

# Jessica E. Flannery, PhD

Head of Clinical Science, Limbix Health

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## SUMMARY RESEARCH & CLINICAL INTERESTS

I am an expert in developing and implementing innovative digital solutions to improve patient outcomes and enhance the delivery of mental health care. I am skilled in leading cross-functional teams, conducting clinical research, and collaborating with stakeholders to drive successful product launches. I am committed to advancing the field of digital mental health and reducing the global mental health burden.

My clinical training focuses on pediatric populations with a history of early life adversity as well as on pediatric neuropsychological assessment and parent behavioral management. My training spans across outpatient and psychiatric inpatient settings, including brief crisis stabilization and psychological consultation for suicidal ideation, attempts, non-suicidal self-injury, and severe aggression. My theoretical orientation integrates cognitive behavioral, social learning, and biopsychosocial (integrative) approaches.

My PhD and postdoctoral research focused on how neurobiological development influences mental and physical health trajectories. In particular, I sought to understand how sensitive periods of neurobiological development create both vulnerabilities to environmental adversity as well as opportunities for prevention and intervention. To do so, I took an interdisciplinary approach across neural, hormonal, microbial, and psychosocial indices to assess the emergence of mental health symptoms and health-risk behaviors during adolescence.

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## CURRENT POSITION

Head of Clinical Science	<b>Limbix Health</b> Digital therapeutics for adolescent mental health. Develop and oversee clinical science's role within product design, implementation, and research. Continue to lead and oversee strategic partnerships.	2022-
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## PRIOR POSITIONS

Clinical Scientist	<b>Limbix Health</b> Embedded member on the product team to create and improve new digital therapeutics for adolescent mental health. Project lead for strategic hospital partnership study collaborations.	2021-2022
Clinical Research Scientist	<b>Limbix Health</b> Subject matter expert, clinical safety oversight, and study and analysis design oversight.	2021

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## EDUCATION

Post-doctoral Scholar	<b>University of North Carolina, at Chapel Hill</b>	2020-2021
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Co-advisors: Mitch Prinstein, Ph.D.  
Eva Telzer, Ph.D.

Clinical Psychology Resident	<b>University of Washington, School of Medicine</b> Seattle Children's Hospital	2019-2020
Ph.D.	<b>University of Oregon</b> Clinical Psychology Co-Advisors: Jennifer Pfeifer, Ph.D. Philip Fisher, Ph.D.	2013-2020
M.S.	<b>University of Oregon</b> Clinical Psychology Co-Advisors: Jennifer Pfeifer, Ph.D. Philip Fisher, Ph.D.	2015
B.S.	<b>California Polytechnic State University</b> Major: Psychology, Minor: Biology	2010

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## HIGHLIGHTED FUNDING

College of Arts and Science Dissertation Fellowship	2018
National Science Foundation Graduate Research Fellow Program Fellowship	2015

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## SELECTED FUNDING, HONORS, & AWARDS

Gregores Graduate Student Research Award, \$500	2018
General University Scholarship, \$2,700	2018
NIBL fMRI Workshop Travel Award, \$600	2017
International Society for Developmental Psychobiology Travel Award, \$700	2017
Thomas B. Cooper Memorial Scholarship, \$3,000	2017
Norman D. Sundberg Fellowship, \$1,000	2017
Miller Family Graduate Award in Technology & Science, \$1,300	2015
International Society for Developmental Psychobiology Travel Award, \$400	2014
Henry V. Howe Scholarship, \$2,000	2014
NSF Graduate Research Fellow Program, Honorable Mention	2014
International Society for Developmental Psychobiology Travel Award, \$500	2013
NSF Graduate Research Fellow Program, Honorable Mention	2013
Staff Recognition and Appreciation "STAR" Award, UCLA Lab Manager, \$500	2012

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## RESEARCH EXPERIENCE

<u>Limbix</u>	2021-current
Digital Therapeutics for Adolescent Mental Health	
Create and oversee safety monitoring for pivotal trials for FDA submission and commercialized product.	
Embedded subject matter expert on cross-functional teams to create and improve the product.	
Contribute and create study design and analysis plans for RCT clinical trials.	
Developed study protocol for commercialized product.	
<u>Postdoctoral Research Scholar</u>	2020-2021
Adolescent Digital Mental Health	
<i>University of North Carolina at Chapel Hill, Mitch Prinstein, Ph.D., Eva Telzer, Ph.D.</i>	

Leading remote digital research on daily variations in adolescent biobehavioral functioning.  
 Collaborating on the passive digital assessment and quantification of adolescent mental health.  
 Developed and overseeing Teen Advisory Panel to guide research relevance.  
 Co-developed social media fMRI tasks and ecological momentary assessment protocols.

#### Graduate Researcher

2013-2020

Developmental Social Neuroscience Lab & Stress Neurobiology and Prevention Lab  
*University of Oregon, Jennifer Pfeifer, Ph.D., Philip Fisher, Ph.D.*  
 Managed several multi-method, longitudinal fMRI studies.  
 Initiated and performed outreach activities with adolescents in the community.  
 Coordinated and led multidisciplinary collaborations across two universities, managing IRB protocols, analyzing clinical, behavioral, fMRI, and microbial data, and writing manuscripts.  
 Trained, mentored, and managed 10 research assistants on data collection and analysis.

#### Lab Manager

2011-2013

Developmental Affective Neuroscience Lab  
*University of California, Los Angeles, Nim Tottenham, Ph.D.*  
 Trained, mentored, and managed over 20 research assistants on data collection and analysis.  
 Successfully completed three IRB renewals and multiple amendments.  
 Built and maintained rapport with 200 study participants in a longitudinal MRI study.  
 Conducted clinical interviews, assessments, and research protocols for adolescents.

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### SELECTED ACADEMIC CONFERENCE PRESENTATIONS

#### Chaired Symposia

\*= co-chairs

**Flannery, J.E.\***, Ben-Asher, E.\* **(2022, September)** Career Perspectives Panel. Symposia presented at Flux Congress Annual Congress, virtual.

**Flannery, J.E.\***, Cárdenas, S.\*, Maximilian Scheuplein, M.\*, **(2021, September)** Career Perspectives Panel. Symposia presented at Flux Congress Annual Congress, virtual.

**Flannery, J.E.** (2021, April). *Longitudinal Peer and Family Relationships Impact on Adolescent Mood During COVID-19*. Symposia presented at Society for Research in Child Development Biennial Meeting, virtual.

**Flannery, J.E.** (2021, April). *Best practices and challenges to developmental longitudinal studies during a global pandemic*. Conversation Roundtable moderator at Society for Research in Child Development Biennial Meeting, virtual.

#### Paper Presentations- selected first authored

**Flannery, J.E.**, Kwon, S., Jorgensen, N., Nelson, B., Turpyn, C., Duell, N., Lindquist, K., Prinstein, M., & Telzer E. (2021, April). *Covariation in Adolescent Social Behavior and Mood Following COVID-19 Social Restriction: Moderators of Neural Sensitivity*. Symposia to be presented at Society for Research in Child Development Biennial Meeting.

**Flannery, J.E.**, Op De Macs, Z., Peake, S., Flournoy, J., Ross, G., Vijayakumar, N., Cheng, T., Mobassar, A., Durnin, M., Alberti, S., Fisher, P., & Pfeifer, J.H. (2020) *Peer Influence on risk decisions and neural processes for child-welfare involved adolescents*. Symposia at Society for Research on Adolescence; canceled due to COVID-19.

**Flannery, J.,** Stagaman, K., Hickey, R., Fisher, P., & Sharpton, T. (2017, Nov). *Childhood anxious/depressive behaviors: Associations with the gut microbiota and moderating role of parental behavior*. Symposia presented at International Society of Developmental Psychobiology, Washington, DC.

**Flannery, J.** (2017, April). *The gut microbiota: Role in translational neuroscience*. Symposia presented at Center for Translational Neuroscience, University of Oregon, OR.

**Flannery, J.,** Giuliani, N., Flournoy, J., & Pfeifer, J. (2017, April). *Neurodevelopmental changes in affective reactivity and implicit regulation: Brain function, connectivity, and structure*. Symposia presented at Society for Research in Child Development Biennial Meeting, Austin, TX.

**Flannery, J.,** Roos, L., Guiliano, R., Hickey, R., & Fisher, P. (2017, April). *Parental buffering role on the relationship between early life stress, child internalizing symptoms and gut microbiome diversity*. Symposia presented at Society for Research in Child Development Biennial Meeting, Austin, TX.

**Flannery, J.,** & Hickey, R. (2016, December). *Relationship in children between cortisol reactivity, disrupted caregiving, and the gut microbiome*. Symposia presented at Robert Wood Johnson Foundation-sponsored “Changing Microbiomes in Health” Symposium, University of California, San Diego, CA.

**Flannery, J.,** Giuliani, N., Flournoy, J., & Pfeifer, J. (2014, October). *Teen transitions. The underlying neurobiology of emotion processing*. Symposia presentation at Annual First Year Presentations, University of Oregon, OR.

#### Mentees Presentations

Crosthwaite PC\*, **Flannery JE,** Lake JI, Padmanabhan A. (2022, August). *Safety and adverse event reporting for digital therapeutics*. Poster presented at the American Psychological Association Conference, Minneapolis, MN.

#### Poster Presentations- selected first authored

**Flannery, J.,** Mills, K., Sharpton, T., Fisher, P., Allen, N., & Pfeifer, J. (2020, September). *Gut feelings: What the gut-brain axis may reveal about depressive symptomatology during adolescence*. Poster presented at the Annual Flux 2020 Virtual Congress. Video presentation of poster: <https://youtu.be/zFigpWC5gxc>

**Flannery, J.,** Mills, K., Cheng, T.W., Hval, L., Brady, B., Nelson, N., Byrne, M., Chavez, S., Donaldson, S., Mobasser, A., Flournoy, J., Sharpton, T., Fisher, P., Allen, N., & Pfeifer, J. (2018, September). *How does the gut and brain communicate to influence depression in adolescence? A preregistration*. Poster presented at the 9th Annual Flux Congress, Berlin, Germany.

**Flannery, J.,** Peake, S., Flournoy, J., Op de Macks, Z.A., Cheng, T.W., Mobasser, A., Alberti, S., Fisher, P., & Pfeifer, J. (2016, September). *Social context as a moderator of neural responses to outcomes of risk decisions across community and foster care adolescents*. Poster presented at the Annual Flux Congress, Saint Luis, MO.

**Flannery, J.,** Peake, S., Flournoy, J., Alberti, S., Mobasser, A., Fisher, P., & Pfeifer, J. (2016, April). *Neural outcomes of risk decision: Prediction of subsequent behavioral decision across social contexts in adolescence*. Poster presented at the Annual Social Affective Neuroscience Conference, New York, NY.

**Flannery, J.,** Roos, L., Kim, H., Laurent, H., & Fisher, P. (2016, April). *The role of parental buffering in the relationship between early diurnal cortisol and adolescent mental health-related problems*. Poster presented at the Annual Social Affective Neuroscience Conference, New York, NY.

**Flannery, J.,** Peake, S., Flournoy, J., Alberti, S., Mobasser, A., Fisher, P., & Pfeifer, J. (2015, September). *Neural feedback processing of risk decisions across social contexts in adolescents*. Poster presented at the Annual Flux Congress, Leiden, The Netherlands.

**Flannery, J.,** Peake, S., Flournoy, J., Alberti, S., Mobasser, A., Fisher, P., & Pfeifer, J. (2015, September). *Positive and negative neural feedback processing of risk decisions across social contexts in adolescents*. Poster presented at the Society for Research in Child Development preconference, Leiden, The Netherlands.

**Flannery, J.,** Giuliani, N., Flournoy, J., & Pfeifer, J. (2015, April). *Developmental changes in affect processing: Brain function and connectivity to peer faces*. Poster presented at the Annual Meeting of the Social Affective Neuroscience Society Annual Meeting, Boston, MA.

**Flannery, J.,** Giuliani, N., Flournoy, J., & Pfeifer, J. (2015, March). *Affective reactivity and regulation across adolescence: Neural responses to dynamic peer emotions; complex versus simple emotions*. Poster presented at Biannual Society for Research on Child Development, Philadelphia, PA.

**Flannery, J.,** Giuliani, N., Flournoy, J., & Pfeifer, J. (2014, November). *Dynamic neuropsychological emotion regulation profiles among youth, 10-22-year-old*. Poster presented at Annual International Society of Developmental Psychobiology, Washington, D.C.

**Flannery, J.,** Gabard-Durnam, L., Gee, D., Humphreys, K., Goff, B., Lumian, D., & Tottenham, N. (2013, November). *The impact of early life adversity on diurnal HPA axis function across development*. Poster presented at the Annual Society for Neuroscience, San Diego, CA.

**Flannery, J.,** Gabard-Durnam, L., Gee, D., Humphreys, K., Goff, B., Lumian, D., & Tottenham, N. (2013, November). *The impact of early life adversity on diurnal HPA axis function across development*. Poster presented at the Annual International Society of Developmental Psychobiology, San Diego, CA.

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## PUBLICATIONS

Google Scholar Profile: H-index = 25, 10-index = 39

Note: \*denotes shared first authorship

### 2023

Kwon, S., **Flannery, J.E.**, Turpyn, C.C., Prinstein M.J., Lindquist, K.A., & Telzer, E.H. (in press). Behavioral and neural trajectories of risk taking for peer and parent in adolescence. *Journal of Cognitive Neuroscience*

Maza, M. T., Fox, K. A., Kwon, S. J., **Flannery, J. E.**, Lindquist, K. A., Prinstein, M. J., & Telzer, E. H. (2023). Association of Habitual Checking Behaviors on Social Media With Longitudinal Functional Brain Development. *JAMA pediatrics*.

### 2022

Armstrong-Carter, E., Bibby, E. S., Burroughs, M., **Flannery, J. E.**, Nelson, B. W., Duell, N., Prinstein, J.M., & Telzer, E. H. (2022). Adolescents are more likely to help others on days they take risks and crave social connections. *Journal of research on adolescence*, 32(4), 1421-1432.

Calhoun, C. D., Nick, E. A., Gurtovenko, K., Vaughn, A. J., Simmons, S. W., Taylor, R., Eileen Twohy, E., **Flannery, J.**, & Thompson, A. D. (2022). Child and adolescent psychiatric inpatient care: Contemporary practices and introduction of the 5S model. *Evidence-Based Practice in Child and Adolescent Mental Health*, 7(4), 477-492.

Strauss, G., **Flannery, J. E.**, Vierra, E., Koepsell, X., Berglund, E., Miller, I., & Lake, J. I. (2022). Meaningful engagement: A crossfunctional framework for digital therapeutics. *Frontiers in Digital Health*, 4, 890081.

Barendse, M. E., **Flannery, J.**, Cavanagh, C., Aristizabal, M., Becker, S. P., Berger, E., ... & Pfeifer, J. H. (2022). Longitudinal Change in Adolescent Depression and Anxiety Symptoms from before to during the COVID-19 Pandemic. *Journal of Research on Adolescence*.

Bloom, P. A., VanTieghem, M., Gabard-Durnam, L., Gee, D. G., **Flannery, J.**, Caldera, C., ... & Tottenham, N. (2022). Age-related change in task-evoked amygdala—prefrontal circuitry: A multiverse approach with an accelerated longitudinal cohort aged 4–22 years. *Human brain mapping*, 43(10), 3221-3244.

Gee, D. G., Hanson, C., Caglar, L. R., Fareri, D. S., Gabard-Durnam, L. J., Mills-Finnerty, C., Goff, B., Caldera, C.J., Lumian, D.S., **Flannery, J.**, Hanson, S.J., & Tottenham, N. (2022). Experimental evidence for a child-to-adolescent switch in human amygdala-prefrontal cortex communication: A cross-sectional pilot study. *Developmental Science*, 25(4), e13238.

Nelson, B. W., **Flannery, J. E.**, Flournoy, J., Duell, N., Prinstein, M. J., & Telzer, E. (2022). Concurrent and prospective associations between fitbit wearable-derived RDoC arousal and regulatory constructs and adolescent internalizing symptoms. *Journal of Child Psychology and Psychiatry*, 63(3), 282-295.

Vijayakumar, N., Cheng, T. W., **Flannery, J. E.**, Flournoy, J. C., Ross, G., Mobasser, A., ... & Pfeifer, J. H. (2022). Differential neural sensitivity to social inclusion and exclusion in adolescents in foster care. *NeuroImage: Clinical*, 34, 102986.

## 2021

Nelson, B. W., **Flannery, J. E.**, Flournoy, J., Duell, N., Prinstein, M. J., & Telzer, E. (2021). Consumer Wearable Sensor Data and Adolescent Internalizing Symptoms in a Nationally Representative Sample. In *TMS Proceedings 2021*.

Nelson, B. W., Pettitt, A., **Flannery, J. E.**, & Allen, N. B. (2021). Psychological and epidemiological predictors of COVID-19 concern and health-related. *Int J Methods Psychiatr Res*, 21(3), 169-84.

Nelson, B.W., **Flannery, J.E.**, Duell, N., Flournoy, J., Prinstein, M.J., & Telzer, E. (2021). Concurrent and prospective associations between Fitbit wearable derived RDoC arousal and regulation constructs and adolescent internalizing symptoms. *Journal of Child Psychology and Psychiatry*.

Gau, R., Noble, S., Heuer, K., Bottenhorn, K. L., Bilgin, I. P., Yang, Y. F., ... & Marinazzo, D. (2021). Brainhack: Developing a culture of open, inclusive, community-driven neuroscience. *Neuron*.

VanTieghem, M., Korom, M., **Flannery, J.**, Choy, T., Caldera, C., Humphreys, K., Gabard-Durnam, L.J, Goff, B., Gee, D., Telzer, E., Shapiro, M., Louie, J.Y, Fareri, D., Bolger, N., & Tottenham, N. (in press). Longitudinal changes in amygdala, hippocampus and cortisol development following early caregiving adversity. *Developmental Cognitive Neuroscience*.

## 2020

Vijayakumar, N., Shirtcliff, E., Byrne, M., Mills, K., Cheng, T., Mobasser, A., **Flannery, J.**, Nelson, B., Flournoy, J., Wang, W., Allen, N., & Pfeifer, J. (2020). Pubertal hormones and brain structure: Exploring the value of hair assays. *Psychoneuroendocrinology* 119:105037

Nelson, B. W., Pettitt, A., **Flannery, J. E.**, & Allen, N. B. (2020). Rapid assessment of psychological and epidemiological correlates of COVID-19 concern, financial strain, and health-related behavior change in a large online sample. *PloS one*, 15(11), e0241990.

Andrews, J., Mills, K., Flournoy, J., **Flannery, J.**, Mobasser, A., Ross, G., Durnin, M., Peake, S., Fisher, P., & Pfeifer, J. (2020). Rethinking adolescent risk-taking: Perception of social risk impacts expected involvement in health-risk behaviour during adolescence. *Journal of Research on Adolescence*, (4):1008-1024. PMID: 32910510

Flournoy, J., Vijayakumar, N., Cheng, T., Cosme, D., **Flannery, J.**, Vijayakumar, N., & Pfeifer, J. (2020). Improving Practices and Inferences in Developmental Cognitive Neuroscience. *Developmental Cognitive Neuroscience*, 45:100807. PMID: 32759026 PMCID: PMC7403881

**Flannery, J.\***, Stagaman, K.\*, Burns, A.R., Hickey R.J., Roos, L.E., Giuliano, R.J., Fisher, P.A., & Sharpton, T.J. (2020). Gut feelings begin in childhood: the gut metagenome correlates with early environment, caregiving, and behavior. *mBio*, 11(1):e02780-19. PMID: 31964729 PMCID: PMC6974564

Cheng, T.\*, Vijayakumar, N.\*, Flournoy, J., Op de Macks, Z., Peake, S., **Flannery, J.**, Mobasser A., Alberti, S., Fisher, P., & Pfeifer, J. (2020). Feeling left out or just surprised? Neural correlates of social exclusion and expectancy violations in adolescence. *Cognitive, Affective, & Behavioral Neuroscience*, (2):340-355. PMID: 32056138 PMCID: PMC7338003

Barendse, M., Vijayakumar, N., Byrne, M., **Flannery, J.**, Cheng, T., Flournoy, J., Nelson, B., Cosme, D., Mobasser, A., Chavez, S., Hval, L., Brady, B., Nadel, H., Helzer, A., Shirtcliff, E., Allen, N., & Pfeifer J. (2020) Study protocol: Transitions in Adolescent Girls (TAG). *Frontiers in Psychiatry*, 10:1018. PMID: 32116825 PMCID: PMC7010724

Vijayakumar, N., Flournoy, J., Mills, K., Cheng, T., Mobasser, A., **Flannery, J.**, Allen, N., & Pfeifer J. Getting to know me better: (2020). An fMRI study of intimate and superficial self-disclosure to friends during adolescence. *Journal of Personality and Social Psychology*, (5):885-899. PMID: 32039615 PMCID: PMC7338033

Callaghan, B., Fields, A., Gee, D.G., Gabard-Durnam, L., Caldera, C., Humphreys, K., Goff, B., **Flannery, J.**, Telzer, E., Shapiro, M., & Tottenham, N. (2020). Mind and gut: associations between mood and gastrointestinal distress in children exposed to adversity. *Development and Psychopathology*, (1):309-328. PMID: 30919798 PMCID: PMC6765443

## 2019

Humphreys, K., Gabard-Durnam, L., Goff, B., Telzer, E., **Flannery, J.**, Gee, D., Park, V., Lee, S., & Tottenham, N. (2019). Friendship and social functioning following early institutional rearing: The role of ADHD symptoms. *Development and Psychopathology*, (4):1477-1487. PMID: 30588896 PMCID: PMC6597328

Tottenham, N., Shapiro, M., **Flannery, J.**, Caldera, C., & Sullivan, R.M. (2019). Parental presence switches avoidance to attraction learning in children. *Nature Human Behaviour*, (10):1070-1077. PMID: 31332302 PMCID: PMC7218758

**Flannery, J.**, Callaghan, B., Sharpton, T., Fisher, P., & Pfeifer, J. (2019). Is adolescence the missing developmental link in gut-brain axis communication? *Developmental Psychobiology*, (5):783-795. PMID: 30690712 PMCID: PMC6776431

Alba, L., **Flannery, J.**, Shapiro, M., & Tottenham, N. (2019). Working Memory Moderates the Association Between Early Institutional Care and Separation Anxiety Symptoms in Late Childhood and Adolescence. *Development and Psychopathology*, (3):989-997. PMID: 31038094 PMCID: PMC6620150

Callaghan, B., Gee, D., Gabard-Durnam, L.J., Telzer, E., Humphreys, K., Goff, B., Shapiro, M., **Flannery, J.**, Lumian, D., Fareri, D., Caldera, C., & Tottenham, N. (2019). Decreased amygdala reactivity to parent cues protects against anxiety following early adversity: an examination across 3 years. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 4(7):664-671. PMID: 30952600 PMCID: PMC6612442

## 2018

Op de Macks, Z\*, **Flannery, J.\***, Peake, S., Flournoy, J., Mobasser A., Alberti, S., Fisher, P., & Pfeifer, J. (2018). Novel insights from the Yellow Light Game: Safe and risky decisions differentially impact adolescent outcome-related brain function. *Neuroimage*, 181:568-581. PMID: 29940284 PMCID: PMC6777552

Horn, S.R., Roos, L.E., Beauchamp, K.G., **Flannery, J.E.**, & Fisher, P.A. (2018). Polyvictimization and externalizing symptoms in foster care children: the moderating role of executive function. *Journal of Trauma & Dissociation*, 9(3):307-324. PMID: 29547079 PMCID: PMC6774668

Roos, L., Beauchamp, K., **Flannery, J.**, & Fisher, P. (2018). Cultural contributions to executive function. *Journal of Cognition and Culture*.

## 2017

**Flannery, J.**, Gabard-Durnam, L., Shapiro, M., Goff, B., Caldera, C., Louie, J., Gee, D., Telzer, E., Humphreys, K., Lumian, D., & Tottenham, N. (2017). Diurnal cortisol after early institutional care - age matters. *Developmental Cognitive Neuroscience*, 25:160-166. PMID: 28442223 PMCID: PMC5520669

**Flannery, J.**, Giuliani, N., Flournoy, J., & Pfeifer, J. (2017). Neurodevelopmental changes across adolescence in viewing and labeling dynamic peer emotions. *Developmental Cognitive Neuroscience*, 25:113-127. PMID: 28262423 PMCID: PMC5764159

Vantighem, M.R., Gabard-Durnam, L., Goff, B., **Flannery, J.**, Humphreys, K.L., Telzer, E.H., Caldera, C., Louie, J.Y., Shapiro, M., Bolger, N., & Tottenham, N. (2017). Positive valence bias and parent-child relationship security moderate the association between early institutional caregiving and internalizing symptoms. *Development and psychopathology*, 29(2): 519–533. PMCID: PMC5937229 PMID: 28401841

Fareri D., Laurel Gabard-Durnam. L., Goff, B., **Flannery, J.**, Gee., B., Lumian, D., Caldera, C., & Tottenham, N. (2017). Altered ventral striatal-medial prefrontal cortex resting-state connectivity mediates adolescent social problems after early institutional care. *Development and Psychopathology*, 29(5):1865-1876. PMID: 29162189 PMCID: PMC5957481



**Flannery, J.E.**, Beauchamp, K.G., & Fisher, P.A. (2017). The role of social buffering on chronic disruptions in quality of care: evidence from caregiver-based interventions in foster children. *Social Neuroscience*, 12(1), 86-91. PMID: 27021231 PMCID: PMC5372832

## 2016

Silvers, J.A., Lumian, D.S., Gabard-Durnam, L., Gee, D.G., Goff, B., Fareri, D.S., Caldera, C., **Flannery, J.**, Telzer, E., Humphreys, K., & Tottenham, N. (2016). Previous institutionalization is followed by broader amygdala–hippocampal–PFC network connectivity during aversive learning in human development. *Journal of Neuroscience*, 36(24), 6420-6430. PMID: 27307231 PMCID: PMC5015779

Gabard-Durnam, L.J., Gee, D. G., Goff, B., **Flannery, J.**, Telzer, E., Humphreys, K.L., Lumian, D., Fareri, D., Caldera, C., & Tottenham N. (2016). Stimulus-elicited connectivity influences resting-state connectivity years later in human development: A prospective study. *Journal of Neuroscience*, 36(17), 4771-4784. PMID: 27122035 PMCID: PMC4846673

Green, S.A., Goff, G., Gee, D.G., Gabard-Durnam, L., **Flannery, J.**, Telzer, E.H., Humphreys, K., Louie, J., & Tottenham, N. (2016). Discrimination of amygdala response predicts future separation anxiety in youth with early deprivation. *Journal of Child Psychology and Psychiatry*, 57(10), 1135-1144. PMID: 27260337 PMCID: PMC5030125

Fisher, P.A., Beauchamp, K.G., Roos, L.E., Noll, L.K., **Flannery, J.**, & Delker, B.C. (2016). The Neurobiology of Intervention and Prevention in Early Adversity. *Annual Review of Clinical Psychology*, 12, 331-357. PMID: 26666968

## 2015

Humphreys, K.L., Telzer, E.H., **Flannery, J.**, Goff, B., Gabard-Durnam, L., Gee, D.G., Lee, S.S., & Tottenham, N. (2015). Risky decision making from childhood through adulthood: Contributions of learning and sensitivity to negative feedback. *Emotion*, 16(1), 101. PMID: 26389647 PMCID: PMC4718882

Fareri D.S., Gabard-Durnam, L., Goff B., **Flannery J.**, Gee D.G., Lumian D.S., Caldera C., & Tottenham N. (2015). Normative development of ventral striatal resting state connectivity in humans. *Neuroimage*, 118, 422-437. PMID: 26087377 PMCID: PMC5553607

Telzer, E.H., **Flannery, J.**, Humphreys, K.L., Goff, B., Gabard-Durman, L., Gee, D.G., & Tottenham, N. (2015). “The Cooties Effect”: Amygdala reactivity to opposite- versus same-sex faces declines from childhood to adolescence. *Journal of Cognitive Neuroscience*, 27(9):1685-96. PMID:25848681 PMCID: PMC5723398

Humphreys, K.L., Lee, S.S., Telzer, E.H., Gabard-Durnam, L.J., Goff, B., **Flannery, J.**, & Tottenham, N. (2015). Exploration—Exploitation strategy is dependent on early experience. *Developmental Psychobiology*, 57(3), 313-321. PMID: 25783033 PMCID: PMC5934758

## 2014

Gee\*, D., Gabard-Durnam\*, L., Telzer, E., Humphreys, K., Goff, B., Shapiro, M., **Flannery, J.**, Lumian, D., Fareri, D., Caldera, C., & Tottenham, N. (2014). Maternal buffering of human amygdala–prefrontal circuitry during childhood but not adolescence. *Psychological Science*, 25(11): 2067–2078. PMID: 25280904 PMCID: PMC4377225

Gabard-Durnam, L., **Flannery, J.**, Goff, B., Gee, D., Humphreys, K., Telzer, E., Hare, T., & Tottenham, N. (2014). The development of human amygdala functional connectivity at rest from 4 to 23years: A cross-sectional study. *Neuroimage*, 95, 193-207. PMID: 24662579 PMCID: PMC4305511

## 2013

Gee, D., Gabard-Durnam, L., **Flannery, J.**, Goff, B., Humphreys, K., Telzer, E., Hare, T., Bookheimer, S., & Tottenham, N. (2013). Early developmental emergence of human amygdala–prefrontal connectivity after maternal deprivation. *Proceedings of the National Academy of Sciences*, 110(39), 15638-15643. PMID: 24019460 PMCID: PMC3785723

Goff, B., Gee, D.G., Telzer, E.H., Humphreys, K.L., Gabard-Durnam, L., **Flannery, J.**, & Tottenham, N. (2013). Reduced nucleus accumbens reactivity and adolescent depression following early-life stress. *Neuroscience*, 249, 129-138. PMID: 23262241 PMCID: PMC3646076

Gee, D., Humphreys, K., **Flannery, J.**, Goff, B., Telzer, E., Shapiro, M., Bookheimer, S., & Tottenham, N. (2013). A developmental shift from positive to negative connectivity in human amygdala–prefrontal circuitry. *Journal of Neuroscience*, 33(10), 4584-4593. PMID: 23467374 PMCID: PMC3670947

Telzer, E.H., **Flannery, J.**, Shapiro, M., Humphreys, K., Goff, B., Gabard-Durman, L., Gee, D.G., & Tottenham, N. (2013). Early experience shapes amygdala sensitivity to race: an international adoption design. *Journal of Neuroscience*, 33(33), 13484-13488. PMID: 23946406 PMCID: PMC3742934

Olsavsky, A.K., Telzer, E.H., Shapiro, M., Humphreys, K.L., **Flannery, J.**, Goff, B., & Tottenham, N. (2013). Indiscriminate amygdala response to mothers and strangers after early maternal deprivation. *Biological Psychiatry*, 74(11), 853-860. PMID: 23810622 PMCID: PMC3818506

Tottenham, N., Phuong, J., **Flannery, J.**, Gabard-Durnam, L., & Goff, B. (2013). A negativity bias for ambiguous facial-expression valence during childhood: Converging evidence from behavior and facial corrugator muscle responses. *Emotion*, 13(1), 92. PMID: 22906084 PMCID: PMC4006094

### Book Chapters

Roos, L., Beauchamp, K., **Flannery, J.**, Horn, S., & Fisher, P. (2018) Interventions, Stress During Development, and Psychosocial Environment. *International Handbook of Social Neuroendocrinology*

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### **MENTOR EXPERIENCE**

Project SHORT (Student Health Opportunities and Research Training) 2020

Mentor and consultant for underrepresented PhD Applicant in STEM fields. This position includes researching and providing resources to reduce cost and international barriers, reviewing and editing application materials, and administering mock interviews. International (virtual)

Developmental Social Neuroscience Lab 2020-2021

*University of North Carolina at Chapel Hill*

Leading and Supervising Teen Advisory Panel  
Teen advisory panel consists of high school students with the goal to bring diverse adolescent voices into the forefront of our study design and interpretations. Two students completed an internship project and held 7hours/week positions.

Developmental Social Neuroscience Lab 2017-2018

*University of Oregon*

Supervised two research assistants.  
Each worked minimum of 2 hours/week and held quarterly positions.

<u>Center for Translational Neuroscience's National Science Foundation Workshop</u> <i>University of Oregon</i> Served as a graduate mentor for students applying for NSF-GRFP across disciplines, including Psychology, Biology, Neuroscience, and Computer Science.	2018, 2016
<u>Stress Neurobiology, Prevention and Intervention Lab</u> <i>University of Oregon</i> Supervised two research assistants. Each worked 10-15 hours/week and held 6-month positions.	2016
<u>Developmental Affective Neuroscience Lab</u> <i>University of California, Los Angeles</i> Supervised up to 20 research assistants at any given time. Each worked 10-15 hours/week and held 1-year positions.	2011 - 2013

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## CLINICAL PSYCHOTHERAPY & ASSESSMENT EXPERIENCE

<b>Postdoctoral Clinical Experience</b> <i>University of Washington School of Medicine, Seattle Children's Hospital</i> <i>Dogwood Psychology Center for Children and Families</i> Providing adolescent diagnostic evaluations for an adolescent digital behavioral activation NIH RCT. Leading group therapist for telehealth parent behavioral management training for an NIH RCT. Providing outpatient therapy and psychological assessments. Licensed Psychologist (WA), Provisionally licensed psychologist (passed state and national examinations; NC).	2021-Current
<b>Child Psychology Residency</b> <i>University of Washington School of Medicine, Seattle Children's Hospital</i> Treated patients in a 40-bed inpatient child and adolescent psychiatric behavioral unit. Gained expertise in child and adolescent outpatient therapy and parent-management training. Provided pediatric neuropsychological assessments in both inpatient and medical settings. Trained in trauma, anxiety, OCD, conduct, depression, ADHD, homicidal and suicidal ideation, suicide attempts, severe aggression and self-injury. Co-developed and executed a brief parent behavioral management intervention for families in acute crisis for externalizing behaviors (e.g., severe aggression) following COVID-19.	2019-2020
<b>General Pediatric Psychological and Pediatric Neuropsychology</b> <i>Child Development and Rehabilitation Center, Slocum Center for Orthopedics and Sports Medicine</i> Provided adolescent neuropsychological evaluations. Collaborated on multidisciplinary teams across specialties to provide wraparound care.	2016 – 2019
<b>Child, Adolescent, and Adult Psychotherapy &amp; Diagnostic Assessment</b> <i>University of Oregon, Oregon, Oregon Community Center</i> Completed advanced clinical psychology training in cognitive behavioral therapy, mindfulness-based stress reduction, and mindfulness-based cognitive therapy. Provided evidenced-based care to over 200 clients experiencing depression, anxiety, and suicidal ideation.	2014-2018

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## CLINICAL ASSESSMENT TRAINING

### General Intelligence Testing Batteries

Wechsler Intelligence Scale for Children (WISC V) | Wechsler Adult Intelligence Scale (WAIS IV) | Wechsler Abbreviated Scale of Intelligence (WASI-II) | Wechsler Preschool and Primary Scale of Intelligence-IV (WPPSI-IV)

#### Neuropsychological Batteries

Wechsler Memory Scale (WMS) | California Verbal Learning Test (CVLT) | California Verbal Learning Test- Child (CVLT-C) | Wide Range Assessment of Memory and Learning Second Edition (WRAML2) | A Developmental Neuropsychological Assessment (NEPSY) | Delis-Kaplan Executive Function System (D-KEFS) | Wechsler Individual Achievement Test (WIAT II) | Conners' Continuous Performance Test - Third Edition (CPT-3)

#### Diagnostics Batteries

Kiddie Schedule for Affective Disorders and Schizophrenia (K-SADS) | Children's Depression Rating Scale-Revised (CDRS-R) | Self-Injurious Thoughts and Behaviors Interview (SITBI) | Children's Experience of Care and Abuse (CECA) | Children and Adolescent Needs and Strengths (CANS) 0-5 years old) | Structural Clinical Interview for DSM IV, V (SCID II)

#### Evidenced-Informed Intervention Training

Cognitive Behavioral Therapy (CBT) | Behavioral Activation with Depressed Adolescents (BA) | Collaborative Assessment and Management of Suicidality (CAMS) | Parent Management Training Oregon (PMTO) | Parent Behavioral Management Training (PBMT) | Incredible Years (IY) | Trauma-Focused Cognitive Behavioral Therapy (TF-CBT): online certification | Mindfulness-Based Cognitive Therapy (MBCT) | Mindfulness Based Stress Reduction (MBSR) | Filming Interactions to Nurture Development (FIND) | Multidimensional Treatment Foster Care –Preschool (MTFC-P) | Early Intervention Foster Care (EIFC)

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### **CLINICAL SUPERVISOR EXPERIENCE**

#### Seattle Children's Hospital

2019-2020

Supervised two UW school psychology practicum student in the psychological behavioral management inpatient setting. This included titrating consult requests, determining how to answer consult question and with what tools, interviews, as well as interpretation. Mentored a UW clinical psychology practicum student in the context of neuropsychological interviewing, profile interpretation and report writing. This included individual and live supervision. I followed a tiered supervisory model, in line with the developmental model of supervision.  
Seattle, WA

#### Child Development and Rehabilitation Center (CDRC)

2018

Supervised a school psychology student in the administration of various neuropsychological batteries. This included individual and live supervision. I followed a tiered supervisory model, in line with the developmental model of supervision.  
Eugene, OR

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### **TEACHING EXPERIENCE**

#### Instructor

Co-Instructor, Psychopathology (PSY 469),  
Psychology Department, University of Oregon.

2014

### Guest Lectures

<i>Parental Behavior</i> , Hormones & Behavior (PSY 450), Psychology Department, University of Oregon.	2016
<i>Brain Development</i> , Child Development (PSY 376), Psychology Department, University of Oregon.	2013

### Graduate Teaching Fellow

Mind and Society Brain (PSY 202), Psychology Department, University of Oregon.	2014
Child Development (PSY 376), Psychology Department, University of Oregon.	2014
Thinking (PSY 330), Psychology Department, University of Oregon.	2013

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### **MEDIA OUTREACH**

Roos, L., <b>Flannery, J.</b> “Try these 8 tips to reduce parenting stress during the coronavirus pandemic” <i>The Conversation</i>	2020
Radio interview “A Possible Link Between Gut Bacteria And Kids’ Behavior” <i>Think Out Loud. Oregon Public Broadcasting.</i>	2020
TEDxUOregon “Teen Behaviors—What’s the gut got to do with it?”	2019
Radio interview on teenage risk-taking. <i>BYU Radio, Matt Townsend Show.</i>	2018
<b>Flannery, J.</b> , Berkman, E., & Pfeifer, J. “Teens aren’t just risk machines- there’s a method to their madness” <i>The Conversation</i>	2018
I Study Poop – Adventures from Researchers on the Front Line <i>The Two Brains Blog</i>	2016

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### **OPEN SCIENCE TRAININGS AND CONTRIBUTIONS**

#### Trainings

ABCD-RepoNim Course	2020-2021
Beyond Statistical Significance: Finding Meaningful Effects <u>Directors:</u> NIDA Virtual	2020
Neurohackademy <u>Directors:</u> Ariel Rokem & Tal Yarkoni	2020

Virtual

NIBL fMRI Reproducibility Workshop  
Directors: Burger, K., & Shearrer, G.  
Carborro, NC

2017

BrainHack Global, Eugene Chapter participant

2017, 2018, 2019

### Contributions

**Flannery, J.**, (2019, November). Preregistration: updated challenges and solutions for complex study design. Presented at BrainHack Global, Eugene Chapter.

**Flannery, J.** (2018, October). Flannery Dissertation Preregistration: The “Depressed” Gut-Brain Axis during Adolescence. Retrieved from [osf.io/cb7ys](https://osf.io/cb7ys)

**Flannery, J.**, (2018, May). Preregistration: challenges and solutions for fMRI. Presented at BrainHack Global, Eugene Chapter.

**Flannery, J.** (2018, May). fMRI Preregistration Template. Retrieved from [osf.io/6juft](https://osf.io/6juft)

GitHub: [jessicaflannery](https://github.com/jessicaflannery)

OSF: Jessica Flannery: <https://osf.io/ps7bz/>

NeuroVault collections:

**Flannery** et al., 2017

Op De Macks\* & **Flannery\*** et al., 2018

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## PROFESSIONAL ACTIVITIES AND AFFILIATIONS

### Committees

FLUX Trainee Committee, member

2020-2022

Graduate Admissions Committee, student member

2015 & 2017

### Ad Hoc Reviewer

Developmental Cognitive Neuroscience | Journal of Adolescent Health | Development and Psychopathology | Developmental Psychobiology | Translational Psychiatry | Frontiers

### Membership in Academic Societies

Association for Psychological Science | American Psychological Association | Society for Research on Child Development | Social Affective Neuroscience Society | FLUX Congress

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## PROFESSIONAL WORKSHOPS

Modeling Developmental Change FLUX Pre-Conference Workshop.

2017

Directors: Bryne, M., Mills, K., Pfeifer, J., & Allen, N.  
Portland, OR

Harvard’s Center on the Developing Child:

2017

Frontiers of Innovation Science-Based Innovation Training. <u>Director:</u> Fisher, P. Eugene, OR	
Oregon State University Microbiome Initiative (OMBI): Microbiome Informatics Training Workshop; Microbiome Research Forum. <u>Directors:</u> Sharpton, T., & Zaneveld, J. Corvallis, OR	2017
Modeling Developmental Change: Integrating Advanced Neuroimaging and Statistical Methods. <u>Directors:</u> Bryne, M., & Allen, N. Eugene, OR	2016
NIH Grant Writing Seminar. <u>Directors:</u> Fisher, P., & Kuhl, B. Eugene, OR	2015 & 2017
The 2015 Mortimer D. Sackler, M.D., Summer Institute: The Effects of Acute and Chronic Stress on Brain and Behavior Throughout Development. <u>Directors:</u> Casey, B.J., and Gee, D. New York, NY	2015
The Neurodevelopment of Stress Regulation, Social Buffering and Fear Learning: Integration and Crosstalk. National Science Foundation Grant 1439258. <u>Director:</u> Gunnar, M. Washington, DC	2015

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## ADDITIONAL TRAINING & WORKSHOPS

Data Camp Data Scientist in R Track	2017 – 2021
MRI Operator. <i>40-hour training, 50+ scans as operators</i> University of Oregon	2015 – 2019
MRI Safety Certified. <i>150+ scans</i> University of Oregon	2013 – 2019
Quality Mental Health Professional (QMHP) Trillium   Oregon Community Program	2015
GTF Series Teaching Challenging Content and Facilitating Class Discussions. <i>3-day training</i> University of Oregon	2013
Teaching Effectiveness Program Basic Teaching Training University of Oregon	2013
MRI operator. <i>~100 scans</i> University of California, Los Angeles	2011 - 2013

MRI Safety Certified. *50+ scans*  
University of California, Los Angeles

2011 - 2013