Lara Foland-Ross, Ph.D.

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ACADEMIC POSITIONS / EDUCATION

2019-present	Senior Research Associate, Center for Interdisciplinary Brain Sciences Research Department of Psychiatry, Stanford University
2015-2019	Research Associate, Center for Interdisciplinary Brain Sciences Research Department of Psychiatry, Stanford University
2010-2015	Postdoctoral Fellow, Department of Psychology, Stanford University *Research Focus: Neural markers of risk for mood disorders in adolescents* *Advisor: Ian Gotlib, Ph.D.*
2004-2010	Ph.D., Neuroscience, University of California, Los Angeles *Dissertation Title: Brain structure and function in bipolar type I disorder* *Advisors: Paul Thompson, Ph.D. and Lori Altshuler, M.D.*
1997-2001	B.A., Psychobiology, University of California, Santa Cruz

AWARDS / HONORS

2022	Nominee, Amy J. Blue Award
2021	Stanford Bio-X Star Mentor Award
2013	Travel Scholarship, Society of Biological Psychiatry
2009	Chapter Award, Society for Neuroscience
2009	Dissertation Year Fellowship, UCLA
2008	Travel Fellowship, National Institutes of Health
2007	Outstanding Graduate Trainee Award in Neuroscience, UCLA
2007	Special Course Fellowship, National Institute on Drug Abuse
2007	Travel Award, Organization for Human Brain Mapping
2006	Outstanding Graduate Trainee Award in Neuroscience, UCLA
2006	Travel Award, Organization for Human Brain Mapping
2005	Quality of Graduate Education Special Course Travel Fellowship, UCLA

GRANTS

2018-present	Brain and behavior during puberty in Klinefelter syndrome *NIH (R01 HD092847)*	Co-I

2013-2015	Neural risk factors for depression: An integrative investigation *Brain & Behavior Research Foundation* *(Formerly NARSAD; 19018)*	PI
2013-2016	The effects of early life stress on neurodevelopment in children and adolescents *NIMH / NIH (R01 MH101495)*	Postdoctoral Fellow (PI: Gotlib)
2013-2014	Interpretation bias training in depressed adolescents: Effects and mechanisms *NIMH / NIH (R21 MH101545)*	Postdoctoral Fellow (PI: Gotlib)
2013-2014	Associations between early life stress, amygdala-prefrontal circuitry and vulnerability for psychopathology in children *Stanford Center for Cognitive and Neurobiological Imaging (CNI) seed funding*	PI
2010-2013	Integrative approaches for the examination of brain structure and function in major depressive disorder *NIMH / NIH (F32 MH090617)*	PI
2010-2012	Integrative approaches for the examination of brain structure in major depressive disorder *Hope for Depression Research Foundation*	Co-PI
2006-2009	Brain function and structure in bipolar euthymia *NIMH / NIH (F31 MH078556)*	PI

PUBLICATIONS

1. **Foland-Ross L**, Ghasemi E, Lozano Wun V, Aye T, Kowal K, Ross J, Reiss A (submitted). Reduced function in executive task-based brain regions in adolescents with Klinefelter syndrome.

2. Jordan T, Marzelli M, **Foland-Ross L**, Ross J, Reiss A (submitted). Neuroanatomy in child and adolescent boys with Klinefelter syndrome.

3. Li R, **Foland-Ross L**, Jordan T, Marzelli M, Ross J, Reiss A (submitted). Disrupted resting-state functional connectivity is associated with testosterone, and psychopathology in Klinefelter syndrome (47, XXY).

4. Junger A, Lasecke M, **Foland-Ross L**, Jordan T, Sundstrom J, Lozano Wun V, Witkin G, Kowal K, Ross J, Reiss A (submitted). Social, emotional, and behavioral functioning in adolescents with Klinefelter syndrome.

5. **Foland-Ross L**, Ghasemi E, Lozano Wun V, Aye T, Kowal K, Ross J, Reiss A (submitted). Reduced function in executive task-based brain regions in adolescents with Klinefelter syndrome.

6. Jordan T, Bartholomay K, **Foland-Ross L**, Lightbody A, Reiss A (submitted). Alterations in cortical gray matter structure in girls with Fragile X syndrome.

7. Lozano Wun V, **Foland-Ross L**, Jo B, Green T, Hong D, Ross J, Reiss A (in press). Adolescent brain development in girls with Turner Syndrome. *Human Brain Mapping.*

8. Jordan T**, Foland-Ross L**, Lozano Wun V, Ross J, Reiss A (in press). Cognition, academic achievement, adaptive behavior, and quality of life in child and adolescent boys with Klinefelter syndrome. *Journal of Developmental & Behavioral Pediatrics.*

9. Reiss A, Jo B, Arbelaez A, Tsalikian E, Buckingham B, Weinzimer S, Fox L, Cato A, White N, Tansey M, Aye T, Tamborlane W, Englert K, Lum J, Mazaika P, **Foland-Ross L**, Marzelli M, Mauras N, for the Diabetes Research in Children Network (2022). A pilot randomized trial to examine effects of a hybrid closed-loop insulin delivery system on neurodevelopmental and cognitive outcomes in adolescents with type 1 diabetes. *Nature Communications*: 13, 1-14.

10. Balters S, Schlichting M, **Foland-Ross L**, Brigadoi S, Miller J, Kochenderfer M, Garrett A, Reiss A, (2022). Towards assessing subcortical “deep brain" biomarkers of PTSD with functional near-infrared spectroscopy. *Cerebral Cortex*: 33, 3969-3984.

11. Snyder L, **Foland-Ross L**, Cato A, Reiss A, Shah C, Hossain J, Elmufti, H, Mauras N (2022). Impact of dysglycemia and obesity on the brain in adolescents with and without type 2 diabetes: a pilot study. *Pediatric Diabetes.*

12. **Foland-Ross L**, Gill M, Bade Shrethsa S, Chromik L, Hong D, Reiss A. (2021) Cortical gray matter structure in boys with Klinefelter syndrome. *Psychiatric Research: Neuroimaging*: 313, 111299.

13. Mauras N, Buckingham B, White N, Tsalikian E, Weinzimer S, Jo B, Cato A, Fox L, Aye T, Arbelaez A, Hershey T, Tansey M, Tamorlane W, **Foland-Ross L**, Shen H, Englert K, Mazaika P, Marzelli M, Reiss A, for the Diabetes Research in Children Network (2021) Impact of type 1 diabetes in the developing brain in children: a longitudinal study. *Diabetes Care*: 44, 983–992.

14. Suffren S, La Buissonni.re-Ariza V, S.guin J, Boivin M, Singh M, **Foland-Ross L**, Lepore F, Gotlib I, Tremblay R, Maheu F (2021). Prefrontal cortex and amygdala anatomy in youth with persistent levels of harsh parenting practices and subclinical anxiety symptoms over time during childhood. *Development and Psychopathology*: 34, 957-968.

15. Mazaika P, Marzelli M, Tong G, **Foland-Ross L**, Buckingham B, Aye T, Reiss A, for the Diabetes Research in Children Network (2020). Functional near-infrared spectroscopy detects increased activation of the brain frontal-parietal network in youth with type 1diabetes. *Pediatric Diabetes*: 21, 515-523.

16. **Foland-Ross L**, Tong G, Mauras N, Cato A, Aye T, Tansey M, White N, Weinzimer S, Englert K, Shen H, Mazaika P, Reiss A, for the Diabetes Research in Children Network (2020). Brain function differences in children with type 1 diabetes: a functional MRI study of working memory. *Diabetes*: 69, 1770-1778.

17. **Foland-Ross L**, Buckingham B, Mauras N, Arbaelez A, Tamborlane W, Tsalikian E, Cato A, Tong G, Englert K, Mazaika P, Reiss A, for the Diabetes Research in Children Network (2019). Executive task-based brain function in children with type 1 diabetes: An observational study. *PLOS Medicine*: 16, e1002979.

18. **Foland-Ross L**, Ross J, Reiss A (2019). Androgen treatment effects on hippocampus structure in boys with Klinefelter syndrome. *Psychoneuroendocrinology*: 100, 223-228.

19. Miller J, Ho T, Humphreys K, King L, **Foland-Ross L**, Colich N, Ordaz S, Lin J, Gotlib I (2019). Early life stress, fronto-amygdala connectivity, and biological aging in adolescence: A longitudinal investigation. *Cerebral Cortex*: 30, 4269-4280.

20. Watson K, Wroolie T, Tong G, **Foland-Ross L**, Frangou S, Singh M, McIntyre R, Roat-Shumway S, Reiss A, Rasgon N (2019). Neural correlates of liraglutide effects in persons at risk for Alzheimer's Disease. *Behavioural Brain Research*: 356, 271-278.

21. **Foland-Ross L**, Reiss A, Mazaika P, Mauras N, Weinzimer S, Aye T, Tansey M, White N, for the Diabetes Research in Children Network (2018). Longitudinal assessment of hippocampus structure in children with type 1 diabetes. *Pediatric Diabetes*: 19, 1116-1123.

22. Davis E, **Foland-Ross L**, Gotlib I (2018). Neural correlates of top-down regulation and generation of negative affect in major depressive disorder. *Psychiatry Research Neuroimaging*: 276, 1-8.

23. Colich N, Ho T, Ellwood-Lowe M, **Foland-Ross L**, Sacchet M, LeMoult J, Gotlib I (2017). Like mother like daughter: putamen activation as a mechanism underlying intergenerational risk for depression. *Social Cognitive and Affective Neuroscience*: 12, 1480-1489.

24. Colich N, Ho T, **Foland-Ross L**, Eggleston C, Ordaz S, Singh M, Gotlib I (2017). Hyperactivation in cognitive control and visual attention brain regions during emotional interference in adolescent depression. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*: 2, 388-395.

25. Singh M, Leslie S, **Foland-Ross L**, Weisman E, Bhattacharjee K, Onopa A, Rasgon N (2016). Intrinsic brain connectivity in youth with depression at high risk for insulin insensitivity. *Neuropsychopharmacology:* 41, S185-S186.

26. **Foland-Ross L**, Behzadian N, LeMoult J, Gotlib I (2016). Concordant patterns of brain structure in mothers with recurrent depression and their never-depressed daughters. *Developmental Neuroscience*: 38,115-123.

27. Green T, Fierro K, Raman M, **Foland-Ross L**, Hong D, Reiss A (2016). Sex differences in amygdala shape: Insights from Turner syndrome. *Human Brain Mapping*: 37, 1593-1601.

28. Colich N, **Foland-Ross L**, Eggleston C, Singh M, Gotlib I (2016). Neural aspects of inhibition following emotional primes in depressed adolescents. *Journal of Clinical Child & Adolescent Psychology*: 45, 21-30.

29. Joshi J, Vizueta N, **Foland-Ross L**, Townsend J, Bookheimer S, Thompson P, Narr K, Altshuler L (2016). Relationships between altered fmri activation and cortical thickness in euthymic bipolar I disorder. *Biological Psychiatry Cognitive Neuroscience and Neuroimaging:* 1, 507-517.

30. **Foland-Ross L**, Sacchet M, Prasad G, Gilbert B, Thompson P, Gotlib I (2015). Cortical thickness predicts the first onset of major depression in adolescence. *International Journal of Developmental Neuroscience*: 46, 125-131.

31. **Foland-Ross L**, Gilbert B, Joormann J, Gotlib I (2015). Neural markers of familial risk for depression: An investigation of cortical thickness abnormalities in healthy adolescent daughters of mothers with recurrent depression. *Journal of Abnormal Psychology:* 124, 476-485.

32. Sacchet M, Prasad G, **Foland-Ross L** (2015). Thompson P, Gotlib I. Support vector machine classification of major depressive disorder using diffusion-weighted neuroimaging and graph theory. *Frontiers in Psychiatry:* 6, 21.

33. Colich N, Kircanski K, **Foland-Ross L**, Gotlib I (2015). HPA-axis reactivity interacts with stage of pubertal development to predict the onset of depression. *Psychoneuroendocrinology:* 55, 94-101.

34. LeMoult J, Chen M, **Foland-Ross L**, Burley H, Gotlib I (2015). Concordance of mother-daughter diurnal cortisol production: Understanding the intergenerational transmission of risk for depression. *Biological Psychology:* 108: 98-104.

35. Colich N, **Foland-Ross L**, Eggleston C, Singh M, Gotlib I (2015). Neural aspects of inhibition following emotional primes in depressed adolescents. *Journal of Clinical Child and Adolescent Psychology:* 30, 1-10.

36. Gotlib I, LeMoult J, Colich N, **Foland-Ross L**, Hallmayer J, Joormann J, Lin J, Wolkowitz O (2015). Telomere length and cortisol reactivity in children of depressed mothers. *Molecular Psychiatry:* 20, 615-620.

37. Chen M, Sacchet M, Fuller P, **Foland-Ross L**, Gotlib I, Lu J (2015). Identification of a GABAergic pallidocortical pathway in rodents. *European Journal of Neuroscience*: 41, 748-759.

38. Sacchet M, Prasad G, **Foland-Ross L**, Thompson P, Gotlib I (2014). Elucidating brain connectivity networks in major depressive disorder using classification-based scoring. *Proceedings of the IEEE International Symposium on Biomedical Imaging:* 2014, 246-249.

39. Sacchet M, Prasad G, **Foland-Ross** L, Joshi S, Hamilton J, Thompson P, Gotlib I (2014). Characterizing white matter connectivity in major depressive disorder: automated fiber quantification and maximum density paths. *Proceedings of the IEEE International Symposium on Biomedical Imaging:* 2014, 592-595.

40. **Foland-Ross L**, Kircanski K, Gotlib I (2014). Coping with having a depressed mother: The role of stress and coping in HPA-axis dysfunction in girls at familial risk for major depression. *Development and Psychopathology:* 4, 1401-1409.

41. **Foland-Ross L**, Cooney R, Joormann J, Henry M, Gotlib I (2014). Recalling happy memories in remitted depression: A neuroimaging investigation of the repair of sad mood. *Cognitive, Affective and Behavioral Neuroscience:* 14, 818-826.

42. Gotlib I, Joormann J, **Foland-Ross L** (2014). Understanding familial risk for depression: a 25-year perspective. *Perspectives on Psychological Science:* 9, 94-108.

43. **Foland-Ross L**, Hamilton J, Sacchet M, Furman D, Sherdell L, Gotlib I (2014). Activation of the medial prefrontal and posterior cingulate cortex during encoding of negative material predicts symptom worsening in major depression. *Neuroreport:* 25, 324-329.

44. Sacchet M, Prasad G, **Foland-Ross L**, Joshi S, Hamilton P, Thompson P, Gotlib I (2014). Structural abnormality of the corticospinal tract in major depressive disorder. *Biology of Mood and Anxiety Disorders:* 4, 1-10.

45. **Foland-Ross L**, Hamilton J, Joormann J, Berman M, Jonides J, Gotlib I (2013). The neural basis of difficulties disengaging from negative irrelevant material in major depression. *Psychological Science:* 24, 334-344.

46. **Foland-Ross L**, Thompson P, Sugar C, Narr K, Penfold C, Vasquez R, Townsend J, Fischer J, Saharan P, Bearden C, Altshuler L (2013). Three-dimensional mapping of hippocampal and amygdalar structure in euthymic adults with bipolar disorder not treated with lithium. *Psychiatry Research:* 211, 195-201.

47. Barysheva M, Jahanshad N, **Foland-Ross L**, Altshuler L, Thompson P (2013). White matter microstructural abnormalities in bipolar disorder: A whole brain diffusion tensor imaging study. *NeuroImage: Clinical:* 2, 558–568.

48. Townsend J, Sugar C, Walshaw P, Vasquez R, **Foland-Ross L**, Moody T, Bookheimer S, McGough J, Altshuler L (2013). Frontostriatal neuroimaging findings differ in patients with bipolar disorder who have or do not have ADHD comorbidity. *Journal of Affective Disorders: 147, 389-396.*

49. Hegarty C, **Foland-Ross L**, Narr K, Sugar C, McGough J, Thompson P, Altshuler L (2012). ADHD comorbidity can matter when assessing cortical thickness abnormalities in patients with bipolar disorder. *Bipolar Disorders:* 14, 843-855.

50. **Foland-Ross L**, Gotlib I (2012). Cognitive and neural aspects of information processing in major depressive disorder: an integrative perspective. *Frontiers in Psychology:* 3, 489.

51. Townsend J, Bookheimer S, **Foland-Ross L**, Moody T, Eisenberger N, Fischer J, Cohen M, Sugar C, Altshuler L (2012). Deficits in inferior frontal cortex activation in euthymic bipolar disorder patients during a response inhibition task. *Bipolar Disorders:* 14, 442-450.

52. **Foland-Ross L**, Brooks J 3rd, Mintz J, Bartzokis G, Townsend J, Thompson P, Altshuler L (2012). Mood-state effects on amygdala volume in bipolar disorder. *Journal of Affective Disorders:* 139, 298-301.

53. Hegarty C, **Foland-Ross L**, Narr K, Townsend J, Bookheimer S, Thompson P, Altshuler L (2012). Anterior cingulate activation relates to local cortical thickness. *Neuroreport:* 23, 420-424.

54. **Foland-Ross L**, Bookheimer S, Lieberman M, Sugar C, Townsend J, Fischer J, Torrisi S, Penfold C, Madsen S, Thompson P, Altshuler L (2012). Normal amygdala activation but deficient ventrolateral prefrontal activation in adults with bipolar disorder during euthymia. *Neuroimage:* 59, 738-744.

55. **Foland-Ross L**, Thompson P, Sugar C, Madsen S, Shen J, Penfold C, Ahlf K, Rasser P, Fischer J, Yang Y, Townsend J, Bookheimer S, Altshuler L (2011). Investigation of cortical thickness abnormalities in lithium-free adults with bipolar I disorder using cortical pattern matching. *American Journal of Psychiatry:* 168, 530-539.

56. Brooks J, **Foland-Ross L**, Thompson P, Altshuler L (2011). Preliminary evidence of within-subject changes in gray matter density associated with remission of bipolar depression. *Psychiatric Research:* 192, 53-55.

57. **Foland-Ross L**, Altshuler L, Bookheimer S, Lieberman M, Townsend J, Penfold C, Moody T, Ahlf K, Shen J, Madsen S, Rasser P, Toga A, Thompson P (2010). Amygdala reactivity in healthy adults is correlated with prefrontal cortical thickness. *Journal of Neuroscience:* 30,16673-16678.

58. Altshuler L, Abulseoud O, **Foland-Ross L**, Bartzokis G, Chang S, Mintz J, Hellemann G, Vinters H (2010). Amygdala astrocyte reduction in subjects with major depressive disorder but not bipolar disorder. *Bipolar Disorders:* 12, 541-549.

59. Townsend J, Eberhart N, Bookheimer S, Eisenberger N, **Foland-Ross L**, Cook I, Sugar C, Altshuler L (2010). fMRI activation in the amygdala and the orbitofrontal cortex in unmedicated subjects with major depressive disorder. *Psychiatric Research Neuroimaging:* 183, 209-217.

60. Townsend J, Bookheimer S, **Foland L**, Altshuler L (2010). fMRI abnormalities in dorsolateral prefrontal cortex during a working memory task in manic, euthymic and depressed bipolar subjects. *Psychiatric Research Neuroimaging:* 182, 22-29.

61. **Foland L**, Altshuler L, Sugar C, Leow A, Asuncion DM, Thompson P (2008). Increased amygdala and hippocampus volume in bipolar patients treated with lithium medication. *Neuroreport:* 19, 221-224.

62. **Foland L**, Altshuler L, Eisenberger N, Townsend J, Bookheimer S, Thompson P (2008). Evidence for deficient modulation of amygdala response by prefrontal cortex in bipolar mania. *Psychiatric Research: Neuroimaging:* 162, 27-37.

63. Thomason M, **Foland L**, Glover G (2007). Calibration of BOLD fMRI using breath holding reduces group variance during a cognitive task. *Human Brain Mapping:* 1, 59-68.

BOOK CHAPTERS

64. Sacchet M, **Foland-Ross L**, Gotlib I (2016) Imaging genetics of depression. In Bigos K, Hariri A, Weinberger D (Eds.), *Imaging Genetics: Principle and Practices*. New York: Oxford University Press.

65. **Foland-Ross L**, Hardin M, Gotlib I (2013). Neurobiological markers of familial risk for depression. In Cohen P, Sharp T, Lau J (Eds.), *Current Topics in Behavioral Neurosciences*. Berlin: Springer-Verlag.

66. Bilder R, Poldrack R, Parker D, Reise S, Jentsch J, Cannon T, London E, **Foland L**, Rizk A, Kalar D, Brown N, Carstensen A, Freimer A (2010). Cognitive phenomics. In Wood S, Allen N, & Pantelis C (Eds.), *Handbook of Neuropsychology of Mental Disorders*. London: Oxford University Press.

CONFERENCE PRESENTATIONS (selected)

1. Alva H, Marzelli M, **Foland-Ross L**, Porteus M, Reiss A (2023). A pilot investigation of resting state functional connectivity in patients with sickle cell disease post stem cell transplant. *American Society of Pediatric Hematology/Oncology*; Fort Worth TX.
2. Jordan T, Ghasemi E, Mullis M, Sundstrom J, Alschuler V, Witkin G, DiVirgilio N, Wiscount A, **Foland-Ross L**, Ross J, Reiss A (2022). Cognition, executive function, academic achievement, and behavior in school-aged boys with Klinefelter syndrome. *Cognitive Neuroscience Society*; San Francisco CA.
3. **Foland-Ross L**, Alschuler V, Sundstrom J, Mullis M, DiVirgilio N, Wiscount A, Reynolds V, Ross J, Reiss A (2022). Sex chromosome effects on social processing: A study of Klinefelter syndrome. *Cognitive Neuroscience Society*; San Francisco CA.
4. Ghasemi E, **Foland-Ross L**, Alschuler V, Sundstrom J, Witkin G, Tahsin A, Kowal K, Mullis M, Marzelli M, Ross J, Reiss A (2022). Executive task-based brain function in adolescents with Klinefelter syndrome. *Cognitive Neuroscience Society*; San Francisco CA.
5. Sundstrom J, **Foland-Ross L**, Alschuler V, Mullis M, Witkin G, Kowal K, Ross J, Reiss A (2022). Social-emotional functioning in adolescents with Klinefelter syndrome. *Cognitive Neuroscience Society*; San Francisco CA.
6. Markiv Y, **Foland-Ross L**, Sundstrom J, Alschuler V, Reynolds V, DiVirgilio N, Wiscount A, Ikomi C, Mullis M, Ross J, Reiss A (2022). Biases in the identification of emotional facial expressions in adolescents with Klinefelter syndrome. *Cognitive Neuroscience Society;* San Francisco CA.
7. **Foland-Ross L**, Buckingham B, Mauras N, Tamborlane W, Tsalikian E*,* Cato A, Tong G, Englert K, Mazaika P, Reiss A, for the Diabetes Research in Children Network (2019). Impaired default mode network suppression and compensatory hyperactivation in children with type I diabetes. *American Diabetes Association;* San Francisco CA.
8. Colich N, Ellwood-Lowe M, Ho T, **Foland-Ross L**, LeMoult J, Gotlib I (2017). Putamen response as a mechanism underlying the intergenerational transmission of reward processing. *Society for Research in Child Development;* Austin, TX.
9. Leslie S, **Foland-Ross L**, Bhattacharjee K, Soudi L, Onopa A, Singh M (2016). Resting-state functional connectivity of the amygdala in healthy offspring of parents with mood disorders. *American Academy of Child & Adolescent Psychiatry*; New York, NY.
10. Singh M, Wei M, Soudi L, Raman M, **Foland-Ross L**, DeGeorge D, Chang K (2016). Longitudinal thalamic neuroanatomy in adolescents with bipolar I disorder. *American Academy of Child & Adolescent Psychiatry*; New York, NY.
11. **Foland-Ross L**, Hong D, Reiss A (2016). Influence of sex chromosome trisomy on surface anatomy in prepubertal boys. *Society of Biological Psychiatry;* Atlanta, GA.
12. Davis E, **Foland-Ross L**, Colich N, Gotlib I (2016). Neural mechanisms underlying the generation of negative affect in major depressive disorder. *Society of Biological Psychiatry;* Atlanta, GA.
13. Singh M, Phillips O, Bhattacharjee K, Hernandez M, **Foland-Ross L**, Gotlib I (2016). Neurobiological markers of stress in youth offspring of parents with mood disorders. *Society of Biological Psychiatry;* Atlanta, GA.

14. Green T, Fierro K, Raman M, **Foland-Ross L**, Hong D, Reiss A (2016). Sex differences in amygdala shape: Insights from Turner syndrome. *Society of Biological Psychiatry;* Atlanta, GA.
15. **Foland-Ross L**, Sacchet M, Prasad G, Gilbert B, Thompson P, Gotlib I (2014). Neuroanatomical predictors of the onset of major depression in adolescence, *Society of Biological Psychiatry*; New York, NY.
16. **Foland-Ross L**, Gotlib I (2014). An integrative investigation of neural function and structure in major depression. *Society of Biological Psychiatry*; New York, NY.
17. LeMoult J, **Foland-Ross L**, Sorenson J, Ordaz S, Bergman S, Gotlib I (2014). Effects of working memory training in major depressive disorder: facilitating scientific translation. *Society of Biological Psychiatry*; New York, NY.
18. Gotlib I, **Foland-Ross L,** Colich N, Kircanski K, Singh M, Joormann J (2014). The impact of early stress on the development of neural circuitry in pre-pubertal children: gender differences and emotional and cognitive functioning. *Society of Biological Psychiatry*; New York, NY.
19. Sacchet M, Chen M, Fuller P, **Foland-Ross L**, Lu J, Gotlib I (2014). Globus pallidus externa projections to frontal cortex. *Society of Biological Psychiatry*; New York, NY.
20. Sacchet M, Prasad G, **Foland-Ross L**, Joshi S, Hamilton P, Thompson P, Gotlib I (2014). Automated identification of abnormal fiber tracts in major depressive disorder. *Organization for Human Brain Mapping*; Hamburg, Germany.
21. Sacchet M, Prasad G, **Foland-Ross L**, Thompson P, Gotlib I (2014). Characterizing abnormal brain networks in major depressive disorder using machine learning. *Organization for Human Brain Mapping*; Hamburg, Germany.
22. **Foland-Ross L**, Gotlib I (2013). Reduced orbitofrontal gray matter density is associated with HPA-axis dysregulation in major depression. *Society of Biological Psychiatry*; San Francisco, CA.
23. **Foland-Ross L**, Gotlib I (2013). Cortical thinning in children of depressed mothers varies as a function of pubertal status. *Society of Biological Psychiatry*; San Francisco, CA.
24. Kircanski K, **Foland-Ross L,** Gotlib I (2013). Increased waking cortisol emerges during pubertal development in girls at risk for depression. *Society of Biological Psychiatry*, San Francisco, CA.
25. Colich N, **Foland-Ross L**, Kircanski K, Gotlib I (2013). Risk for depression: the role of puberty, stress reactivity and familial history. *Society of Biological Psychiatry*, San Francisco, CA.
26. Hamilton P, **Foland-Ross L**, Gotlib I (2013). Ventral cingulate hyper-response as a function of pubertal onset in the risk for depression. *Society of Biological Psychiatry*, San Francisco, CA.
27. **Foland-Ross L**, Kircanski K, Gotlib I (2013). Coping with having a depressed mother: The role of stress and coping in HPA-axis dysfunction in girls at familial risk for major depression. *Society for Research in Child Development,* Seattle, WA.
28. Colich N, **Foland-Ross L**, Hamilton P, Gotlib I (2012). Inhibition in the presence of emotional stimuli in adolescents with major depressive disorder. *Society for Research in Psychopathology,* Ann Arbor, MI.

29. **Foland-Ross L**, Gilbert B, Raman M, Burley H, Reiss A, Gotlib I (2012). Evidence of abnormal cortical gray matter development in healthy girls at risk for major depression. *Society of Biological Psychiatry*; Philadelphia, PA.

30. Sacchet M, **Foland-Ross L**, Hamilton J, Sherdell L, Gotlib I (2012). Activations in posterior cingulate and subcallosal gyrus during affective encoding predict change in symptomatology in major depressive disorder. *Society of Biological Psychiatry*; Philadelphia, PA.

31. **Foland-Ross L**, Thompson P, Madsen S, Shen J, Penfold C, Ahlf K, Nguyen T, Rasser P, Yang Y, Townsend J, Bookheimer S, Fischer J, Altshuler L (2010). Gray matter thinning in frontal and anterior cingulate cortices is associated with course of illness in adults with bipolar type I disorder. *Society for Neuroscience*; Chicago, IL.

32. **Foland-Ross L,** Bookheimer S, Leow A, Townsend J, Shen J, Penfold C, Ahlf K, Madsen S, Fischer J, Thompson P, Altshuler L (2010). Decreased white matter microstructure in prefrontal cortex in euthymic bipolar patients revealed with diffusion tensor imaging. *Eighth International Conference on Bipolar Disorder;* Pittsburgh, PA.

33. **Foland-Ross L,** Bookheimer S, Townsend J, Shen J, Penfold C, Ahlf K, Madsen S, Fischer J, Thompson P, Altshuler L (2009). Decreased gray matter density in orbitofrontal cortex and anterior cingulate in euthymic bipolar patients revealed with cortical pattern matching. *Eighth International Conference on Bipolar Disorder;* Pittsburgh, PA.

34. **Foland-Ross L,** Bookheimer S, Penfold C, Shen J, Townsend J, Ahlf K, Madsen S, Fischer J, Thompson P, Altshuler L (2009). Activation level of the amygdala is associated with decreased prefrontal cortical thickness cortex in healthy subjects, but not in patients with bipolar type I disorder. *Organization for Human Brain Mapping;* San Francisco, CA.

35. **Foland-Ross L,** Bookheimer S, Townsend J, Shen J, Penfold C, Ahlf K, Madsen S, Fischer J, Thompson P, Altshuler L (2009). Mapping the relationship between brain structure and function during a behavioral inhibition task in patients with bipolar disorder. *Society of Biological Psychiatry;* Vancouver, Canada.

36. den Braber A, van 't Ent D, Cath D, Boomsma D, Barysheva M, Lee A, **Foland L,** Stein J, Thompson P, De Geus E (2009). A DTI study of monozygotic twins discordant for obsessive compulsive symptoms. *Organization for Human Brain Mapping;* San Francisco, CA.

37. Townsend J, **Foland L,** McGough J, Fischer J, Bookheimer S, Altshuler L (2009). Inferior frontal cortex dysfunction during an inhibition task in adult ADD/ADHD compared with control subjects using fMRI. *Organization for Human Brain Mapping;* San Francisco, CA.

38. Daley M, Mittal V, van Erp T, O'Neill J, Loesch I, Altshuler L, **Foland L**, Cannon T (2009). Medial temporal lobe volumes in early-onset psychosis and bipolar disorder. *American Academy of Child and Adolescent Psychiatry;* Honolulu, HI.

39. **Foland L**, Townsend J, Bookheimer S, Thompson P, Altshuler L (2008). A functional magnetic resonance imaging study of bipolar disorder: elucidation of state- and trait-related changes in prefrontal cortex. *Society of Biological Psychiatry;* Washington D.C.

40. **Foland L,** Altshuler L, Narr K, Bartzokis G, Alaghband Y, Townsend J, Toga A, Thompson P (2008). Can brain structure change with mood? An exploratory analysis of mood-state related changes in amygdala volume in subjects with bipolar disorder. *American Psychiatric Association;* Washington D.C.

41. Townsend J, Bookheimer S, **Foland L,** Altshuler L (2008). Working memory network differences in bipolar mania and euthymia: an fMRI study. *Society of Biological Psychiatry;* Washington D.C.

42. **Foland L,** Altshuler L, Sugar C, Leow A, Toga A, Thompson P (2007). Lithium and mood state effects on brain structure in subjects with bipolar disorder. *Society for Neuroscience;* San Diego, CA.

43. Townsend J, Altshuler L, Cohen M, Eisenberger N, **Foland L,** Bookheimer S (2007). Persistent deficits in orbitofrontal cortex function in euthymic bipolar subjects. *Society for Neuroscience;* San Diego, CA.

44. **Foland L**, Altshuler L, Eisenberger N, Townsend J, Bookheimer S, Thompson P (2007). Functional connectivity of fronto-limbic networks in bipolar mania during an affective faces task. *Organization for Human Brain Mapping;* Chicago, IL.

45. **Foland L**, Altshuler L, Leow A, Lee A, Lu A, Asuncion D, Toga A, Thompson P (2006). A tensor-based morphometric study of bipolar disorder. *Organization for Human Brain Mapping;* Florence, Italy.

46. **Foland L**, Thomason M, FIRST BIRN, Glover G (2004). Calibration of fMRI activation for the FIRST BIRN project. *International Society for Magnetic Resonance in Medicine*; Kyoto, Japan.

47. **Foland L**, Thomason M, FIRST BIRN, Glover G (2004). Calibrating functional MRI data across subjects and scan sites. *Society for Neuroscience;* San Diego, CA.

INVITED TALKS AND ORGANIZED SYMPOSIA

6/2023	Social and emotional function in boys and teens with Klinefelter syndrome. The Association for X and Y Chromosome Variations (AXYS) Virtual Family Conference.
6/2023	Brain structure and function in boys and teens with Klinefelter syndrome. The Association for X and Y Chromosome Variations (AXYS) Virtual Family Conference.
6/2022	Cognition and type 1 diabetes in children and adolescents. *American Diabetes Association*; New Orleans, LA.
3/2021	Social and emotional function in adolescents with Klinefelter Syndrome. The Association for X and Y Chromosome Variations (AXYS); Webinar.
5/2013	Cortical thinning in children of depressed mothers varies as a function of pubertal status. *Society of Biological Psychiatry*; San Francisco, CA.
4/2013	Coping with having a depressed mother: the role of stress and coping in HPA-axis dysfunction in girls at familial risk for major depression. *Society for Research in Child Development;* Seattle, WA.
4/2012	Understanding the neural basis of difficulties disengaging from negative irrelevant material in major depression. Affective Sciences Seminar, Stanford University, Stanford, CA.
2/2010	Gray matter thinning in frontal and anterior cingulate cortices in bipolar individuals are related to deficits in brain function. USC Emotion and Cognition Laboratory Seminar, Los Angeles, CA.

2/2010	Brain structure and function in bipolar euthymia. Psychoses Seminar, UCLA Psychology Department, Los Angeles, CA.
10/2009	Gray matter thinning in frontal and anterior cingulate cortices is associated with course of illness in adults with bipolar type I disorder. *Society for Neuroscience*; Chicago, IL.
1/2009	Fronto-limbic circuitry in bipolar disorder: evidence for deficient prefrontal modulation of amygdala response in bipolar mania. Colloquium, National Institute of Mental Health (NIMH), Washington, D.C.
1/2009	Relating brain structure and function in fronto-limbic circuits of bipolar disorder. Psychoses Seminar, UCLA Psychology Department, Los Angeles, CA.
11/2007	Lithium and mood state effects on brain structure in subjects with bipolar disorder. *Society for Neuroscience*; San Diego, CA.
11/2006	Deficient modulation of amygdala activity by prefrontal cortex in bipolar mania. *Society for Neuroscience*; Atlanta, GA.
10/2006	Abnormalities of fronto-Limbic circuitry in bipolar mania. UCLA Neuroscience Graduate Forum, Los Angeles, CA.

SERVICE

2023	Member, Well-being Advisory Committee Department of Psychiatry and Behavioral Sciences, Stanford University
2015-2022	Mentor, Letters to a Pre-Scientist
2015-2020	Member, Board of Directors, Institute for Applied Neuroscience
2004-present	Ad hoc reviewer: *American Journal of Psychiatry, JAMA Psychiatry, Journal of the American Academy of Child and Adolescent Psychiatry, Biological Psychiatry, Human Brain Mapping, Journal of Psychiatric Research, Journal of Abnormal Psychology, Bipolar Disorders.*

TEACHING EXPERIENCE

2015-2023	Instructor, Center for Interdisciplinary Brain Sciences Summer Course: Introduction to neuroanatomy and structural MRI analysis
2019	Guest lecturer, Stanford University School of Medicine Child Psychiatry Fellow Neuroscience Course
2008	Teaching Assistant, UCLA Graduate Neuroscience Program Course: Neuroanatomy
2001	Teaching Assistant, Center for Adaptive Optics, University of California, Santa Cruz Course: California State Summer School for Mathematics and Science

2001 Teaching Assistant, Department of Biology, University of California, Santa Cruz
Course: Introduction to Psychobiology

RESEARCH MENTORSHIP EXPERIENCE

2023-2024 Honors Thesis Supervisor, Department of Biology, Stanford University.
Mia Bennet: Neural markers of executive dysfunction in adolescent males with Klinefelter syndrome.

2023 Supervisor, Human Biology Research Exploration Program (HBREX), Stanford University. *Rachel Bahk: Structural alterations in cortical gray matter in adolescent males with Klinefelter syndrome: associations with behavior.*

2023 Supervisor, Human Biology Research Exploration Program (HBREX), Stanford University. *Annie Vo: Structural neuroanatomy in adolescent males with Klinefelter syndrome: associations with puberty.*

2023 Supervisor, Human Biology Research Exploration Program (HBREX), Stanford University. *Anna Kiesewetter: Neurodevelopment in Klinefelter syndrome.*

2023 Supervisor, Stanford Bio-X Undergraduate Summer Research Program (BioX) Stanford University. *Genessi Lizama: Pubertal maturation effects on brain structure in typically developing males.*

2022 Supervisor, Human Biology Research Exploration Program (HBREX), Stanford University. *Mia Bennet: Performance based alterations of social and emotional function in adolescent males with Klinefelter syndrome.*

2020 Mentor, Stanford Institutes of Medicine Summer Research (SIMR), Stanford University. *Ermela Negash: Brain structure in peripubertal boys* with Klinefelter syndrome.

2019 Supervisor, Stanford Institutes of Medicine Summer Research (SIMR), Stanford University. *Alexander Chen: Brain and behavior in peripubertal boys with Klinefelter syndrome.*

2017 Supervisor, Human Biology Research Exploration Program (HBREX), Stanford University. *Mustafa Fattah: Brain structure in children with type 1 diabetes.*

2014 Psych Summer Supervisor, Department of Psychology, Stanford University.
Negin Behzadian: Neural markers of a risk for depression.

2011-2012 Honors Thesis Supervisor, Department of Psychology, Stanford University
Elise Gibbs: Hypothalamic-pituitary-adrenal function in major depressive disorder.

2011-2012 Honors Thesis Supervisor, Department of Psychology, Stanford University
Sara Leslie: Cortical thickness reductions in major depression: relation with lifetime stress.

CLINICAL EXPERIENCE

2019-present	Neuropsychological assessment administration Center for Interdisciplinary Brain Sciences, Stanford University, CA Supervisors: Tracy Jordan, Psy.D., Mark Biedelman, Psy.D.
2001-2003	Neurofeedback technician Brainwave Center, Santa Cruz, CA Supervisor: Steven Padgitt, Ph.D.
2000	Neurology clinic intern Memory and Aging Center, University of California, San Francisco, CA Supervisor: Bruce Miller, M.D.

TECHNICAL SKILLS

Data modalities:	MRI, fMRI, fNIRS, EEG, neuropsychological assessment, questionnaires, structured clinical interviews, hormones, genetics, physical examination.
Neuroimaging analysis:	FSL, AFNI, SPM, R, Freesurfer, ITKgray, MrVista, DTIPrep, SwE, Neurosynth, Minc Tool Kit
Statistics:	Independent components analysis, spatial regression, temporal regression, parametric modulation, mediation, moderation, machine learning, psychophysiological interaction, linear mixed effects models
Database:	REDCap, FileMaker Pro, Flywheel, EPIC, Excel
Cognitive assessment:	D-KEFS, WISC, WASI, CPT-3, BRIEF, NIH Toolbox