

## David M. Lydon-Staley, Ph.D.

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### ACADEMIC POSITIONS

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#### University of Pennsylvania

*Assistant Professor*

July 2020 – present

Annenberg School for Communication

*Postdoctoral Researcher*

August 2017 – July 2020

Department of Bioengineering

### EDUCATION

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#### Cornell University

*Diversity and Inclusion Certificate*

September 2020

#### The Pennsylvania State University

*Ph.D. Human Development & Family Studies*

July 2017

*M.S. Human Development & Family Studies*

May 2014

#### Trinity College Dublin, Ireland

*B.A. (Honors) Psychology & English Literature*

May 2011

### AWARDS AND FELLOWSHIPS

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International Communication Association CommSciBio Top Paper	2020, 2021, 2022
Summer Seminars in Neuroscience and Philosophy Summer Scholar	2020
UCLA mHealth Training Institute Scholar	2019
Human Capital Economic Opportunity Dissertation Prize, University of Chicago	2018
Jacobs Foundation/ISSBD Early Career Scholar	2015 – 2017
Steven H. Zarit Award for Outstanding Graduate Studies, Penn State	2016
Global Programs Graduate Travel Grant, Penn State	2015
Prevention & Methodology Fellowship, National Institute on Drug Abuse	2014 – 2016
NIDA/NIAA-sponsored APA Early Career Poster and Travel Award	2014/2015
Graham Fellowship, Penn State	2012

### FUNDING

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Multiscale integration of neural, social, and network theory to understand and predict transitions from illness to wellness. *Army Research Office*. 01/2022 – 05/2023. PI: Emily Falk. Role: Co-I.

Mobile phenomics and Borderline Personality Disorder. 07/2021-06/2022. PI: Ted Satterthwaite. Role: Collaborator.

Project SMART: Social Media Anti-vaping Messages to Reduce ENDS Use Among Sexual and Gender Minority Teens. *National Institute on Drug Abuse*. 07/02/2021 – 04/30/2026. PI: Andy Tan. Role: Co-I.

Consistency and change in functional brain networks of tobacco withdrawal in daily smokers. *Brain & Behavior Research Foundation Young Investigator Grant*. 01/15/2021 – 01/14/2023. PI: D.M. Lydon-Staley.

Development and validation of a computational model of higher-order statistical learning on graphs in humans. R21. *National Institutes of Health*. 07/01/2020 – 06/30/22. PI: D.S. Bassett. Role: Senior Personnel.

Person-specific dynamic networks of nicotine withdrawal: Implications for smoking cessation. K01. *National Institute on Drug Abuse*. 07/01/2019 – 06/30/2024. PI: D.M. Lydon-Staley.

The Knowledge Networks Over Time (KNOT) Study: Within-person change in curiosity and implications for well-being across development. *Center for Curiosity*. PI: D.S. Bassett. Role: Co-I.

## PUBLICATIONS

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Google scholar profile: <https://scholar.google.com/citations?user=hyfkcO0AAAAJ&hl=en&oi=ao>  
H-index: 19; i10-index: 25; Citations: 1081

\*Trainee; ^Senior Author

47. Mak, H.W., **Lydon-Staley, D.M.**, Lunkenheimer, E., Lai, M.H.C., & Fosco, G.M. (in press). The role of parents and friends in adolescent daily emotion dynamics. *Social Development*.

46. Kang, Y., Cosme, D., **Lydon-Staley, D.M.**, Ahn, J., Jovanova, M., Corbani, F., Lomax, S., Stanoi, O., Strecher, V., Mucha, P., Ochsner, K., Bassett, D.S., & Falk, E.B. (in press). Alcohol cue reactivity in the ventral striatum and daily purpose in life moderate the relationship between alcohol craving and consumption in college students. *Addiction*.

45. Ju, H., Zhou, D., Blevins, A.S., **Lydon-Staley, D.M.**, Kaplan, J., Tuma, J.R., & Bassett, D.S. (in press). The network structure of scientific revolutions. *Collective Intelligence*. Preprint: <https://arxiv.org/abs/2010.08381>

44. Xia, C.G., Barnett, I., Tapera, T.M., Cui, Z., Moore, T.M., Adebimpe, A., Ruse-Goebel, S., Piiwaa, K., Murtha, K., Linguiti, S., Leibenluft, E., Brotman, M.A., Martin, M.L., Calkins, M.E., Roalf, D.R., Wolf, D.H., Bassett, D.S., **Lydon-Staley, D.M.**, Baker, J.T., Ungar, L., & Satterthwaite, T.D. (2022). Mobile footprinting: Linking individual distinctiveness in mobility patterns to mood, sleep, and brain functional connectivity. *Neuropsychopharmacology*, 47, 1662-1671.

43. Wang, X.\*, Scholz, C., Falk, E.B., & **Lydon-Staley, D.M.**^ (in press). Neuroimaging. *The International Encyclopedia of Health Communication*.
42. Jovanova, M.\*, Falk, E.B., Parelman, J.M., Pandey, P., O'Donnell, M.B., Kang, Y., Bassett, D.S., & **Lydon-Staley, D.M.**^ (in press). Brain system integration and message consistent behavior change. *Health Psychology*. Preprint: <https://psyarxiv.com/ukbta/>
41. McGowan, A.\*, Falk, E.B., Zurn, P., Bassett, D.S., & **Lydon-Staley, D.M.**^ (2022). Daily and momentary sensation-seeking and urgency in young adults: Associations with alcohol use and self-defined risky behaviors. *Addictive Behaviors*, 127, 107219.
40. McGowan, A. L.\*, Parkes, L., He, X., Stanoi, O., Kang, Y., Lomax, S., Jovanova, M., Mucha, P.J., Ochsner, K.N., Falk, E.B., Bassett, D.S., & **Lydon-Staley, D. M.**^ (in press). Controllability of structural brain networks and the waxing and waning of negative affect in daily life. *Biological Psychiatry: Global Open Science*. Preprint: <https://psyarxiv.com/792g8/>
39. Zurn, P., Zhou, D., **Lydon-Staley, D.M.**, & Bassett, D.S. (2022). Edgework: Viewing curiosity as fundamentally relational. In I. Coglitai Dezza, E. Schulz, & C. Wu (Eds.), *The drive for knowledge: The science of human information seeking* (pp. 259-278). Cambridge, UK: Cambridge University Press.
38. Leonard, J., **Lydon-Staley, D.M.**, Sharp, S.D.S., Liu, H.Z., Park., A., Bassett, D.S., Duckworth, A., & Mackey, A. (2022). Daily fluctuations in young children's persistence. *Child Development*, 93, e222-e236.
37. Cornblath, E.J., Mahadevan, A., He, X., Ruparel, K., **Lydon-Staley, D.M.**, Moore, T.M., Gur, R.C., Zackai, E.H., Emanuel, B., McDonald-McGinn, D.M., Wolf, D.H., Satterthwaite, T.D., Roalf, D.R., Gur, R.E., & Bassett, D.S. (2022). Altered functional brain dynamics in chromosome 22q11.2 deletion syndrome during facial affect processing. *Molecular Psychiatry*, 27, 1158-1166.
36. Wang, X.\*, Dworkin, J., Zhou, D., Stiso, J., Falk, E.B., Bassett, D.S., Zurn, P., & **Lydon-Staley, D.M.**^ (2021). Gendered citation practices in the field of communication. *Annals of the International Communication Association*, 45, 134-153.
35. Drake, A.\*, Doré, B., Falk, E.B., Zurn, P., Bassett, D.S., & **Lydon-Staley, D.M.**^ (2022). Daily stressor related negative mood and its associations with flourishing and curiosity. *Journal of Happiness Studies*, 22, 423-438.
34. **Lydon-Staley, D.M.**, MacLean, R.R., Falk, E.B., Bassett, D.S., & Wilson, S.J. (2021). The feasibility of an in-scanner smoking lapse paradigm to examine the neural correlates of lapses. *Addiction Biology*, 26, e13001.
33. **Lydon-Staley, D.M.**, Leventhal, A.M., Piper, M.E., Schnoll, R.A., & Bassett, D.S. (2021). Temporal networks of tobacco withdrawal symptoms during smoking cessation treatment. *Journal of Abnormal Psychology*, 130, 89-101.
32. Zhou, D., **Lydon-Staley, D.M.**, Zurn, P., & Bassett, D.S. (2020). The growth and form of knowledge networks by kinesthetic curiosity. *Current Opinion in Behavioral Sciences*, 35, 125-134.

31. **Lydon-Staley, D.M.**, Zhou, D., Sizemore Blevins, A., Zurn, P., & Bassett, D.S. (2020). Hunters, busybodies, and the knowledge network building associated with deprivation curiosity. *Nature Human Behavior*, *5*, 327-336.
30. **Lydon-Staley, D.M.**, Cornblath, E., Sizemore Blevins, A., & Bassett, D.S. (2020). Modeling brain, symptom, and behavior in the winds of change. *Neuropsychopharmacology Reviews*, *46*, 20-32.
29. Fink, K., Bonna, K., He, X., **Lydon-Staley, D.M.**, Kühn, S., Duch, W., & Bassett, D.S. (2020). Dynamic reconfiguration of functional brain networks during working memory training. *Nature Communications*, *11*:2435.
28. Murphy, A.C., Bertolero, M.A., Papadopoulos, L., **Lydon-Staley, D.M.**, & Bassett, D.S. (2020). Multiscale and multimodal network dynamics underpinning working memory. *Nature Communications*, *11*:3035.
27. Fosco, G.M., & **Lydon-Staley, D.M.** (2020). Implications of family cohesion and conflict for adolescent mood and well-being: Examining within- and between-family processes on a daily timescale. *Family Process*, *59*, 1672-1689.
26. **Lydon-Staley, D.M.**, Falk, E.B., & Bassett, D.S. (2020). Within-person variability in sensation-seeking during daily life: positive associations with alcohol use and self-defined risky behaviors. *Psychology of Addictive Behaviors*, *34*, 257-268.
25. **Lydon-Staley, D.M.**, Zurn, P., & Bassett, D.S. (2020). Within-person variability in curiosity during daily life and associations with well-being. *Journal of Personality*, *88*, 625-641.
24. **Lydon-Staley, D.M.**, Schnoll, R., Hitsman, B., & Bassett, D.S. (2020). The network structure of tobacco withdrawal in a community sample of smokers treated with nicotine patch and behavioral counseling. *Nicotine & Tobacco Research*, *22*, 408-414.
23. **Lydon-Staley, D.M.**, Kuehner, C., Zamoscik, V., Huffziger, S., Kirsch, P., & Bassett, D.S. (2019). Repetitive negative thinking in daily life and functional connectivity among default mode, fronto-parietal, and salience networks. *Translational Psychiatry*, *9*, 234.
22. Cornblath, E.J., **Lydon-Staley, D.M.**, & Bassett, D.S. (2019). Neuropsychiatric care informed by networks and big data. *Current Opinion in Neurobiology*, *55*, 32-39.
21. Fosco, G.M., & **Lydon-Staley, D.M.** (2019). A within-family examination of interparental conflict, cognitive appraisals, and adolescent mood and well-being. *Child Development*, *90*, e421-e436.
20. **Lydon-Staley, D.M.**, Barnett, I., Satterthwaite, T.D., & Bassett, D.S. (2019). Digital phenotyping for psychiatry: Accommodating data and theory with network science methodologies. *Current Opinion in Biomedical Engineering*, *9*, 8-13.
19. **Lydon-Staley, D. M.**, Ciric, R., Satterthwaite, T. D., & Bassett, D. S. (2019). Evaluation of confound regression strategies for the mitigation of motion artifact in studies of dynamic resting state functional connectivity. *Network Neuroscience*, *3*, 427-454.

18. **Lydon-Staley, D.M.**, Xia, M., Mak, H. W., & Fosco, G.M. (2019). Adolescent Emotion Network Dynamics in Daily Life and Implications for Depression. *Journal of Abnormal Child Psychology*, *47*, 717-729.
17. Tang, E., Mattar, M.G., Giusti, C., **Lydon-Staley, D.M.**, Thompson-Scholl, S.L., & Bassett, D.S. (2019). Effective learning is accompanied by high dimensionality and efficient representations of neural activity. *Nature Neuroscience*, *22*, 1000-1009.
16. White, R., Gatzke-Kopp, L.M., Ryan, P., & **Lydon-Staley, D.M.** (2019). The association between perinatal hypoxia exposure and externalizing symptoms and risky decision making in childhood is moderated by DRD2 genotype. *Developmental Psychobiology*, *61*, 56-68.
15. Gatzke-Kopp, L. M., Ram, N., **Lydon-Staley, D. M.**, & DuPuis, D. (2018). Children's sensitivity to cost and reward in decision making across distinct domains of probability, effort, and delay. *Journal of Behavioral Decision Making*, *31*, 12-24.
14. Geier, C.F., Roberts, N., & **Lydon-Staley, D.M.** (2018). The effects of smoking abstinence on incentivized spatial working memory. *Substance Use and Misuse*, *53*, 86-93.
13. **Lydon-Staley, D.M.**, & Bassett, D. S. (2018). The Promise and Challenges of Intensive Longitudinal Designs for Imbalance Models of Adolescent Substance Use. *Frontiers in Psychology*, *9*, 1576.
12. **Lydon-Staley, D.M.**, & Bassett, D.S. (2018). Network neuroscience: A framework for developing biomarkers in psychiatry. In J. Pratt, & J. Hall (Eds.), *Current topics in behavioral neurosciences: Biomarkers in psychiatry*. Advanced online publication. [https://doi.org/10.1007/7854\\_2018\\_41](https://doi.org/10.1007/7854_2018_41)
11. **Lydon-Staley, D.M.**, & Geier, C.F. (2018). Age-varying associations between cigarette-smoking, sensation-seeking, and impulse control through adolescence and young adulthood. *Journal of Research on Adolescence*, *28*, 354-367.
10. Yang, X., Ram, N., Gest, S.D., **Lydon-Staley, D.M.**, Conroy, D.E., Pincus, A.L., & Molenaar, P.C.M. (2018). Socioemotional dynamics of emotion regulation and depressive symptoms: A person-specific network approach. *Complexity*, *2018*.
9. **Lydon-Staley, D.M.**, Cleveland, H.H., Huhn, A.S., Cleveland, M.J., Harris, J., Stankoski, D., Deneke, E., Meyer, R.E., & Bunce, S.C. (2017). Daily sleep quality affects craving, partially through indirect associations with positive affect, in patients in treatment for nonmedical use of prescription drugs. *Addictive Behaviors*, *65*, 275-282.
8. **Lydon-Staley, D.M.**, Ram, N., Brose, A., & Schmiedek, F. (2017). Reduced Impact of Alcohol Use on Next-day Tiredness in Older Relative to Younger Adults: A Role for Sleep Duration. *Psychology & Aging*, *32*, 642-653.
7. Huhn, A.S., Harris, J., Cleveland, H.H., **Lydon, D.M.**, Stankoski, D., Cleveland, M.J., Deneke, E., & Bunce, S.C. (2016). Ecological momentary assessment of affect and craving in patients in treatment for prescription opioid dependence. *Brain Research Bulletin*, *123*, 94-101.

6. **Lydon, D.M.**, Howard, M., Wilson, S.J., & Geier, C.F. (2016). The perceived causal structures of smoking: Smoker and non-smoker comparisons. *Journal of Health Psychology, 21*, 2042-2051.
5. **Lydon, D.M.**, Ram, N., Conroy, D.E., Pincus, A.L., Geier, C.F., & Maggs, J.L. (2016). The within-person association between alcohol use and sleep duration and quality in situ: an experience sampling study. *Addictive Behaviors, 61*, 68-73.
4. **Lydon, D.M.**, Galvan, A., & Geier, C.F. (2015). Adolescence and addiction: Vulnerability, opportunity, and the role of brain development. In S.J. Wilson (Ed.), *The Wiley-Blackwell Handbook on the Cognitive Neuroscience of Addiction* (pp. 292-310). Oxford, UK: Wiley-Blackwell.
3. **Lydon, D.M.**, Roberts, N., & Geier, C.F. (2015). Reduced influence of monetary incentives on Go/No-Go performance during smoking abstinence. *Nicotine & Tobacco Research, 17*, 1178-1181.
2. **Lydon, D.M.**, & Nixon, E. (2014). Facial mimicry interference affects reaction time but not accuracy on an emotion-recognition task in children, adolescents, and adults. *The Irish Journal of Psychology, 35*, 106-120.
1. **Lydon, D.M.**, Wilson, S.J., Child, A., & Geier, C.F. (2014). Adolescent brain maturation and smoking: what we know and where we're headed. *Neuroscience & Biobehavioral Reviews, 45*, 323-342.

*Preprints/Manuscripts Under Review*

13. Lyew, T.\*, Ikhlas, A.\*, Sayed, F.\*, Vincent, A.\*, & **Lydon-Staley, D.M.**^ (under review). Adolescents' curiosity facilitates recall of tobacco-related health information. Preprint: <https://psyarxiv.com/pq3ks>
12. McGowan, A. L.\*, Boyd, Z. M., Kang, Y., Bennett, L., Mucha, P., Ochsner, K., Bassett, D.S., Falk, E.B., & **Lydon-Staley, D. M.**^ (under review). Network Analysis of within-person temporal associations among physical activity, sleep, and wellbeing in situ. Preprint: <https://psyarxiv.com/q4jn3>
11. Stiso, J., Oudyk, K., Bertolero, M.M., Zhou, D., Teich, E.G., **Lydon-Staley, D.M.**, Zurn, P., & Bassett, D.S. (under review). Modeling observed gender imbalances in academic citation practices. Preprint: <https://arxiv.org/abs/2204.12555>
10. Wang, X.\*, McGowan, A.L.\*, Fosco, G.M., Falk, E.B., Bassett, D.S., & **Lydon-Staley, D.M.**^ (under review). A socioemotional network perspective on momentary experiences of family conflict in young adults. Preprint: <https://psyarxiv.com/wj92g>
9. McGowan, A. L.\*, PhD, Sayed, F.\*, Boyd, Z. M., Jovanova, M., Kang, Y., Speer, M., Cosme, D., Mucha, P.J., Ochsner, K.N., Bassett, D.S., Falk, E.B., & **Lydon-Staley, D. M.**^ (under revision). Dense sampling approaches for psychiatry research: Adventures with scanners and smartphones. Preprint: <https://psyarxiv.com/7vt5g>
8. Jovanova, M.\*, Cosme, D., Doré, B., Kang, Y., Stanoi, O., Cooper, N., Helion, C., Lomax, S., McGowan, A.L.\*, Boyd, Z., Bassett, D.S., Mucha, P., Ochsner, K.N., **Lydon-Staley, D.M.**, & Falk,

E. B. (under review). Psychological distance intervention reminders reduce alcohol consumption frequency in daily life. Preprint: <https://psyarxiv.com/yw7s3/>

7. Shaikh, S. J.\*, McGowan, A. L.\*, & **Lydon-Staley, D. M.**^ (under revision). The effect of valenced news consumption on affect in situ. Preprint: <https://psyarxiv.com/56r4u>

6. Clark, J.\*, Vincent, A.\*, Wang, X.\*, McGowan, A.L.\*, & **Lydon-Staley, D.M.**^ (under revision). Smokers' curiosity for tobacco-related trivia aids recall of tobacco-related information. Preprint: <https://doi.org/10.31234/osf.io/wbfau>

5. Sayed, F.\*, McGowan, A. L.\*, Jovanova, M., Cosme, D., Kang, Y., Stanoi, O., Mucha, P.J., Ochsner, K.N., Bassett, D.S., Falk, E.B., & **Lydon-Staley, D.M.**^ (under review). Momentary associations between affect and alcohol use in the daily lives of college students. Preprint: <https://psyarxiv.com/a7cgu>

4. Zhou, D., Kang, Y., Cosme, D., Jovanova, M., He, X., Mahadevan, A., Stanoi, O., Brynildsen, J.K., Cooper, N., Cornblath, E., Parkes, L., Mucha, P., Ochsner, K.N., **Lydon-Staley, D.M.**, Falk, E.B., & Bassett, D. S. (under review). Mindfulness Promotes Control of Brain Network Dynamics for Self-Regulation and Discontinues the Past from the Present. Preprint: <https://doi.org/10.31234/osf.io/u83my>

3. Patankar, S.P., Zhou, D., Lynn, C.W., Kim, J.Z., Ouellet, M., Ju, H., Zurn, P., **Lydon-Staley, D.M.**, & Bassett, D.S. (under review). Curiosity as filling, compressing, and reconfiguring knowledge networks. Preprint: <https://arxiv.org/abs/2204.01182>

2. Dora, J., Piccirillo, M., Foster, K. T., Arbeau, K., Armeli, S., Auriacombe, M., ..., **Lydon-Staley, D.M.**, ... King, K. M. (under revision). The daily association between affect and alcohol use: A meta-analysis of individual participant data. Preprint: <https://psyarxiv.com/xevct/>

1. Richie-Halford, A., Cieslak, M., Ai, L., Caffarra, S., Covitz, S., Franco, A.R., Karipidis, I.I., Kruper, J., Milham, M., Avelar-Pereira, B., Roy, E., Sydnor, V.J., Yeatman, J., **The Fibr Community Science Consortium\***, Satterthwaite, T.D., & Rokem, A. (under review). An open, analysis-ready, and quality controlled resource for pediatric brain white-matter research. Preprint: <https://www.biorxiv.org/content/10.1101/2022.02.24.481303v1>

*\*Includes David and postdoctoral trainee Amanda McGowan*

## INVITED TALKS

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- 2022 University of North Carolina Network for Network and Data Science Seminar
- 2022 Center for Cognitive Neuroscience Seminar, Duke University
- 2021 National Institute on Drug Abuse & National Institute on Alcohol Abuse and Alcoholism Frontiers in Addiction Research Convention
- 2021 Institute for Human Neuroscience, Boys Town National Research Hospital
- 2021 Department of Psychology seminar, Columbia University
- 2021 Rutgers-Princeton Center for Computational Neuropsychiatry
- 2020 American College of Neuropsychopharmacology study group on life after drug use
- 2020 MindCORE seminar, University of Pennsylvania

- 2020 Meeting of the International Society for Research on Impulsivity  
 2019 Social Cognitive and Affective Neuroscience (SCAN) Lab, Columbia University  
 2019 Network Medicine satellite at *NetSci2019*  
 2019 Computer Science Department colloquium, American University

## CONFERENCE PRESENTATIONS

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### Chaired Symposia

**Lydon-Staley, D.M.** (May, 2020). Curiosity and information-seeking in the laboratory and in situ across seconds, days, and Millennia. *Association for Psychological Science*. Cancelled due to Covid-19.

### Paper Presentations

McGowan, A.L., Boyd, Z.M., Kang, Y., Mucha, P.J., Ochsner, K.N., Bassett, D.S., Falk, E.B., & **Lydon-Staley, D.M.** (2022). Within-person associations among physical activity, sleep, and well-being in situ: Opportunities for whole-person well-being. *UConn Center for mHealth and Social Media Annual Conference*.

McGowan, A.L. & **Lydon-Staley, D.M.** (2022). Combining smartphones and scanners: Controllability of structural brain networks and the waxing and waning of negative affect in young adults' daily life. *Association for Psychological Science 34th Annual Convention*.

Clark, J., Vincent, A., Wang, X., McGowan, A.L., & **Lydon-Staley, D.M.** (March 2022). Smokers' curiosity facilitates recall of tobacco-related health information. *Society for Research on Nicotine and Tobacco Research*.

McGowan, A.L., Bennett, L., Bassett, D.S., & **Lydon-Staley, D.M.** (June 2021). Naturalistic fluctuations in night-to-night sleep duration and quality and their associations with next day perceived stress and negative mood. *American College of Sports Medicine Annual Meeting*.

Wang, X., Dworkin, J.D., Zhou, D., Stiso, J., Falk, E.B., Bassett, D.S., Zurn, P., & **Lydon-Staley, D.M.** (May 2021). Gendered citation practices in the field of communication. *Annual International Communication Association Conference*.

McGowan, A.L., Falk, E.B., Zurn, P., Bassett, D.S., & **Lydon-Staley, D.M.** (May 2021). Daily and momentary sensation-seeking and urgency in emerging adults: Associations with alcohol use and risky behaviors. *Annual International Communication Association Conference*.

Jovanova, M., Stanoi, O., Scholz C., **Lydon-Staley, D.M.**, Kang, Y., Cosme, D., Dore, B., Mucha, P., Ochsner, K., Bassett, B.D., Falk, E.B. (May 2021). Neural and social mechanisms tracking conversational susceptibility to drinking. *Annual International Communication Association Conference*.

Jovanova, M., Stanoi, O., Scholz C., **Lydon-Staley, D.M.**, Kang, Y., Cosme, D., Dore, B., Mucha, P., Ochsner, K., Bassett, B.D., Falk, E.B. (April 2021). Neural and social mechanisms tracking conversational susceptibility to drinking. *Annual Meeting of the Social & Affective Neuroscience Society*.



**Lydon-Staley, D.M.**, MacLean, R.R., Falk, E.B., Bassett, D.S., & Wilson, S.J. (February 2021). Segregation of the default mode from frontoparietal system protects against smoking lapse. *Society for Research on Nicotine & Tobacco Research*.

**Lydon-Staley, D.M.**, Zhou, D., Sizemore Blevins, A., Zurn, P., & Bassett, D.S. (August, 2020). Hunters, busybodies and the knowledge network building associated with deprivation curiosity. *The STEM Village Virtual Symposium*.

Jovanova, M., **Lydon-Staley, D.M.**, O'Donnell, M., Pandey, P., Parelman, J., Kang, Y., Bassett, D.S., & Falk, E.B. (May, 2020). Default mode and salience brain network integration during messaging predicts health behavior change. *International Communication Association Conference*.

Jovanova, M., Doré, B., **Lydon-Staley, D.M.**, Stanoi, O., Cooper, N., Kang, Y., Mucha, P., Ochsner, K., Bassett, D.S., & Falk, E.B. (May, 2020). Effects of a smartphone delivered intervention: Using mindfulness and perspective-taking to reduce alcohol consumption among college students. *International Communication Association Conference*.

**Lydon-Staley, D.M.** (March, 2019). Brain networks underpinning cognitive control support flexible behavior *in situ*. *Cognitive Neuroscience Society*.

LoBraico, E.J., **Lydon-Staley, D.M.**, & Fosco, G.M. (November, 2018). Latent profiles of variability and levels of family conflict and cohesion: Implications for adolescent adjustment. *National Council on Family Relations*.

Fosco, G.M., & **Lydon-Staley, D.M.** (June, 2017). Daily variation in family cohesion and conflict: Implications for Adolescent Psychopathology and Well-Being. *Society for Prevention Research*.

Fosco, G.M., & **Lydon-Staley, D.M.** (April, 2017). Aligning data, methodology, and theory in characterizing the associations between interparental conflict, adolescent appraisals, and adjustment on a daily timescale. *Society for Research in Child Development*.

**Lydon-Staley, D.M.**, Xia, M., & Fosco, G.M. (April, 2017). Daily emotion dynamics provide insight into emotion regulation above trait measures: Emotion network density and associations with symptoms of psychopathology in adolescents. *Society for Research in Child Development*.

Mak, H.W., **Lydon-Staley, D.M.**, & Fosco, G.M. (April, 2017). The influence of parental emotion socialization on adolescents' emotion network density. *Society for Research in Child Development*.

Yang, X., **Lydon, D.M.**, & Ram, N. (May, 2016). Individuals as dynamic networks: A merging of intraindividual variability, network analysis, and experience sampling. *Modern Modeling Methods*.

### **Poster Presentation**

McGowan, A.L., Sayed, F., Boyd, Z.M., Jovanova, M., Kang, Y., Speer, M.E., Cosme, D., Mucha, P.J., Ochsner, K.N., Bassett, D.S., Falk, E.B., **Lydon-Staley, D.M.** (October, 2022). Dense sampling approaches for psychophysiological research: Current reality and future possibilities for studying real-world behavior. *Society for Psychophysiological Research Annual Meeting*.

McGowan, A.L. & **Lydon-Staley, D.M.** (September, 2022). Exploring parent-child dyadic networks to design a smartphone-based mindfulness intervention for underserved families. *The Association of Computing Machinery International Conference on Mobile Human-Computer Interaction*.

McGowan, A.L., Boyd, Z.M., Kang, Y., Mucha, P.J., Ochsner, K.N., Bassett, D.S., Falk, E.B., & **Lydon-Staley, D.M.** (April, 2022). Within-person associations between physical activity and affect in situ: An experience-sampling study. *Annual Meeting of the Society of Behavioral Medicine*.

McGowan, A.L., Parkes, L., He, X., Stanoi, O., Kang, Y., Lomax, S., Jovanova, M., Mucha, P.J., Ochsner, K.N., Falk, E.B., Bassett, D.S., & **Lydon-Staley, D.M.** (September, 2021). Controllability of structural brain networks and the waxing and waning of negative affect in daily life. *Flux: The Society for Developmental Cognitive Neuroscience Conference*.

**Lydon-Staley, D.M.**, Leventhal, A.M., Piper, M., Schnoll, R.A., & Bassett, D.S. (April, 2020). More than the sum of its parts: A network perspective on tobacco withdrawal. *Society of Behavioral Medicine*. Cancelled due to Covid-19.

Von Schwanenflug, N., Koch, S.P., **Lydon-Staley, D.M.**, Heine, J., Prüss, H., Friedmann, P., Bassett, D.S., & Finke, C. (June, 2019). Alterations of network configurations in patients with anti-NMDA receptor encephalitis. *Organization for Human Brain Mapping*.

Jovanova, M., Pandey P., O'Donnell M.B., Parelman J., **Lydon-Staley, D.M.**, Kang, Y., Bassett, D.S., Falk E.B. (May, 2019) Functional connectivity between salience and self networks predicts message-consistent cognitions and health behavior change. *Social Affective Neuroscience Society*.

Zhou, D., **Lydon-Staley, D.M.**, Zurn, P., & Bassett, D.S. (May, 2019). Mechanisms of curiosity and information seeking during Wikipedia exploration. *Arthur M. Sackler Colloquia on the National Academy of Sciences*.

**Lydon-Staley, D.M.**, & Bassett, D.S. (May, 2019). Within-person variability in sensation-seeking during daily life: Associations with alcohol use and self-defined risky behaviors. *Society for the Science of Motivation*.

**Lydon-Staley, D.M.**, Zurn, P., & Bassett, D.S. (May, 2019). Fragile curiosity: Augmentation and blunting of curiosity in daily life and implications for well-being. *Association for Psychological Science*.

**Lydon-Staley, D.M.**, Ciric, R., Gur, R.C., Gur, R.E., Satterthwaite, T.D., and Bassett, D.S. (May, 2018). Evaluation of confound regression strategies for the mitigation of motion artifact in studies of dynamic resting state functional connectivity. *Association for Psychological Science*.

Ryan, P., White, R., **Lydon-Staley, D.M.**, & Gatzke-Kopp, L.M. (April, 2017). A polymorphism in the glucocorticoid receptor gene mitigates the effect of physical prenatal maternal stress on effort tolerance. *Society for Research in Child Development*.

White, R., Ryan, P., **Lydon-Staley, D.M.**, & Gatzke-Kopp, L.M. (April, 2017). COMT gene variants differentially moderate the effects of physical and interpersonal risk factors on children's delay tolerance. *Society for Research in Child Development*.

White, R., Ryan, P., **Lydon-Staley, D.M.**, & Gatzke-Kopp, L.M. (April, 2017). DRD2 Taq1A polymorphism moderates the effect of pre- and perinatal exposure to hypoxic conditions on probability discounting. *Society for Research in Child Development*.

**Lydon-Staley, D.M.**, Luna, B., & Geier, C.F. (September, 2016). Age varying associations between daily cigarette-smoking, sensation-seeking, and impulse control through adolescence and young adulthood. *Flux: The International Congress of Integrative Developmental Cognitive Neuroscience*.

**Lydon, D.M.**, Ram, N., Geier, C.F., & Gatzke-Kopp, L. (July, 2016). Individual differences in cost discounting: Associations with prenatal nicotine exposure. *International Society for the Study of Behavioral Development*.

Cleveland, M., Cleveland, H.H., **Lydon, D.M.**, Deneke, E., Stankoski, D., & Bunce, S. (June, 2016). Between-person differences in within-day associations between affect and cravings predict time-to-relapse among prescription opiate dependent patients. *Research Society on Alcoholism*.

**Lydon, D.M.**, Ram, N., Geier, C.F., & Gatzke-Kopp, L. (September, 2015). Differences in children's cost discounting are associated with exposure to prenatal smoking. *Flux: The International Congress of Integrative Developmental Cognitive Neuroscience*.

White, R., Roberts, N.J., **Lydon, D.M.**, Lo, L.L., Luna, B., & Geier, C.F. (September, 2015). Development of reward and cognitive control connectivity using Group Iterative Multiple Model Estimation. *Flux: The International Congress of Integrative Developmental Cognitive Neuroscience*.

**Lydon, D.M.**, Ram, N., Geier, C.F., & Gatzke-Kopp, L. (September, 2015). Differences in children's cost discounting are associated with exposure to prenatal smoking. *Society for Research in Child Development*.

**Lydon, D.M.**, Ram, N., Maggs, J.L., Conroy, D.E., Pincus, A.E., & Geier, C.F. (August, 2015). Sleep quality is reduced after alcohol use: an intensive look at everyday life. *American Psychological Association*.

Geier, C.F., **Lydon, D.M.**, Lo, L., Roberts, N., & Luna, B. (September, 2014). The influence of incentives on cognitive control during adolescence. *Flux: the International Congress of Integrative Developmental Cognitive Neuroscience*.

**Lydon, D.M.**, Roberts, N., & Geier, C.F. (September, 2014). Integrating smoking beliefs into a neurobiological model of smoking-related decision-making. *Flux: The International Congress of Integrative Developmental Cognitive Neuroscience*.

Roberts, N., **Lydon, D.M.**, & Geier, C.F. (September, 2014). Incentive effects on visual spatial working memory. *Flux: The International Congress of Integrative Developmental Cognitive Neuroscience*.

**Lydon, D.M.**, & Geier, C.F. (August, 2014). The perceived causal structure of cigarette addiction among a sample of late adolescent smokers and non-smokers. *American Psychological Association Convention*.

**Lydon, D.M.**, Child, A., Beahm, J., & Geier, C.F. (November, 2013). A novel mixed anti- and visually guided saccade task to assess incentive effects on inhibitory control. *The Society for Neuroscience*.

**Lydon, D.M.**, Child, A., Beahm, J., & Geier, C.F. (September, 2013). Incentive effects on inhibitory control across developmental and cigarette-smoking samples. *The International Congress for Integrative Developmental Cognitive Neuroscience*.

## TEACHING

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### **Annenberg School for Communication, The University of Pennsylvania**

*Instructor* 2021 - Present

*Spring 2022*: Diversity and the End of Average (student evaluation of overall course quality 4.0; scaled 0 to 4: Poor, Fair, Good, Very Good, Excellent)

*Spring 2022*: Adolescence and Media (student evaluation of overall course quality 3.39; scaled 0 to 4: Poor, Fair, Good, Very Good, Excellent)

*Spring 2021*: It's About Time: Problematizing Time in Social Science Research (student evaluation of overall course quality 3.20; scaled 0 to 4: Poor, Fair, Good, Very Good, Excellent)

### **Department of Bioengineering, The University of Pennsylvania**

*Teaching Assistant* 2019

Network Neuroscience (student evaluation of 3.47; 3-4 scaled "very good" to "excellent")

*Guest Lecturer* 2017 – 2019

Network Neuroscience (Topics: Human Brain Networks in Psychiatric Disease; Flexible Behaviors and Flexible Brains)

Ancient and Modern Ways of Thinking About Thinking (Topic: Measuring Curiosity)

### **The College of Health and Human Development, The Pennsylvania State University**

*Teaching Assistant & Guest Lecturer* 2012 – 2017

Introduction to Human Development and Family Studies

Infant and Child Development

Adolescent Development

Family Development

Developmental Problems in Childhood and Adolescence

Internship Experience

## MENTORSHIP

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### *Postdoctoral research advisee*

Dr. Amanda McGowan (now Assistant Professor at Concordia University, Canada)

### *Graduate student advisee*

Thandi Lyew (2021 – present)

Nya Mbock (incoming fall 2022)  
Benjamin Muzekari (incoming fall 2022)  
Xinyi Wang (2020 – present)

*Dissertation committee*

Shubhankar Patankar (Bioengineering, current)  
Jacob Pearl (spring 2022)

*Comprehensive examination committee*

Mia Jovanova (summer 2021)  
Darin Johnson (summer 2022)

*Qualification examination committee*

Darin Johnson (spring 2021)  
Mia Jovanova (spring 2020)  
Xinyi Wang (spring 2022)

*Undergraduate laboratory research trainee*

Sudeep Bhargava (summer 2021)  
Jaydin Clark (2021-2022)  
Anooshey Ikhlas (2021-2022)  
Arina Paniukhina (summer 2022)  
Farah Sayed (2020-present)

*Undergraduate honors thesis student*

Aerin Shea Fergus (spring 2022)

*Independent study student*

Nic Dias (graduate student, spring 2022)  
Anika Prakash (undergraduate student, spring 2022)

*Penn Leonard Davis Institute summer undergraduate minority research scholar*

Liliane Azabe (summer 2022)  
Madison Burnard (summer 2021)  
Kayla McLymont (summer 2021)

*High school research trainee*

Zoe Lebowitz (summer 2021)  
Lila Smith (summer 2022)

*National Institute on Drug Abuse summer research intern*

Sofia Gular (summer 2022)

*Penn Graduate Community-Engaged Research mentee*

Darin Johnson (summer 2022)

## SCIENCE OUTREACH

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*Reveal: The Art of Reimagining Scientific Discovery*. Art exhibit. American University Museum. August-December 2021.

*Everyday curiosity*. Interview with Choose to be Curious, Radio Arlington WERA-LP 96.7 FM

*Life as a Postdoctoral Researcher in Psychology*. Presentation at Out4STEM for STEM-oriented LGBTQIA Youth, The College of Physicians in Philadelphia. May, 2019.

*Playing the Archive 5: Sonic Exploration of Dyadic Data*. Public Data-Musik Concert, The Pennsylvania State University. January, 2019.

*Letters to a Pre-scientist*. Penpal to middle schoolers from low-income schools interested in exploring STEM careers. October 2018 – present.

*Navigating your educational path toward an interdisciplinary career*. Panelist for Alliance for the Arts in Research Universities (a2Ru) webinar. October, 2018.

*Playing the Archive 4*. Public Data-Musik Concert, The Pennsylvania State University. The Pennsylvania State University. January, 2017.

*Banging Out the Data: Meaning Making Through Silence & Sound*. Invited workshop at the *Graduate Women in Science National Conference*, State College, PA. June, 2015.

*Sans-Axis*. Data Visualization Exhibition, Borland Gallery, State College, PA. June, 2013.  
<http://playingthearchive.com/#/exhibition/sans-axis/>

*Penn State Graduate Student Sci-Art Collaboration*. Workshop and Gallery Exhibition, Borland Gallery, State College, PA. September – December, 2013. <https://sciartgradcollab.weebly.com/>

## AD HOC REVIEWER

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*Publons peer review profile*: <https://publons.com/wos-op/researcher/1182954/david-m-lydon-staley/>

Addiction; Addictive Behaviors; Advances in Methods and Practices in Psychological Science; Behavioral Sleep Medicine; Biological Psychiatry; Brain Imaging and Behavior; Communications Biology; Communication Methods and Measures; Developmental Psychology; Emerging Adulthood; Emotion; European Journal of Psychological Assessment; Journal of Adolescent Health; Journal of Complex Networks; Journal of Consulting and Clinical Psychology; Journal of Health Psychology; Journal of Neuroscience Research; Journal of Personality; Journal of Psychiatric Research; Journal of Research on Adolescence; Learning and Motivation; Neurobiology of Stress; Neuroimage; Psychiatry Research: Neuroimaging; Preventive Medicine Reports; Scientific Reports; Social Cognitive and Affective Neuroscience; Substance Abuse Treatment, Prevention and Policy; Substance Use & Misuse; The American Journal of Drug and Alcohol Abuse; Tobacco Induced Diseases; Translational Psychiatry

## SERVICE

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ICA Communication Science Biological Digital Media Coordinator	2022-Present
Penn Diversity and Equity Initiative in the Mind Sciences Faculty Volunteer	2021-2022
Penn MindCORE seminar committee member	2022-Present
Penn LGBTQ+ Faculty Working Group Member	2021-Present
Society for Nicotine and Tobacco Research Annual Meeting Poster Program Mentor	2021
Annenberg Undergraduate Honors Thesis Award Committee Member	2021
Penn Bioengineering Diversity and Inclusion Small Group Meeting Facilitator	2020-Present
Annenberg Diversity Committee Member	2020-Present
Society for Nicotine and Tobacco Research Annual Meeting Abstract Reviewer	2019 & 2020
Diversity Journal Club Organizer	2019 - 2021
Society for Research on Adolescence Diversity and Equity Committee Co-Chair	2018-Present
Penn State LGBTQ Mentor	2016-2017
Penn State LGBTQ Safe Zone Program Volunteer	2014-2017
Penn State Human Development & Family Studies Admissions Committee	2015-2016
Penn State Human Development & Family Studies Steering Committee Chair	2014-2015
Penn State Human Development & Family Studies Newsletter Chair	2013-2014