

Dissertation Supervisor *2018 - present*

Tyler Marie Milewski

Dissertation Supervisor *2018 - present*

Won Lee

Dissertation Supervisor *2015 - 2020*

Teaching

Behavioral Neuroscience Seminar

Organizer, Spring & Fall semesters *2022 - present*

UGS 302 “Being Social”

Instructor *2021 - present*

PSY 120R “R Programming for Behavioral Sciences”

Instructor *2021 - present*

PSY 317L “Introduction to Statistics for the Behavioral Sciences”.

Instructor *2020 - present*

PSY 418 “Research Methods and Statistics”

Instructor *2017 - 2020*