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CURRICULUM VITAE
Emory University
Department of Psychology

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EDUCATION AND TRAINING

Undergraduate:

1998-2000	University of Rochester Rochester, NY		Brain and Cognitive Science, Psychology
2002	University of Wisconsin	B.A.	Psychology

Graduate:

2003-2009	State University of New York – Binghamton Binghamton, NY	M.S., 2007 Ph.D., 2009	Clinical Psychology

Dissertation title: Effortful control, executive inhibition, and personality dysfunction: Bridging temperament, neurocognition, and psychopathology

Primary dissertation advisor: Steven Jay Lynn, Ph.D.

2008-2009	Western Psychiatric Institute and Clinic University of Pittsburgh Medical Center Pittsburgh, PA	Predoctoral Internship

Postgraduate:

2009-2012	Postdoctoral Fellowship, Department of Psychiatry, University of Pittsburgh Medical Center Pittsburgh, PA	Paul Pilkonis, Ph.D., Beatriz Luna, Ph.D., Mentors

PROFESSIONAL EXPERIENCE

ACADEMIC:

2026-	Professor, Department of Psychology, Emory University
2025-2026	Professor, Department of Psychology and Neuroscience, University of North Carolina at Chapel Hill
2022-2026	Director, Human Neuroscience Group, Department of Psychology and Neuroscience, University of North Carolina at Chapel Hill
2020-2025	Associate Professor, Department of Psychology and Neuroscience, University of North Carolina at Chapel Hill
2015-2020	Assistant Professor, Department of Psychology and Institute for Computational and Data Sciences, The Pennsylvania State University, and Director, Developmental Personality Neuroscience Laboratory
2015-	Adjunct Professor, Department of Psychiatry, University of Pittsburgh
2013-2015	Assistant Professor, Department of Psychiatry, University of Pittsburgh
2012-2013	Research Assistant Professor, Department of Psychiatry, University of Pittsburgh
2011-2012	Postdoctoral Fellow, Center for the Neural Basis of Cognition, Pittsburgh, PA
2009-2012	Postdoctoral Scholar, Department of Psychiatry, University of Pittsburgh
2008-2009	Clinical Psychology Intern, Western Psychiatric Institute and Clinic, University of Pittsburgh
2007	Interim Statistics and SAS Instructor, Academic Computing Services, SUNY-Binghamton
2004-2008	Statistical Consultant, Department of Oncological Sciences, Mount Sinai School of Medicine
2003-2008	Graduate Research and Teaching Assistant, Department of Psychology, SUNY-Binghamton

NON-ACADEMIC:

2024-	Licensed Psychologist #6517 and Health Services Provider. State of North Carolina
2000-2003	Senior Web Programmer, HBG New Media, Inc., Madison, WI

MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

2022-present	Elected Member, Society of Multivariate Experimental Psychology
2016-present	Member, Society for Neuroeconomics
2007-present	Member, Society for Research in Psychopathology
2014-2015	Member, Society for Personality Assessment
2014-2021	Member, Flux Society
2012-2021	Member, Association for Psychological Science
2010-2020	Member, Organization for Human Brain Mapping

HONORS

Graduate Mentoring Award, Penn State University, Department of Psychology, May 2020

International Society for the Study of Personality Disorders Young Investigator. October 2019

NIH Loan Repayment Extramural Program, July 2013–July 2017 (L30 MH101859).

American College of Neuropsychopharmacology Early Career Travel Award, December 2014.

Junior Scientist Travel Award for the American Psychopathological Association Annual Convention, March 2010 (R13 MH082613).

Junior Scientist Travel Award for the American Psychopathological Association Annual Convention, March 2008 (R13 MH082613).

Pass with Distinction, Psychopathology and Psychotherapy Doctoral Qualifying Exams. SUNY-Binghamton. February 2007.

Bausch and Lomb Scholarship for Academic Excellence in Science: September 1998-May 2000.

Rush Rhees Scholarship for Academic Merit: September 1998-May 2000.

BIBLIOGRAPHY AND PRODUCTS OF SCHOLARSHIP

Refereed Articles

1. Schnur, J. B., **Hallquist, M. N.**, Bovjberg, D. H., Silverstein, J. H., Stojceska, A., & Montgomery, G. H. (2007). Predictors of expectancies for post-surgical pain and fatigue in breast cancer surgical patients. *Personality and Individual Differences, 42*, 419-429. PMCID: 2583097.

2. Kirsch, I., Mazzoni, G., Roberts, K., Dienes, Z., **Hallquist, M. N.**, Williams, J. C., & Lynn, S. J. (2008). Slipping into trance. *Contemporary Hypnosis, 25*, 202-209.

3. Schnur, J. B., Montgomery, G. H., **Hallquist, M. N.**, Goldfarb, A. B., Silverstein, J. H., Weltz, C. R., Kowalski, A. V., & Bovbjerg, D. H. (2008). Anticipatory psychological distress in women scheduled for diagnostic and curative breast cancer surgery. *International Journal of Behavioral Medicine, 15*, 21-28.

4. Montgomery, G. H., Kangas, M., David, D., **Hallquist, M. N.**, Green, S., Bovbjerg, D. H., & Schnur, J. B. (2009). Fatigue during breast cancer radiotherapy: An initial randomized study of CBT plus hypnosis. *Health Psychology, 28*, 317-322.

5. Elinoff, V., Lynn, S. J., Ochiai, H., & **Hallquist, M. N.** (2009). The efficacy of Kiko exercises on the prevention of migraine headaches: A pilot study. *American Journal of Chinese Medicine, 37*, 459-470.

6. Montgomery, G. H., **Hallquist, M. N.**, Schnur, J. B., David, D., Silverstein, J. H., & Bovbjerg, D. H. (2010). Mediators of a brief hypnosis intervention to control side effects in breast surgery patients: Response expectancies and emotional distress. *Journal of Consulting and Clinical Psychology, 78*, 80-88. PMCID: 2819459.

7. Stepp, S. D., **Hallquist, M. N.**, Morse, J. Q., & Pilkonis, P. A. (2011). Multimethod investigation of interpersonal functioning in borderline personality disorder. *Personality Disorders: Theory, Research, and Treatment, 2*, 175-192. PMCID: 3146035.

8. Stepp, S. D., Smith, T. D., Morse, J. Q., **Hallquist, M. N.**, & Pilkonis, P. A. (2012). Prospective associations among borderline personality disorder symptoms, interpersonal problems, and aggressive behaviors. *Journal of Interpersonal Violence, 27*, 103-124. PMCID: 3575083.

9. Stepp, S. D., Yu, L., Miller, J. D., **Hallquist, M. N.**, Trull, T. J., & Pilkonis, P. A. (2012). Integrating competing dimensional models of personality: Linking the SNAP, TCI, and NEO using item response theory. *Personality Disorders: Theory, Research, & Treatment, 3*, 107-126. PMCID: 3794671.

10. **Hallquist, M. N.,** & Pilkonis, P. A. (2012). Refining the phenotype of borderline personality disorder: Diagnostic criteria and beyond. *Personality Disorders: Theory, Research, & Treatment, 3*, 228-246. PMCID: 3569527.

11. van de Schoot, R., Hoijtink, H., **Hallquist, M. N.**, & Boelen, P. A. (2012). Bayesian evaluation of inequality-constrained hypotheses in SEM models using Mplus. *Structural Equation Modeling, 19*, 593-609. PMCID: 3868481.

12. **Hallquist, M. N.**, Hwang, K., & Luna, B. (2013). The nuisance of nuisance regression: Spectral misspecification in a common approach to resting-state fMRI preprocessing reintroduces noise and obscures functional connectivity. *NeuroImage, 82*, 208-225. PMCID: 3759585.

13. **Hallquist, M. N.** & Lenzenweger, M. F. (2013). Identifying latent trajectories of personality disorder symptom change: Growth mixture modeling in the Longitudinal Study of Personality Disorders. *Journal of Abnormal Psychology, 122*, 138-155. PMCID: 3570677.

14. Hwang, K., **Hallquist, M. N.**, & Luna, B. (2013). The development of hub architecture in the human functional brain network. *Cerebral Cortex, 23*, 2380-2393. PMCID: 3767958.

15. Scott, L. N., Kim, Y., Nolf, K. A., **Hallquist, M. N.**, Wright, A. G. C., Stepp, S. D., Morse, J. Q., & Pilkonis, P. A. (2013). Preoccupied attachment and emotional dysregulation: Specific aspects of borderline personality disorder or general dimensions of personality pathology? *Journal of Personality Disorders, 27*, 473-495. PMCID: 3723709.

16. Wright, A. G. C., **Hallquist, M. N.**, Beeney, J. E., & Pilkonis, P. A. (2013). Borderline personality pathology and the stability of interpersonal problems. *Journal of Abnormal Psychology, 122*, 1094-1100. PMCID: 3874134.

17. Wright, A. G. C., **Hallquist, M. N.**, Morse, J. Q., Scott, L. N., Stepp, S. D., Nolf, K. A., & Pilkonis, P. A. (2013). Clarifying interpersonal heterogeneity in borderline personality disorder using latent mixture modeling. *Journal of Personality Disorders, 27*, 125-143. PMCID: 3607958.

18. Beeney, J. E., Levy, K. N., Gatzke-Kopp, L. M., & **Hallquist, M. N.** (2014). EEG asymmetry in borderline personality disorder and depression following rejection. *Personality Disorders: Theory, Research, and Treatment, 5*, 178-185. PMCID: 4137775.

19. **Hallquist, M. N.** & Wright, A. G. C. (2014). Mixture modeling methods for the assessment of normal and abnormal personality I: Cross-sectional models. *Journal of Personality Assessment, 96*, 256-268. PMCID: 4323162.

20. Montgomery G. H., David, D., Kangas, M., Green, S., Sucala, M., Bovbjerg, D. H., **Hallquist, M. N.**, & Schnur, J. B. (2014). A randomized clinical trial of a cognitive-behavioral therapy plus hypnosis intervention to control fatigue in breast cancer radiotherapy patients. *Journal of Clinical Oncology, 32*, 557-563. PMCID: 3918539.

21. Simmonds, D. J., **Hallquist, M. N.**, Asato, M., & Luna, B. (2014). Developmental stages and sex differences of white matter and behavioral development through adolescence: A longitudinal diffusion tensor imaging (DTI) study. *NeuroImage, 92*, 356-368. PMCID: 4301413.

22. Stepp, S. D., Scott, L. N., Morse, J. Q., Nolf, K. A., **Hallquist, M. N.**, & Pilkonis, P. A. (2014). Emotion dysregulation as a maintenance factor of borderline personality disorder features. *Comprehensive Psychiatry, 55*, 657-666. PMCID: 3965595.

23. Szanto, K., Clark, L., **Hallquist, M. N.**, Vanyukov, P., Crockett, M., & Dombrovski, A. Y. (2014). The cost of social punishment and high-lethality suicide attempts in the second half of life. *Psychology and Aging, 29*, 84-94. PMCID: 4051315.

24. Wright, A. G. C. & **Hallquist, M. N.** (2014). Mixture modeling methods for the assessment of normal and abnormal personality II: Longitudinal models. *Journal of Personality Assessment, 96*, 269-282. PMCID: 3947401.

25. Wright, A. G. C., **Hallquist, M. N.**, Swartz, H. A., Frank, E., & Cyranowski, J. M. (2014). Treating co-occurring depression and anxiety: modeling the dynamics of psychopathology and psychotherapy using the time-varying effect model. *Journal of Consulting and Clinical Psychology, 82*, 839-853. PMCID: 3955740.

26. Beeney, J. E., Stepp, S. D., **Hallquist, M. N.**, Scott, L. N., Wright, A. G. C., Ellison, W. D., Nolf, K. A., & Pilkonis, P. A. (2015). Attachment and social cognition in borderline personality disorder: Specificity in relation to antisocial and avoidant personality disorders. *Personality Disorders: Theory, Research, and Treatment, 6*, 207-215. PMCID: 4509943.

27. **Hallquist, M. N.**, Hipwell, A. E., & Stepp, S. D. (2015). Poor self-control and harsh punishment in childhood prospectively predict borderline personality symptoms in adolescent girls. *Journal of Abnormal Psychology, 124*, 549-564. PMCID: 4573776.

28. Marek, S., Hwang, K., Foran, W., **Hallquist, M. N.**, & Luna, B. (2015). The contribution of network organization and integration to the development of cognitive control. *PLOS Biology, 13*, e1002328.

29. Paulsen, D. J., **Hallquist, M. N.**, Geier, C. F., & Luna, B. (2015). Effects of incentives, age, and behavior on brain activation during inhibitory control: A longitudinal fMRI study. *Developmental Cognitive Neuroscience, 11*, 105-115. PMCID: 4323861.

30. Scott, L. N., Stepp, S. D., **Hallquist, M. N.**, Whalen, D. J., Wright, A. G. C., & Pilkonis, P. A. (2015). Daily shame and hostile irritability in adolescent girls with borderline personality disorder symptoms. *Personality Disorders: Theory, Research, and Treatment, 6*, 53-63. PMCID: 4294430.

31. Siegle, G. J., D'Andrea, W., Jones, N., **Hallquist, M. N.**, Stepp, S. D., Fortunato, A., Morse, J. Q., Pilkonis, P. A. (2015). Prolonged physiological reactivity and loss: Association of pupillary reactivity with negative thinking and feelings. *International Journal of Psychophysiology, 98*, 310-320. PMCID: 4794271.

32. Szanto, K., de Bruin, W., Parker, A. M., **Hallquist, M. N.**, Vanyukov, P. M., & Dombrovski, A. Y. (2015). Decision-making competence and attempted suicide. *Journal of Clinical Psychiatry, 76*, 1590-1597.

33. Vanyukov, P. M., Szanto, K., Siegle, G. J., **Hallquist, M. N.**, Reynolds, C. F., Aizenstein, H. J., & Dombrovski, A. Y. (2015). Impulsive traits and unplanned suicide attempts predict exaggerated prefrontal response to angry faces in the elderly. *American Journal of Geriatric Psychiatry, 23*, 829-839. PMCID: 4528975.

34. Wright, A. G. C., Scott, L. N., Stepp, S. D., **Hallquist, M. N.**, & Pilkonis, P. A. (2015). Personality pathology and interpersonal problem stability. *Journal of Personality Disorders, 29*, 684-706. PMCID: 4492913.

35. Beeney, J. E., **Hallquist, M. N.**, Ellison, W. D., & Levy, K. N. (2016). Self-other disturbance in borderline personality disorder: neural, self-report and behavioral data. *Personality Disorders: Theory, Research, and Treatment, 7*, 28-39. PMCID: 4659768.

36. O'Hearn, K., Velanova, K., Lynn, A., Wright, C., **Hallquist, M.**, Minshew, N., & Luna, B. (2016). Abnormalities in brain systems supporting individuation and enumeration in autism. *Autism Research, 9*, 82-96.

37. Vanyukov, P. M., Szanto, K., **Hallquist, M. N.**, Siegle, G. J., Reynolds, C. F., Forman, S. D., Aizenstein, H. J., & Dombrovski, A. D. (2016). Paralimbic and lateral prefrontal encoding of reward value during intertemporal choice in attempted suicide. *Psychological Medicine, 46*, 381-391.

38. Wright, A. G. C., **Hallquist, M. N.**, Stepp, S. D., Scott, L. N., Beeney, J. E., Lazarus, S. A., & Pilkonis, P. A. (2016). Modeling heterogeneity in momentary interpersonal and affective dynamic processes in borderline personality disorder. *Assessment, 23*, 484-495.

39. Wright, A. G. C., Zalewski, M., **Hallquist, M. N.**, Hipwell, A. E., & Stepp, S. D. (2016). Developmental trajectories of borderline personality disorder symptoms and psychosocial functioning in adolescence. *Journal of Personality Disorders, 30*, 351-372. PMCID: 4676743.

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41. Ross, J. M., Girard, J. M., Wright, A. G. C., Beeney, J. E., Scott, L. N., **Hallquist, M. N.**, Lazarus, S. A., Stepp, S. D., & Pilkonis, P. A. (2017). Momentary patterns of covariation between specific affects and interpersonal behavior: Linking relationship science and personality assessment. *Psychological Assessment, 29*, 123-134. PMCID: 5097701.

42. Hawes, S. W., Chahal, R., **Hallquist, M. N.**, Paulsen, D. J., Geier, C. F., & Luna, B. (2017). Modulation of reward-related neural activation on sensation seeking across development. *NeuroImage, 147*, 763-771.

43. Jalbrzikowski, M. J., Larsen, B., **Hallquist, M. N.**, Foran, W., Calabro, F., & Luna, B. (2017). Development of white matter microstructure and intrinsic functional connectivity between the amygdala and ventromedial prefrontal cortex: Associations with anxiety and depression. *Biological Psychiatry, 82*, 511-521. PMCID: 5522367.

44. Simmonds, D. J., **Hallquist, M. N.**, & Luna, B. (2017). Protracted development of executive and mnemonic brain systems underlying working memory in adolescence: A longitudinal fMRI study. *NeuroImage, 157*, 695-704.

45. Vanyukov, P. M., Szanto, K., **Hallquist, M. N.**, Moitra, M., & Dombrovski, A. Y. (2017). Perceived burdensomeness is associated with low-lethality suicide attempts, dysfunctional interpersonal style and younger rather than older age. *International Journal of Geriatric Psychiatry, 32*, 788-797. PMCID: 5156588.

46. Wright, A. G. C., Stepp, S. D., Scott, L. N., **Hallquist, M. N.**, Beeney, J. E., Lazarus, S. A., & Pilkonis, P. A. (2017). The effect of pathological narcissism on interpersonal and affective processes in social interactions. *Journal of Abnormal Psychology, 126*, 898-910.

47. Beeney, J. E., **Hallquist, M. N.**, Clifton, A. D., Lazarus, S. A., & Pilkonis, P. A. (2018). Social disadvantage and borderline personality disorder: A study of social networks. *Personality Disorders: Theory, Research & Treatment, 9*, 62-72.

48. Lynn, A., Padmanabhan, A., Simmonds, D., Foran W., **Hallquist, M. N.**, Luna, B., & O'Hearn, K. (2017). Functional connectivity differences in autism during face and car recognition: underconnectivity and atypical age-related changes. *Developmental Science, 21*, e12508.

49. **Hallquist, M. N.** & Wiley, J. F. (2018). *MplusAutomation*: An *R* package for facilitating large-scale latent variable analyses in *Mplus. Structural Equation Modeling, 25*, 621-638. PMCID: 6075832.

50. **Hallquist, M. N.**, Geier, C. F., & Luna, B. (2018). Incentives facilitate developmental improvement in inhibitory control by modulating control-related networks. *NeuroImage, 172*, 369-380. PMCID: 5910226.

51. Beeney, J. E., **Hallquist, M. N.**, Scott, L. N., Ringwald, W. R., Stepp, S. D., Lazarus, S. A., Mattia, A. A., & Pilkonis, P. A. (2019). The emotional bank account and the four horsemen of the apocalypse in romantic relationships of people with borderline personality disorder: A dyadic observational study. *Clinical Psychological Science, 7*, 1063-1077.

52. Beeney, J. E., Lazarus, S. A., **Hallquist, M. N.**, Stepp, S. D., Wright, A. G. C., Scott, L. N., Giertych, R. A., & Pilkonis, P. A. (2019). Detecting the presence of a personality disorder using interpersonal and self-dysfunction. *Journal of Personality Disorders, 33*, 229-248. PMCID: 6123313.

53. Beeney, J. E., Stepp, S. D., **Hallquist, M. N.**, Ringwald, W. R., Wright, A. G. C., Lazarus, S. A., Scott, L. N., Mattia, A. A., Ayars, H. E., Gebresalassie, S. H., & Pilkonis, P. A. (2019). Attachment styles, social behavior and personality functioning in romantic relationships. *Personality Disorders: Theory, Research and Treatment, 10*, 275–285.

54. Conway, C. C., Forbes, M. K., Forbush, K. T., Fried, E. I., **Hallquist, M. N.**, Kotov, R., Mullins-Sweatt, S. N., Shackman, A. J., Skodol, A. E., South, S. C., Sunderland, M., Waszczuk, M. A.,

Zald, D. H., Afzali, M. H., Bornovalova, M. A., Carragher, N., Docherty, A. R., Jonas, K. G., Krueger, R. F., Patalay, P., Pincus, A. L., Tackett, J. L., Reininghaus, U., Waldman, I. D., Wright, A. G. C., Zimmermann, J., Bach, B., Bagby, R. M., Chmielewski, M., Cicero, D. C., Clark, L. A., Dalgleish, T., DeYoung, C. G., Hopwood, C. J., Ivanova, M. Y., Latzman, R. D., Patrick, C. J., Ruggero, C. J., Samuel, D. B., Watson, D., & Eaton, N. R. (2019). A hierarchical taxonomy of psychopathology can transform mental health research. *Perspectives on Psychological Science, 14,* 419–436.

55. Dombrovski, A. Y., **Hallquist, M. N.**, Brown, V., Wilson, J., & Szanto, K. (2019). Value-based choice, contingency learning and suicidal behavior in mid-life and late-life depression. *Biological Psychiatry, 85,* 506–516.

56. **Hallquist, M. N.*** & Dombrovski, A. Y.* (2019). Selective maintenance of value information helps resolve the exploration/exploitation dilemma. *Cognition, 183*, 226-243. *Both authors contributed equally to this work.

57. **Hallquist, M. N.**, & Hillary, F. G. (2019). Graph theory approaches to functional network organization in brain disorders: A critique for a brave new small-world. *Network Neuroscience, 3*, 1-26. PMCID: 6326733.

58. Vanyukov, P. M., **Hallquist, M. N.**, Delgado, M., Szanto, K., & Dombrovski, A. (2019). Neurocomputational mechanisms of adaptive learning in social exchanges. *Cognitive, Affective, and Behavioral Neuroscience, 19*, 985-997.

59. Allen, T. A.❖ & **Hallquist, M. N.** (2020). Disinhibition and detachment in adolescence: A developmental cognitive neuroscience perspective on the Alternative Model for Personality Disorders. *Psychopathology, 53*, 205–212. PMCID: 7530016.

60. Allen, T. A.❖, Schreiber, A. M.❖, Hall, N. T.❖, & **Hallquist, M. N.** (2020). From description to explanation: Integrating across multiple levels of analysis to inform neuroscientific accounts of dimensional personality pathology. *Journal of Personality Disorders, 34*, 650–676. PMCID: 7583665.

61. Brown, V. M., Wilson, J., **Hallquist, M. N.**, Szanto, K., & Dombrovski, A. Y. (2020). Ventromedial prefrontal value signals and functional connectivity during decision-making in suicidal behavior and impulsivity. *Neuropsychopharmacology, 45*, 1034–1041.

62. Chahal, R., Weissman, D. G., **Hallquist, M. N.**, Robins, R. W., Hastings, P. D., & Guyer, A. E. (2020). Neural connectivity biotypes: Associations with internalizing problems throughout adolescence. *Psychological Medicine, 29*, 1–11. PMCID: 7845761.

63. Dawood, S.❖, **Hallquist, M. N.**, Pincus, A. L., Ram, N., Newman, M. G., Wilson, S. J., & Levy, K. N. (2020). Comparing signal-contingent and event-contingent experience sampling ratings of affect in a sample of psychotherapy outpatients. *Journal of Psychopathology and Behavioral Assessment, 42*, 13–24.

64. Dombrovski, A. Y.*, Luna, B., & **Hallquist, M. N.*** (2020). Differential reinforcement encoding along the hippocampal long axis helps resolve the explore-exploit dilemma. *Nature Communications*, *11,* 5407. PMCID: 7589536. *These authors contributed equally to this work.

65. Hallquist, M. L. G., Tricou, E. P., **Hallquist, M. N.**, Savatt, J. M., Rocha, H., Evans, A. E., Deckard, N., Hu, Y., Kirchner, H. L., Pervola, J., Rahm, A. K., Rashkin, M., Schmidlen, T. J., Schwartz, M. L. B., Williams, J. L., Williams, M. S., & Buchanan, A. H. (2020). Positive impact of genetic counseling assistants on genetic counseling efficiency, patient volume, and cost in a cancer genetics clinic. *Genetics in Medicine*, *22,* 1348–1354.

66. Schreiber, A. M.❖, Wright, A. G. C., Beeney, J. E., Stepp, S. D., Scott, L. N., Pilkonis, P. A., & **Hallquist, M. N.** (2020). Disrupted physiological coregulation during a conflict predicts short-term discord and long-term relationship dysfunction in couples with personality pathology. *Journal of Abnormal Psychology, 129*, 433–444. PMCID: 7330878.

67. Waszczuk, M. A., Eaton, N. R., Krueger, R. F., Shackman, A. J., Waldman, I. D., Zald, D. H., Lahey, B. B., Patrick, C. J., Conway, C. C., Ormel, J., Hyman, S. E., Fried, E. I., Forbes, M. K., Docherty, A., Althoff, R. R., Bach, B., Chmielewski, M., DeYoung, C. G., Forbush, K. T., **Hallquist, M.**, Hopwood, C. J., Ivanova, M., Jonas, K. G., Latzman, R. D., Markon, K. E., Mullins-Sweatt, S. N., Pincus, A. L., Reininghaus, U., South, S. C., Tackett, J. L., Watson, D., Wright, A. G. C., Kotov, R. (2020). Redefining phenotypes to advance psychiatric genetics: Implications from the Hierarchical Taxonomy of Psychopathology. *Journal of Abnormal Psychology, 129*, 143–161.

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69. Forbes, M. K., Greene, A. L., Levin-Aspenson, H. F., Watts, A. L., **Hallquist, M. N.**, Lahey, B. B., Markon, K. E., Patrick, C. J., Tackett, J. L., Waldman, I. D., Wright, A. G. C., Caspi, A., Ivanova, M., Kotov, R., Samuel, D. B., Eaton, N. R., & Krueger, R. F. (2021). Three recommendations based on a comparison of the reliability and validity of the predominant models used in research on the empirical structure of psychopathology. *Journal of Abnormal Psychology, 130*, 297–317.

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73. Kotov, R., Krueger, R. F., Watson, D., Cicero, D. C., Conway, C. C., DeYoung, C. G., Eaton, N. R., Forbes, M. K., **Hallquist, M. N.**, Latzman, R. D., Mullins-Sweatt, S. N., Ruggero, C. J., Simms, L. J., Waldman, I. D., Waszczuk, M. A., & Wright, A. G. C. (2021). The Hierarchical Taxonomy of Psychopathology (HiTOP): A quantitative nosology based on consensus of evidence. *Annual Review of Clinical Psychology, 17*, 83–108.

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personality disorder and functional connectivity. *Biological Psychiatry*. https://doi.org/10.1101/2023.08.03.551534

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99. Wicher, C. L., Dombrovski, A. Y., **Hallquist, M. N.**, Buecker, S. Wright, A. G. C., & Kaurin, A. (2025, in press). Daily loneliness and suicidal ideation in borderline personality disorder. *Personality Disorders: Theory, Research, and Treatment.*

100. Schreiber, A. M.❖, Hall, N. T.❖, Parr, D. F.❖, & **Hallquist, M. N.** (2025, in press). Impulsive adolescents exhibit inefficient processing and a low decision threshold when decoding facial expressions of emotions. *Psychological Medicine.*

101. Papale, A. E., Brown, V. M., Ianni, A. M., **Hallquist, M. N.**, Luna, B., & Dombrovski, A. Y. (2025). Prefrontal default-mode network interactions with posterior hippocampus during exploration. *Journal of Neuroscience*. https://doi.org/10.1523/JNEUROSCI.0399-25.2025

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103. Vallorani, A.❖, Lytle, M. N., Gilmer, M. A., Bomberger, M., **Hallquist, M. N.**, & Perez-Edgar, K. (2026, in press). Effect of social interaction negative affect on within-person mentalizing network connectivity. *Social Cognitive and Affective Neuroscience.* https://doi.org/10.31234/osf.io/xar2v_v1

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105. Vallorani, A.❖, McNaughton, K. A., Lytle, M. N., **Hallquist, M. N.**, Redcay, E., & Perez-Edgar, K. (2026, in press). Mentalizing from self and friend perspectives: Relations between neural similarity, affective similarity and social anxiety symptoms. *Imaging Neuroscience.* https://osf.io/preprints/psyarxiv/z5ebw

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Public Preprints of Manuscripts Under Review

1. Hall, N. T.❖, & **Hallquist, M. N.** (2024). Right anterior insula effective connectivity impairs intrinsic BOLD fluctuations in dorsal attention network in adolescents and young adults with borderline personality symptoms. *bioRxiv.* https://doi.org/10.1101/2022.08.08.503183.

2. Vig, Z. A.❖ & **Hallquist, M. N.** (2026, November 5). REPAIR: Random-effect prediction adjustment for inference in regression. Retrieved from osf.io/preprints/psyarxiv/gbwqd_v1

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Books

1. Wright, A. G. C. & **Hallquist, M. N.** (Eds.) (2020). *Handbook of research methods in clinical psychology.* Cambridge, UK: Cambridge University Press.

Invited Reviews, Commentaries, Papers, and Book Chapters

2. Lynn, S. J., Knox, J., Fassler, O., & **Hallquist, M.** (2003). An evaluation of Woodard's theory of perceptually oriented hypnosis (Invited Commentary). *Psychological Reports, 93*, 87-90.

3. Lynn, S. J., & **Hallquist, M. N.** (2004). Toward a scientifically based understanding of Milton H. Erickson's strategies and tactics: Response sets and common factors in psychotherapy. *Contemporary Hypnosis, 21*, 63-78.

4. Lynn, S. J., Das, L. S., **Hallquist, M. N.**, & Williams, J. (2006). Mindfulness, acceptance, and hypnosis: Cognitive and clinical perspectives. *International Journal of Clinical and Experimental Hypnosis, 54*, 143-166.

5. Lynn, S. J., Matthews, A., Williams, J. C., **Hallquist, M. N.**, & Lilienfeld, S. O. (2006). Some forms of psychopathology are partly socially constructed. In S. O. Lilienfeld and W. T. O'Donohue (Eds.), *The great ideas of clinical science: 17 principles that every mental health professional should understand* (pp. 347-374). New York: Routledge.

6. Lynn, S. J., Kirsch, I., & **Hallquist, M. N.** (2008). Social cognitive theories of hypnosis. In M. R. Nash, & A. Barnier (Eds.), *The Oxford handbook of hypnosis* (pp. 111-140). New York/United Kingdom: Oxford University Press.

7. Lynn, S. J., Boycheva, E., Deming, A., Lilienfeld, S. O., & **Hallquist, M. N.** (2009). Forensic hypnosis: The state of the science. In J. L. Skeem, K. S. Douglas, & S. O. Lilienfeld (Eds.), *Psychological science in the courtroom: Controversies and consensus* (pp. 80-99). New York: Guilford.

8. **Hallquist, M. N.**, Deming, A., Matthews, A., & Chaves, J. (2010) Clinical hypnosis for medically unexplained symptoms and somatoform disorders. In S. J. Lynn, J. W. Rhue, & I. Kirsch (Eds.), *Handbook of clinical hypnosis, second edition*. Washington, DC: APA Press.

9. Williams, J. C., **Hallquist, M. N.**, Barnes, S., & Shirm, A. (2010). Incorporating acceptance and mindfulness in clinical hypnotherapy. In S. J. Lynn, J. W. Rhue, & I. Kirsch (Eds.), *Handbook of clinical hypnosis, second edition*. Washington, DC: APA Press.

10. **Hallquist, M. N.** & Pilkonis, P. A. (2010). Quantitative methods in psychiatric classification: the path forward is clear but complex: Commentary on Krueger and Eaton. *Personality Disorders: Theory, Research, and Treatment, 1*, 131-134.

11. Pilkonis, P. A., **Hallquist, M. N.**, Morse, J. Q., & Stepp, S. D. (2011). Striking the (im)proper balance between scientific advances and clinical utility: Commentary on the DSM-5 proposal for

personality disorders. *Personality Disorders: Theory, Research, and Treatment, 2*, 68-82. PMCID: PMC3143499.

12. Dombrovski, A. Y., & **Hallquist, M. N.** (2017). The decision neuroscience perspective on suicidal behavior: evidence and hypotheses. *Current Opinion in Psychiatry, 30*, 7-14. PMCID: 5291285.

13. Lenzenweger, M. F., **Hallquist, M. N.**, & Wright, A. G. C. (2018). Understanding stability and change in the personality disorders: Methodological and substantive issues underpinning interpretive challenges and the road ahead. In J. Livesley & R. Larstone (Eds.), *Handbook of personality disorders (2nd edition)* (pp. 197-214). New York: Guilford.

14. **Hallquist, M. N.**, Schreiber, A. M.❖, Hall, N. T.❖, & Dombrovski, A. Y. (2018). Interpersonal dysfunction in borderline personality: a decision neuroscience perspective. *Current Opinion in Psychology, 21*, 94-104. PMCID: 5866160.

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16. Hall, N. T.❖, Schreiber, A. M.❖, & **Hallquist, M. N.** (2020). Good taxonomy can address classification challenges in personality pathology by providing informative priors that balance information compression and fidelity. In C. Lejuez & K. Gratz (Eds.), *The Cambridge handbook of personality disorders* (pp. 136–139). Cambridge, UK: Cambridge University Press.

17. **Hallquist, M. N.*** & Dombrovski, A. Y.* (2020). Reinforcement learning approaches to clinical computational neuroscience. In A. G. C. Wright & M. N. Hallquist (Eds.), *Handbook of research methods in clinical psychology.* Cambridge, UK: Cambridge University Press. *Both authors contributed equally.

18. Schreiber, A. M.❖, Hall, N. T.❖, & **Hallquist, M. N.** (2020). Prototype approach to personality disorders. In V. Zeigler-Hill & T. K. Shackelford (Eds.), *Encyclopedia of personality and individual differences*. Switzerland: Springer International Publishing. https://doi.org/10.1007/978-3-319-24612-3_932.

19. Tackett, J. L., & **Hallquist, M. N.** (2022). The need to grow: Developmental considerations and challenges for modern psychiatric taxonomies. *Journal of Psychopathology and Clinical Science, 131*, 660–663.

20. **Hallquist, M. N.**, Allen, T. A., Okan, A., Paolizzi, S., & Dombrovski, A. Y. (2026, in press). Computational psychiatry and dimensional models of psychopathology: Confluences and conflicts. In C. Conway & R. F., Krueger (Eds.), H*andbook of dimensional models of psychopathology*. New York, NY: Oxford University Press.

21. **Hallquist, M. N.** & Tackett, J. L. (2026, in press). Adolescent personality pathology and the development of identity, relationships, and civic engagement. *Annual Review of Developmental Psychology.*

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Computer Software

1. Williams, S. C., Yaeger, L., & **Hallquist, M. N.** (2012). Brain Connectivity Toolbox – C++. An open-source library for large-scale graph-theoretic analysis. (Version r394). [Computer software]. Available from http://code.google.com/p/bct-cpp/

2. Rosseel, Y. (2013). Lavaan: An R package for structural equation modeling. *Journal of Statistical Software, 48*, 1-36. Available from http://cran.r-project.org/web/packages/lavaan/. **Hallquist, M. N.** [contributor]: Mplus command interpreter and lavaan command parser.

3. **Hallquist, M. N.** & Wiley, J. (2023). MplusAutomation: Automating Mplus model estimation and interpretation. R package version 1.1.1. [Computer software]. Chapel Hill, NC. Available from http://cran.r-project.org/web/packages/MplusAutomation/

4. **Hallquist, M. N.** (2023). ggbrain: Create Images of Volumetric Brain Data in NIfTI Format Using 'ggplot2' Syntax. R package version 0.8.1. [Computer software]. Availabile from https://CRAN.R-project.org/package=ggbrain

5. **Hallquist, M. N.** (2026). fmri.pipeline: An R package for facilitating model-based fMRI analysis on high-performance computing clusters. R package version 0.3. [Computer software]. Available from https://github.com/UNCDEPENdLab/fmri.pipeline.

6. **Hallquist, M. N.** (2026). BrainGnomes: An R package for streamlining preprocessing and analysis of fMRI data on high performance computing clusters R package version 0.8-1. [Computer software]. Available from https://github.com/UNCDEPENdLab/BrainGnomes.

7. Lane, S., Gates, K. M., Fisher, Z., Arizmendi, C., Molenaar, P. C. M., Merkle, E., **Hallquist, M. N.**, Pike, H., Henry, T., Duffy, K., Luo, L., Beltz, A., Wright, A. G. C., Park, J., & Alvarez, S. C. (2023). gimme: Group Iterative Multiple Model Estimation. An R package. (Version 0.7-13). [Computer software]. Chapel Hill, NC. Available from https://cran.r-project.org/web/packages/gimme/. **Hallquist, M. N.** [Contributer]: hemodynamic response function convolution and deconvolution.

Conference Abstracts (Paper and Poster Presentations)

1. **Hallquist, M. N.**, Matthews, A., Williams, J. C., Lynn, S. J., Fassler, O., Knox, J., & Schindler, K. (2004, November). *An empirical comparison of perceptual and subjective experiences during mindfulness meditation and hypnosis.* Paper presented at the annual meeting of the Society for Clinical and Experimental Hypnosis, Santa Fe, NM.

2. Williams, J. C., Matthews, A., **Hallquist, M. N.**, Lynn, S.J., Knox, J., Fassler, O., & Schindler, K. (2004, November). *Development of a new scale of acceptance: Hypnotic suggestibility, psychopathology, and fantasy proneness.* Paper presented at the annual meeting of the Society of Clinical and Experimental Hypnosis, Santa Fe, NM.

3. Lynn, S.J., **Hallquist, M. N.**, Williams, J., Matthews, A., Knox, J., & Fassler, O. (2005, August). *Enhancing hypnotic suggestibility: Imagination vs. compliance*. Paper presented at the annual meeting of the American Psychological Association, Washington, D.C.

4. Williams, J. C., **Hallquist, M. N.**, Matthews, A., Knox, J., Fassler, O., & Lynn, S. J. (2005, October). *Elaborating the construct of acceptance: Mindfulness, hypnosis, and psychopathology.* Paper presented at the annual meeting of the Society for Clinical and Experimental Hypnosis, Charleston, SC.

5. Williams. B., Wagner, L., **Hallquist, M. N.**, & Donovick, P. J. (2006, May). *Verbal fluency and motor speed predict intelligence In community hospital, incarcerated, and outpatient samples*. Poster presented at the annual meeting of the Association for Psychological Science, New York, NY.

6. **Hallquist, M. N.**, Williams, J. C., Lynn, S. J., Shirm, A., & Barnes, S. (2006, August). *Effects of instructions "not to slip into hypnosis": Does the induction matter?* Paper presented at the annual meeting of the American Psychological Association, New Orleans, LA.

7. Williams, J. C., **Hallquist, M. N.**, Matthews, A. L., Barnes, S., Shirm, A., & Lynn, S. J. (2006, August). *Construct of acceptance? Validity, reliability, and hypnotic suggestibility.* Paper presented at the annual meeting of the American Psychological Association, Washington, DC.

8. **Hallquist, M. N.**, Lynn, S. J., & Williams, J. C. (2006, November). *Sociocultural factors in body dysmorphic disorder*. Poster presented at the annual meeting of the Association for Cognitive and Behavioral Therapies, Chicago, IL.

9. Williams, J. C., **Hallquist, M. N.**, & Lynn, S. J. (2006, November). *Development of a multidimensional acceptance scale*. Poster presented at the annual meeting of the Association for Cognitive and Behavioral Therapies, Chicago, IL.

10. Wagner, L. A., Portocarrero, J. S., **Hallquist, M. N.**, & Donovick, P. J. (2007, February). *Construct validity of the Expressive Vocabulary Test in a prison population*. Poster presented at the annual meeting of the International Neuropsychology Society, Portland, OR.

11. **Hallquist, M. N.**, & Lenzenweger, M. F. (2007, March). *Relationships among temperament variables and personality disorder clusters: The Longitudinal Study of Personality Disorders.* Poster presented at the annual meeting of the American Psychopathological Association, New York, NY.

12. Lynn, S. J., & **Hallquist, M. N.** (2007, July). *Hypnotic and nonhypnotic suggestibility, performance standards, and expectancies*. Paper presented at the seventh meeting of the Society for Applied Research in Memory and Cognition. Lewiston, ME.

13. **Hallquist, M. N.**, & Lenzenweger, M. F. (2007, October). *Identifying distinct personality disorder symptom change trajectories: Two-part growth mixture modeling in the Longitudinal Study of Personality Disorders.* Poster presented at the annual meeting of the Society for Research in Psychopathology, Iowa City, IA.

14. Lynn, S.J., **Hallquist, M. N.**, Williams, J., Matthews, A., & Boycheva, E. (2007, October). *Hypnotizability enhancement training generalizes outside of the training context*. Paper presented at the annual meeting of the Society for Clinical and Experimental Hypnosis, Anaheim, CA.

15. Montgomery, G. H., Kangas, M., David, D., **Hallquist, M. N.**, Green, S., Bovbjerg, D. H., & Schnur, J. B. (2007, October). *Fatigue during breast cancer radiotherapy: Effects of a hypnosis plus CBT intervention.* Paper presented at the annual meeting of the Society for Clinical and Experimental Hypnosis, Anaheim, CA.

16. Williams, J. C., Lynn, S. J., & **Hallquist, M. N.** (2007, November). *Construction and initial validation of a multi-faceted acceptance scale.* Poster presented at the annual meeting of the Association for Behavioral and Cognitive Therapies, Philadelphia, PA.

17. **Hallquist, M. N.**, & Lenzeweger, M. F. (2008, March). *Two-part growth mixture modeling reveals latent classes of personality disorder symptom change in the Longitudinal Study of Personality Disorders (LSPD)*. Poster presented at the annual meeting of the American Psychopathological Association, New York, NY.

18. Barnes, S. M., Williams, J. C., **Hallquist, M. N.**, & Lynn, S. J. (2008, June). *An exploration of the relation between mindfulness skills and psychopathological symptoms in times of academic stress.* Poster presented at the Mind and Life Summer Research Institute, Garrison, NY.

19. **Hallquist, M. N.**, Lynn, S. J., & Barnes, S. M. (2008, August). *Understanding the latent structure of the Carleton University Responsiveness to Suggestion Scale.* Paper presented at the annual meeting of the American Psychological Association Division 30 (Hypnosis) Symposium, Boston, MA.

20. **Hallquist, M. N.** (2008, September). *Executive inhibition deficits may underlie many forms of personality dysfunction*. Poster presented at the annual meeting of the Society for Research in Psychopathology, Pittsburgh, PA.

21. **Hallquist, M. N.**, & Lenzenweger, M. F. (2009, June). *Identifying distinct personality disorder symptom change trajectories: Growth mixture modeling in the Longitudinal Study of Personality Disorders*. Poster presented at the Ninth Annual Western Psychiatric Institute and Clinic Research Day. Pittsburgh, PA.

22. **Hallquist, M. N.**, & Pilkonis, P. A. (2009, August). *Refining borderline personality disorder using hybrid latent structure models*. Paper presented at the annual meeting of the International Society for the Study of Personality Disorders, New York, NY.

23. **Hallquist, M. N.**, & Pilkonis, P. A. (2009, September). *Refining borderline personality disorder using hybrid latent structure models: Integrating classes and continua*. Poster presented at the annual meeting of the Society for Research in Psychopathology, Minneapolis, MN.

24. **Hallquist, M. N.**, Jones, N. P., Stepp, S. D., Siegle, G. J., & Pilkonis, P. A. (2010, March). *Borderline personality features and pupil reactivity during cognitive and emotional information processing tasks*. Paper presented at the annual meeting of the American Psychopathological Association, New York, NY.

25. **Hallquist, M. N.**, Geier, C. F., & Luna, B. (2011, June). *Brain networks underlying reward processing and inhibitory control in adolescence and adulthood.* Poster presented at the annual meeting of the Organization for Human Brain Mapping. Quebec City, QC, Canada.

26. Simmonds, D., Montez, D., **Hallquist M. N.**, & Luna B (2011, June). *Longitudinal development of white matter and influence of puberty, sex and cognitive factors.* Poster presented at the annual meeting of the Organization for Human Brain Mapping conference. Quebec City, QC, Canada.

27. **Hallquist, M. N.**, & Stepp, S. D. (2011, September). *Reciprocal interactions among impulsivity, negative emotionality, aversive parenting, and self-control problems predict the development of borderline personality disorder symptoms in adolescent girls.* Talk presented at the annual meeting of the Society for Research in Psychopathology, Boston, MA.

28. **Hallquist, M. N.** (2011, November). *MplusAutomation: Better living through R.* Invited talk presented at the annual Mplus Users Meeting. University of Utrecht, Utrecht, Netherlands.

29. **Hallquist, M. N.**, Geier, C. F., & Luna, B. (2011, November). *Development of functional brain networks supporting reward processing and inhibitory control.* Poster presented at the annual meeting of the Society for Neuroscience. Washington, DC.

30. Wright, A. G. C., Morse, J. Q., **Hallquist, M. N.**, & Pilkonis, P. A. (2012, March) *Modeling interpersonal heterogeneity in borderline personality disorder using latent mixture modeling.* Paper presented at the annual meeting of the Society for Personality Assessment, Chicago, IL.

31. **Hallquist, M. N.** (2012, May). *MplusAutomation: An R package for enhancing latent variable modeling using Mplus.* Talk presented at the third annual Modern Modeling Methods conference. University of Connecticut, Storrs, CT.

32. **Hallquist, M. N.**, Hwang, K., & Luna, B. (2012, June). *The nuisance of nuisance regression: Spectral misspecification obscures resting state fMRI functional connectivity estimates.* Poster presented at the twelfth annual Department of Psychiatry Research Day. University of Pittsburgh, Pittsburgh, PA.

33. **Hallquist, M. N.**, Hwang, K., & Luna, B. (2012, September). *The nuisance of nuisance regression: Spectral misspecification obscures functional connectivity estimates.* Talk presented at the third biennial Conference on Resting State Brain Connectivity. Magdeburg, Germany.

34. Stepp, S. D., Scott, L. N., Morse, J. Q., **Hallquist, M. N.**, & Pilkonis, P. A. (2013, April). Emotion dysregulation maintains borderline personality disorder features. Talk presented to the North American Society for the Study of Personality Disorders.

35. **Hallquist, M. N.**, Stepp, S. D., & Luna, B. (2013, May). *Linking emotion dysregulation and impulsivity with fronto-striatal-limbic networks in adolescents with borderline personality symptoms: A pilot fMRI study of emotion control.* Poster presented at the annual meeting of the Society of Biological Psychiatry. San Francisco, CA.

36. **Hallquist, M. N.**, Olino, T. M., & Pilkonis, P. A. (2013, May). *Comparing the evidence for categorical versus dimensional representations of psychiatric disorders in the presence of noisy observations: A Monte Carlo study of the Bayesian Information Criterion and Akaike Information Criterion in latent variable models.* Talk presented at the fourth annual Modern Modeling Methods conference. University of Connecticut, Storrs, CT.

37. **Hallquist, M. N.**, Hwang, K., & Luna, B. (2013, June). *Effects of head motion on resting-state connectivity are exacerbated by a common preprocessing error*. Poster presented at the annual meeting of the Organization for Human Brain Mapping. Seattle, WA.

38. Lynn, A., Luna, B., Foran, W., Simmonds, D., Padmanabhan, A., **Hallquist, M. N.**, & O'Hearn, K. (2013, September). *Atypical development of functional connectivity during face processing in autism*. Poster presented at the inaugural Flux Congress. Pittsburgh, PA.

39. Foran, W., Hwang, K., Padmanabhan, A., & **Hallquist, M. N.** (2013, September). *The importance of applying physiological regression to resting-state functional connectivity MRI data.* Poster presented at the inaugural Flux Congress. Pittsburgh, PA.

40. **Hallquist, M. N.,** Hwang, K., & Luna, B. (2013, September). *The nuisance of nuisance regression: spectral misspecification in a common approach to resting- state fMRI preprocessing reintroduces noise and obscures functional connectivity*. Poster presented at the inaugural Flux Congress. Pittsburgh, PA.

41. **Hallquist, M. N.**, & Lenzenweger, M.F., (2013, September). *Mapping the within-person covariation of personality, personality disorders, mood, and anxiety symptoms.* Poster presented at the annual meeting of the Society for Research in Psychopathology. Oakland, CA.

42. **Hallquist, M. N.**, Wright, A. G. C., & Lenzenweger, M. F. (2014, March). *Mapping the longitudinal covariation of personality, personality disorders, mood, and anxiety*. Talk presented at the annual meeting of the Society for Personality Assessment. Arlington, VA.

43. Scott, L. N., **Hallquist, M. N.**, Whalen, D. J., Pilkonis, P. A., & Stepp, S. D. (2014, April). *Covariation of shame and anger-related emotions in adolescent girls with borderline personality disorder symptoms.* Paper presented at the 2014 meeting of the North American Society for the Study of Personality Disorders, Boston, MA.

44. Beeney, J. E., **Hallquist, M. N.**, Ellison, B. D., & Levy, K. N (2014, April). *Self-other disturbance in borderline personality disorder: Evidence from neural and performance-based measures.* Paper presented at the 2014 meeting of the North American Society for the Study of Personality Disorders, Boston, MA.

45. Palomo, S.❖, Pilkonis, P. A., Stepp, S. D., & **Hallquist, M. N.** (2014, June). *Interpersonal sensitivity in personality dysfunction is related to an implicit bias toward social rejection.* Poster presented at the annual Western Psychiatric Institute and Clinic Research Day. Pittsburgh, PA.

46. **Hallquist, M. N.**, Frank, M. J., Hwang, K., Dombrovski, A. Y., Paulsen D. J., Kim, T., & Luna, B. (2014, September). *The effect of emotional cues on reward learning and uncertainty-driven exploration in adolescents and young adults*. Poster presented at the annual meeting of the Flux Congress. Hollywood, CA.

47. Stepp, S. D., Scott, L. N., Beeney, J., **Hallquist, M. N.**, Wright, A. G. C., & Pilkonis, P. A. (2014, September). *An ecological assessment of romantic couples' interactions for individuals with borderline personality disorder.* Talk presented at the annual meeting of the Society for Research in Psychopathology. Evanston, IL.

48. **Hallquist, M. N.**, Frank, M. J., Hwang, K., Paulsen, D., J., & Luna (2014, September). *The influence of emotional cues on reward-related learning in adolescents and young adults.* Talk presented at the annual meeting of the Society for Research in Psychopathology. Evanston, IL.

49. **Hallquist, M. N.**, Frank, M. J., Hwang, K., Dombrovski, A. Y., Paulsen D. J., Kim, T., & Luna, B. (2014, November). *The effect of emotional cues on reward learning and uncertainty-driven exploration in adolescents and young adults.* Invited talk presented at the annual Pittsburgh imaging community retreat. Pittsburgh, PA.

50. **Hallquist, M. N.,** Dombrovski, A. Y., Frank, M. J., Kim, T., & Luna, B. (2014, December). *Emotional cues influence reward-related decision-making in teens and young adults with*

borderline personality symptoms. Poster presented at the annual meeting of the American College of Neuropsychopharmacology. Phoenix, AZ.

51. Wright, A. G. C., Stepp, S. D., Scott, L. N., **Hallquist, M. N.**, Beeney, J. E., & Pilkonis, P. A. (2015, May). *The effect of pathological narcissism on interpersonal and affective processes in social interactions*. Talk presented to the Society for Interpersonal Theory and Research, May, 2015.

52. **Hallquist, M. N.**, Frank, M. J., Hwang, K., Dombrovski, A. Y., & Luna, B. (2015, June). *The effect of emotional cues on reward learning and uncertainty- driven exploration in adolescents and young adults*. Poster presented at the annual meeting of the Organization for Human Brain Mapping. Honolulu, HI.

53. **Hallquist, M. N.**, Wright, A. G. C., Stepp, S. D., Beeney, J. E., Scott, L. N., & Pilkonis, P. A. (2015, October). *The disruptive effects of personality dysfunction on romantic couples' social networks.* Talk presented at the annual meeting of the Society for Research in Psychopathology. New Orleans, LA.

54. Wright, A. G. C., Ross, J. C., Girard, J. M., Scott, L. N., Beeney, J. E., **Hallquist, M. N.**, Stepp, S. D., & Pilkonis, P. A. (2015, October). *Personality pathology and momentary interpersonal behavior during conflict resolution*. Talk presented at the annual meeting of the Society for Research in Psychopathology. New Orleans, LA.

55. **Hallquist, M. N.**, Wright, A. G. C., Beeney, J. E., Stepp, S. D., Scott, L. N., & Pilkonis, P.A. (2016, March). *Personality disorder symptoms in romantic couples disrupt both interpersonal and physiological dynamics during relational disagreements.* Talk presented at the annual meeting of the Society for Personality Assessment. Chicago, IL.

56. Beltz, A., **Hallquist, M. N.**, Calabro, F., Lane, S., Molenaar, P., & Luna, B. (2016, September). *Intra-individual time-varying network connectivity provides insight into functional brain development.* Talk presented at the Developmental Methods conference. Whitefish, MT.

57. **Hallquist, M. N.**, Dombrovski, A. Y., Hwang, K., & Luna, B. (2016, September). *The neural basis of perceived risk, cognitive constraint, and expected value in temporal instrumental learning.* Poster presented at the annual meeting of the Society for Neuroeconomics. Berlin, Germany.

58. Dombrovski, A. Y.* & **Hallquist, M. N.*** (2016, September). *Strategic exploration/exploitation of a temporal instrumental contingency (SCEPTIC) under uncertainty and cognitive constraints.* Poster presented at the annual meeting of the Society for Neuroeconomics. Berlin, Germany. *Both authors contributed equally to this work.

59. **Hallquist, M. N.**, Wright, A. G. C., & Molenaar, P. C. M. (2017, March). *Network analyses of psychopathology in cross-section: conceptual and statistical challenges from a latent variable perspective.* Poster presented at the annual meeting of the American Psychopathological Association. New York, NY.

60. Hall, N. T.❖ & **Hallquist, M. N.** (2017, March). *Developmental changes in resting-state functional connectivity in borderline personality disorder: a network analysis approach*. Poster presented at the annual meeting of the American Psychopathological Association. New York, NY.

61. Schreiber, A. M.❖, Wright, A. G. C., Beeney, J. E., Stepp, S. D., Scott, L. N., Pilkonis, P. A., & **Hallquist, M. N.** (2017, March). *Interpersonal problems in the context of personality pathology disrupt physiological coregulation in romantic couples.* Poster presented at the annual meeting of the American Psychopathological Association. New York, NY.

62. **Hallquist, M. N.**, Dombrovski, A. Y., Hwang, K., & Luna, B. (2017, June). *Developmental changes in emotion processing and prediction errors in reinforcement-based timing.* Poster presented at the annual meeting of the Organization for Human Brain Mapping. Vancouver, BC, Canada.

63. **Hallquist, M. N.**, Beeney, J. E., Wright, A. G. C., Stepp, S. D., Scott, L. N., & Pilkonis, P. A. (2017, July). *The effects of interpersonal problem severity and style on romantic couples' social networks.* Talk presented at the annual meeting of the Society for Interpersonal Theory and Research. Pittsburgh, PA.

64. Dawood, S.❖, **Hallquist, M.N.**, Pincus, A. L., Levy, K. N., Newman, M. G., & Wilson, S. J. (2017, July). *Visualization of event-contingent interpersonal data*. Paper presented at the 20th Annual Meeting of the Society for Interpersonal Theory and Research, Pittsburgh, PA.

65. Schreiber, A. M.❖, Wright, A. G. C., Beeney, J. E., Stepp, S. D., Scott, L. N., Pilkonis, P. A., & **Hallquist, M. N.** (2017, July). *Physiological coregulation in romantic couples differentially mediates affect and perceptions of interpersonal stance depending on personality pathology.* Poster presented at the annual meeting of the Society for Interpersonal Theory and Research. Pittsburgh, PA.

66. **Hallquist, M. N.**, & Dombrovski, A. Y., (2017, September). *Developmental changes in the effect of emotional cues on value-based decision-making and information maintenance in borderline personality disorder.* Invited talk presented at the annual Flux Congress. Portland, OR.

67. Hall, N. T.❖, Schreiber, A. M.❖, & **Hallquist, M. N.** (2017, October). *Maladaptive personality traits are associated with cognitive control decision parameters: evidence from hierarchical Bayesian drift diffusion modeling*. Poster presented at the annual meeting of the Society for Neuroeconomics. Toronto, ON, Canada.

68. Schreiber, A. M.❖, Hall, N. T.❖, & **Hallquist, M. N.** (2017, October). *Developmental changes in the influence of emotional interference on perceptual decision-making in borderline personality.* Poster presented at the annual meeting of the Society for Neuroeconomics. Toronto, ON, Canada.

69. **Hallquist, M. N.** & Dombrovski, A. Y. (2017, October). *Emotional cues alter value-based decision-making and information maintenance in borderline personality disorder: evidence from computational modeling and neuroimaging.* Talk and poster presented at the annual meeting of the Society for Neuroeconomics. Toronto, ON, Canada.

70. Dombrovski, A. Y. & **Hallquist, M. N.** (2017, October). *Entropy of value representation, information maintenance, and the exploration-exploitation tradeoff.* Talk and poster presented at the annual meeting of the Society for Neuroeconomics. Toronto, ON, Canada.

71. **Hallquist, M. N.**, & Hillary, F. G. (2017, August). *Graph theory approaches to functional network organization in developmental neuroscience: A critique for a brave new small-world.* Poster presented at the annual Flux Congress. Berlin, Germany.

72. **Hallquist, M. N.**, Wright, A. G. C., & Molenaar, P. C. M. (2018, September). *Network analyses of psychopathology in cross-section: Why network psychometrics cannot escape psychometric theory.* Talk presented at the annual meeting of the Society for Research in Psychopathology. Indianapolis, IN.

73. Schreiber, A. M.❖, Dombrovski, A. Y., Vanyukov, P., & **Hallquist, M. N.** (2018, September). *Borderline personality and perceptions of trustworthiness modulate learning mechanisms in social*

trust exchange. Poster presented at the annual meeting of the Society for Research in Psychopathology. Indianapolis, IN.

74. **Hallquist, M. N.**, Oravecz, Z., & Dombrovski, A. Y. (2018, October). *Integrating reinforcement learning and matching theory to understand motivational vigor: A new computational model of free operant learning.* Poster presented at the annual meeting of the Society for Neuroeconomics. Philadelphia, PA.

75. Dombrovski, A. Y.*,* **Hallquist, M. N.**, Szanto, K., & McGuire, J. (2018, October). *Impaired calibration of voluntary persistence in depression and attempted suicide.* Poster presented at the annual meeting of the Society for Neuroeconomics. Philadelphia, PA.

76. Allen, T. A.❖, Dombrovski, A. Y., & **Hallquist, M. N**. (2019, April). Moderating influences of hierarchical personality traits on pathways to suicide in borderline personality disorder. In T. A. Allen (Chair) *Investigating personality pathology via hierarchical trait dimensions: Underlying mechanisms and predictive utility*. Paper presented at the North American Society for the Study of Personality Disorders Annual Conference, Pittsburgh, PA, USA.

77. **Hallquist, M. N.** & Dombrovksi, A. Y. (2019, April). *Emotional cues disrupt value-based learning and information maintenance in adolescents and young adults with borderline personality*. Invited talk presented at the annual meeting of the North American Society for the Study of Personality Disorders. In the symposium, *Decision neuroscience approaches to personality disorders* (Chair: Michael Hallquist). Pittsburgh, PA.

78. Schreiber, A. M.❖, Dombrovski, A. Y., Vanyukov, P., & **Hallquist, M. N.** (2019, April). *Borderline personality disorder modulates neurocognitive mechanisms and cooperative behavior in Trust Game.* Talk presented at the annual meeting of the North American Society for the Study of Personality Disorders. In the symposium, *Decision neuroscience approaches to personality disorders* (Chair: Michael Hallquist). Pittsburgh, PA.

79. **Hallquist, M. N.** (2019, May). *How state space models can help to characterize dynamic processes in personality pathology.* Invited talk presented in the symposium, *Novel Analytic Approaches to Clinical Science Data Over Time* (Chair: Michael Hallquist), at the annual meeting of the Association for Psychological Science. Washington, DC.

80. Allen, T. A.❖, Dombrovski, A. Y., & **Hallquist, M. N**. (2019, June). *Longitudinal associations between life stress and pathological personality traits in the context of borderline personality disorder.* Paper presented at the Association for Research in Personality Biannual Conference. Grand Rapids, Michigan, USA.

81. Schreiber, A. M.❖, Dombrovski, A. Y., Vanyukov, P., & **Hallquist, M. N.** (2019, August). *Borderline personality and perceived trustworthiness of others modulates learning mechanisms in social trust exchange.* Poster presented at the Flux 2019 Congress, New York City, NY.

82. Allen, T. A.❖, Dombrovski, A. Y., & **Hallquist, M. N.** (2019, September). *Dimensional personality traits and stressful life events in borderline personality disorder: Evidence for stress generation and stress exposure effects.* Poster presented at the annual meeting of the Society for Research in Psychopathology. Buffalo, NY.

83. Glatz, M. A.❖, Schreiber A. M.❖, Stepp, S. D., Pilkonis, P. A., & **Hallquist, M. N.** (2019, September). *Personality pathology disrupts phasic electrodermal activity in romantic couples.*

Poster presented at the annual meeting of the Society for Research in Psychopathology. Buffalo, NY.

84. **Hallquist, M. N.** & Dombrovski, A. Y. (2019, September). *Borderline personality is associated with disruptions to neurocomputational systems that support value-based decisions.* Part of the symposium, *Neurocomputational approaches to depression and borderline personality disorder* (Chair: Michael Hallquist). Talk presented at the annual meeting of the Society for Research in Psychopathology. Buffalo, NY.

85. Dombrovski, A. Y.* & **Hallquist, M. N.*** (2019, September). *Reinforcement encoding along the hippocampal long axis and individual differences in exploration/exploitation.* Part of the symposium, *Neurocomputational approaches to depression and borderline personality disorder* (Chair: Michael Hallquist). Talk presented at the annual meeting of the Society for Research in Psychopathology. Buffalo, NY. *Both authors contributed equally to this work.

86. Schreiber, A. M.❖, Dombrovski, A. Y., Vanyukov, P., & **Hallquist, M. N.** (2019, September). *Attenuated Reward Prediction Error modulated connectivity between Ventral Striatum and Crus I/II in BPD predicts decreased learning across rounds of Trust Game in Borderline Personality.* Poster presented at the annual meeting of the Society for Research in Psychopathology. Buffalo, NY.

87. **Hallquist, M. N.** (2019, October). *Understanding the what and why: How structural and experimental approaches can complement each other to advance the study of personality pathology.* Invited talk given at the Young Investigator Symposium during the biennial meeting of the International Society for the Study of Personality Disorders. Vancouver, BC, Canada.

88. Vallorani, A.❖, Brown, K. M., Fu, X., Gunther, K. E., MacNeill, L. A., Ermanni, B., **Hallquist, M. N.,** & Pérez-Edgar, K. (2020, September). *Affect influences social attention captured via mobile eye-tracking during dyadic play in young children.* Poster presented at the annual meeting of the Flux Society, Virtual.

89. Brown, V., **Hallquist, M. N.**, Frank, M. J., & Dombrovski, A. Y. (2020, October). *Effects of cognitive load on initial and sustained uncertainty-driven exploration in a multi-armed bandit task.* Poster presented at the annual meeting of the Society for Neuroeconomics (Virtual Meeting).

90. Brandes, C. M., **Hallquist, M. N.**, Herzhoff, K., Olino, T. M., & Tackett, J. L. (2021). *Facet-level personality traits and psychopathology across the transition to adolescence: Evaluating multiple developmental models.* Data blitz presented at the annual meeting of the Society for Personality and Social Psychology, hosted online.

91. Dombrovski, A. Y., **Hallquist, M. N.**, & Szanto, K. (2020). *Neurocomputational substrates of exploration and exploitation in suicidal behavior.* Symposium talk presented at the annual Social of Biological Psychiatry Meeting (Virtual Meeting).

92. Papale, A. E., **Hallquist, M. N.**, & Dombrovski, A. Y. (2021). *Dissociations among three functional subnetworks in prefrontal cortex and resolution of the exploration/exploitation dilemma through interactions with hippocampus.* Poster presented at the annual meeting of the Society for Neuroscience.

93. Ma, R.❖, Schreiber, A. M.❖, Hall, N. T.❖, Pilkonis, P. A., & **Hallquist, M. N.** (2022, May). *Social network quality affects romantic relationship satisfaction in couples with personality disorder symptoms.* Poster presented at the annual meeting of the Association for Psychological Science. Chicago, IL.

94. Okan A.❖, Dombrovski A. Y., & **Hallquist, M. N.** (2022, June). *Ventral tegmental area and posterior hippocampus prediction error signals predict exploration.* Poster presented at the Annual Meeting of Organization for Human Brain Mapping. Glasgow, Scotland.

95. Do, K.❖, Dombrovski, A. Y., & **Hallquist, M. N.** (2022, September). *Balancing exploration and exploitation under cognitive constraints across typical and atypical development.* Poster presented at the annual meeting of the Flux Society. Paris, France.

96. Paolizzi, S.❖ & **Hallquist, M. N.** (2022, September). *Emotional lability relates to adaptive learning across environmental contexts.* Talk presented at the annual meeting of the Society for Neuroeconomics. Arlington, Virginia.

97. **Hallquist, M. N.***, Hwang, K., Luna, B., & Dombrovski, A. Y.* (2022, September). *Mechanisms for solving the explore-exploit tradeoff in the human dorsal stream.* Poster presented at the annual meeting of the Society for Neuroeconomics. Arlington, Virginia. *Equal contribution.

98. **Hallquist, M. N.** (2022, September). *Fmri.factory: An R package for facilitating model-based fMRI analysis on high-performance computing clusters.* Poster presented at the annual meeting of the Society for Neuroeconomics. Arlington, Virginia.

99. Do, K.T. ❖, Dombrovski, A.Y., & **Hallquist, M.N.** (2022, September). *Balancing exploration and exploitation under cognitive constraints across typical and atypical development.* Poster presented at the Flux Society for Developmental Cognitive Neuroscience annual meeting, Paris, France.

100. Okan, A.❖, Dombrovski, A. Y., & **Hallquist, M. N.** (2022, September). *Ventral tegmental area and the hippocampus differentially track reward prediction errors in a reinforcement learning task.* Poster presented at the annual meeting of the Society for Neuroeconomics. Arlington, Virginia.

101. **Hallquist, M. N.***, Tsypes, A., Okan, A.❖, Do, K.❖, & Dombrovski, A. Y.* (2022, December). *Failure to resolve the explore-exploit dilemma in borderline personality disorder: Relationships with dimensional psychopathology and suicidal behavior.* Invited symposium talk presented at the annual meeting of the American College of Neuropsychopharmacology. Phoenix, Arizona. *Equal contribution.

102. **Hallquist, M. N.***, Hwang, K., Luna, B., & Dombrovski, A. Y.* (2022, December). *Dynamic value-laden maps in human dorsal stream help resolve explore-exploit tradeoff.* Invited symposium talk presented at the annual meeting of the American College of Neuropsychopharmacology. Phoenix, Arizona. *Equal contribution. (Presented by Dombrovski.)

103. Ianni, A., Langer, B., **Hallquist, M. N.**, & Dombrovski, A. Y. (2022, December). *Dorsal attention network neural activity during explore-exploit decision-making is linked to mood-dependent impulsivity in older adults.* Talk presented at the annual meeting of the American College of Neuropsychopharmacology. Phoenix, Arizona.

104. Allen, T. A., Koudys, J. W., Brown, V. M., **Hallquist, M. N.**, & Dombrovski, A. Y. (2023, May). *Antagonism facets uniquely affect cooperation: Narcissism and callousness are differentially associated with tit-for-tat reciprocity.* Poster presented at the annual meeting of the Society of Biological Psychiatry. https://doi.org/10.1016/j.biopsych.2023.02.339

105. Paolizzi, S. G.❖ & **Hallquist, M.N.** (2023, July). *An investigation of affective instability in borderline personality disorder and adjustments in adaptive learning from surprise across environments.* Poster presented at the 1st Computational Psychiatry Conference. Dublin, Ireland.

106. **Hallquist, M. N.***, Tsypes, A., Okan, A.❖, Do, K.❖, & Dombrovski, A. Y.* (2023, July). *Dorsal stream responses to decision overload in attempted suicide*. Poster presented at the the 1st Computational Psychiatry Conference. Dublin, Ireland. *Equal contribution.

107. Allen, T. A., Brown, V., **Hallquist, M. N.**, & Dombrovski, A. Y. (2023, September). *Individual differences in the Pavlovian control of defensive behavior.* Talk presented at the annual meeting of the Society for Research in Psychopathology. St Louis, MO.

108. Hall, N. T.❖, Dombrovski, A. Y., & **Hallquist, M. N.** (2023, September). *Resting-state functional connectivity of the anterior insula is associated with altered reinforcement learning in adolescents and young adults with borderline personality disorder symptoms.* Poster presented at the annual meeting of the Society for Research in Psychopathology. St Louis, MO.

109. **Hallquist, M. N.***, Tsypes, A., Okan, A.❖, Do, K.❖, & Dombrovski, A. Y.* (2023, September). *High-lethality suicide attempts are associated with a tendency to stay with losing options and stronger dorsal attention network responses to decision overload.* Talk presented at the annual meeting of the Society for Research in Psychopathology. St Louis, MO. *Equal contribution.

110. Paolizzi, S. P.❖, Hall, N. T.❖, & **Hallquist, M. N.** (2023, September). *Cognitive processes underlying emotion-related phenomena in personality disorders: Capturing the roles of valence and arousal in categorization tasks.* Poster presented at the annual meeting of the Society for Research in Psychopathology. St Louis, MO.

111. Schreiber, A. M.❖ & **Hallquist, M. N.** (2023, September). *Linking dimensions of personality with affect-dependent decision-making: Neuroticism heightens sensitivity to immediate value and amplifies vigor for valuable actions.* Poster presented at the annual meeting of the Society for Research in Psychopathology. St Louis, MO.

112. Vallorani, A.❖, Lytle, M. N., Gilmer, M., Bomberger, M., **Hallquist, M. N.**, & Pérez-Edgar, K. (2023, September). *Coordination of social attention, mentalizing language and mentalizing network connectivity during a naturalistic social interaction between emerging adulthood friends.* Poster presented at the annual meeting of the Flux Society. Santa Rosa, CA.

113. Desai, N. V. ❖, Paolizzi, S. P. ❖, & **Hallquist, M. N.** (2023, October). *Effects of social vs. non-social stimuli on threat learning in Pavlovian-to-instrumental transfer.* Poster presented at the annual meeting of the Society for Neuroeconomics. Vancouver, BC.

114. Ianni, A., Langer, B., Papale, A., Szanto, K., **Hallquist, M.**, & Dombrovski, A. (2023, December). *The aging hippocampus is more engaged but differentially specialized during explore-exploit decision-making in older adults with and without depression*. Poster presented at the annual meeting of the American College of Neuropsychopharmacology. Tampa, Florida.

115. Allen, T. A.❖, **Hallquist, M. N.**, & Dombrovski, A. Y. (2024, May). *Personality pathology and the tracking of cooperation incentives in the human default network.* Poster presented at the annual meeting of the Society of Biological Psychiatry. Austin, TX.

116. Ianni, A., Langer, B., Papale, A., Szanto, K., **Hallquist, M. N.**, & Dombrovski, A. Y. (2024, May). *Neural dynamics of value-based option competition in suicidal behavior: Computational study of exploration/exploitation.* Symposium talk presented at the annual meeting of the Society of Biological Psychiatry. Austin, TX.

117. Tsypes, A., **Hallquist, M. N.**, Ianni, A., & Dombrovski, A. Y. (2024, May). *Behavioral signatures of high- vs. low-lethality suicidal behavior during exploration/exploitation: A computational study.* Symposium talk presented at the annual meeting of the Society of Biological Psychiatry. Austin, TX.

118. Allen, T. A.✣, Dombrovski, A. Y., & **Hallquist, M. N.** (2024, July). *The dark side of sociality: Linking hierarchical traits to the tracking of cooperation incentives in the human default network.* Poster presented at the Computational Psychiatry Conference annual meeting. Minneapolis, MN.

119. Desai, N. V.✣, Paolizzi, S.✣, & **Hallquist, M. N.** (2024, July). *Social threat and safety cues limit adaptability under misleading Pavlovian conditioning further exaggerated in borderline personality disorder.* Poster presented at the Computational Psychiatry Conference annual meeting. Minneapolis, MN.

120. Do, K.T.✣, Okan, A.✣, & Dombrovski, A.Y., & **Hallquist, M.N.** (2024, July). *Altered frontoparietal encoding of value information dynamics is associated with aberrant exploration in borderline personality disorder development.* Poster presented at the Computational Psychiatry Conference annual meeting. Minneapolis, MN.

121. Hall, N. T.✣ & **Hallquist, M. N.** (2024, July). *Integrating individual differences and cognitive processes: Moving beyond sum scores in computational psychiatry.* Poster presented at the Computational Psychiatry Conference annual meeting. Minneapolis, MN.

122. **Hallquist, M. N.**, Dombrovski, A. Y., & Eldar, E. (2024, July). *Within-person variation in sensitivity to rewards vs. punishments predicts future mood.* Symposium talk presented at the annual Computational Psychiatry Conference. Minneapolis, MN.

123. Ianni, A. M., Langer, B., Papale, A., **Hallquist, M. N.**, & Dombrovski, A. Y. (2024, July). *Impulsivity is associated with aberrant value updating in late-life depression.* Poster presented at the Computational Psychiatry Conference annual meeting. Minneapolis, MN.

124. Paolizzi, S.✣ & **Hallquist, M. N.** (2024, July). *Specific and shared mechanisms of aversive Pavlovian-to-instrumental transfer in anxiety and emotional lability.* Poster presented at the Computational Psychiatry Conference annual meeting. Minneapolis, MN.

125. Schreiber, A. M.✣, **Hallquist, M. N.**, & Dombrovski, A. Y. (2024, July). *Targeted regions-of-interest analyses in RL model-based task fMRI are insensitive to individual differences.* Symposium talk presented at the annual Computational Psychiatry Conference. Minneapolis, MN.

126. Velasquez, R.✣, Hall, N. T.✣, Allen, T. A.✣, & **Hallquist, M. N.** (2024, July). *Investigating associations among borderline personality symptoms and aberrant social learning.* Poster presented at the Computational Psychiatry Conference annual meeting. Minneapolis, MN.

127. Do, K.T.❖, Dombrovski, A.Y., Luna, B. & **Hallquist, M.N.** (2024, September). *Emotion biases on explore-exploit decision-making diminish from adolescence to adulthood.* Poster presented at Flux Society for Developmental Cognitive Neuroscience annual meeting, Baltimore, MD.

128. **Hallquist, M. N.** (2024, October). Accelerating latent variable model estimation in *Mplus* using high-performance computing cluster support in *MplusAutomation*. Talk presented at the annual meeting of the Society for Multivariate Experimental Psychology. Ithaca, NY.

129. **Hallquist, M. N.**, Eldar, E., & Dombrovski, A. Y. (2025, May). *Within-person fluctuations in reinforcement learning predict mood.* Symposium talk presented at the Society of Biological Psychiatry annual meeting. Toronto, ON.

130. Eldar, E., **Hallquist, M. N.**, & Dombrovski, A. Y. (2025, May). *How moods emerge.* Symposium talk presented at the Society of Biological Psychiatry annual meeting. Toronto, ON.

131. Tsypes, A., **Hallquist, M. N.**, Eldar, E., & Dombrovski, A. Y. (2025, May). *Disentangling state and trait affect in exploration-exploitation decision-making: Insights from a 28-day reinforcement learning study.* Symposium talk presented at the Society of Biological Psychiatry annual meeting. Toronto, ON.

132. Schreiber, A. M., **Hallquist, M. N.**, Eldar, E., & Dombrovski, A. Y. (2025, May). *Pavlovian approach biases are amplified by affective state congruence between initial learning and later choice.* Symposium talk presented at the Society of Biological Psychiatry annual meeting. Toronto, ON.

133. Vig, Z. A.❖ & **Hallquist, M. N.** (2025, June). *Building better models of individual differences in cognition.* Poster presented at the biennial Reinforcement Learning and Decision-Making conference. Dublin, Ireland.

❖Denotes a mentored trainee

Conference Symposia Organized and Chaired

1. **Hallquist, M. N.** (2019, April). *Decision neuroscience approaches to personality disorders.* Symposium chaired at the annual meeting of the North American Society for the Study of Personality Disorders. Pittsburgh, PA.

2. **Hallquist, M. N.** (2019, May). *Novel analytic approaches to clinical science data over time*. Symposium chaired at the annual meeting of the Association for Psychological Science. Washington, DC.

3. **Hallquist, M. N.** (2019, September). *Neurocomputational approaches to depression and borderline personality disorder.* Symposium chaired at the annual meeting of the Society for Research in Psychopathology. Buffalo, NY.

4. **Hallquist, M. N.** (2022, December). *Explore/Exploit dilemma and psychopathology.* Symposium co-organized with Alexandre Dombrovski and Marta Peciña at the annual meeting of the American College of Neuropsychopharmacology. Phoenix, AZ.

5. Dombrovski, A. Y., Eldar, E. E., & **Hallquist, M. N.** (2024, July). Reinforcement learning models of psychological states vs. traits: intensive longitudinal and neural studies. Symposium co-organized for the annual Computational Psychiatry Conference. Minneapolis, MN.

6. **Hallquist, M. N.**, Eldar, E. E., & Dombrovski, A. Y. (2026, May). Mood-as-momentum: Real-world tests of a neurocomputational account of mood fluctuations. Symposium chaired at the annual meeting of the Association for Psychological Science. Barcelona, Spain.

TEACHING ACTIVITIES

Mentorship

Affiliated Faculty:

Timothy Allen, PhD: July 2020–present. Co-sponsor of Dr. Allen's NIMH K01 career development award (MH123915), *Dispositional negativity and the Pavlovian control of active and passive defensive behavior.*

Postdoctoral Trainees:

Alicia Vallorani, PhD: January 2023–present. Co-mentor to Dr. Vallorani, an NIMH NRSA-funded postdoctoral scholar in the Department of Psychology. University of Maryland, College Park.

Kathy Do, PhD: July 2021–July 2024. Primary mentor to Dr. Do, a postdoctoral scholar studying age-related changes in reinforcement learning in both clinical and normative populations. UNC-Chapel Hill.

Timothy Allen, PhD: August 2018–July 2020. Primary mentor to Dr. Allen, a postdoctoral scholar funded on our grant (MH048463) who is studying pathways to suicidal behavior in borderline personality. Penn State University and University of Pittsburgh.

Samuel Hawes, PhD: January 2014–August 2015. Advisor to Dr. Hawes, a T32 postdoctoral scholar in the Department of Psychiatry, University of Pittsburgh (primary mentor: Dustin Pardini, PhD).

Joseph E. Beeney, PhD: September 2013–September 2014. Advisor to Dr. Beeney, a T32 postdoctoral scholar (primary mentor: Paul Pilkonis, PhD) in the Department of Psychiatry, University of Pittsburgh.

Graduate and Post-baccalaureate Trainees:

Grace Collins, BS: August 2025–present. Primary research mentor to Ms. Collins, a graduate student in the clinical psychology program at Emory University.

Zachary Vig, BS: July 2024-present. Primary research mentor to Mr. Vig, a graduate student in the quantitative psychology program at UNC-Chapel Hill.

Ruofan Ma, MA: August 2021–January 2023. Research mentor to Ms. Ma, a graduate student in the clinical psychology program at UNC-Chapel Hill. Co-mentored with Kristen Lindquist.

Aysenur Okan, PhD: August 2020-2026. Primary research mentor to Dr. Okan, who completed her PhD in the clinical psychology program at UNC-Chapel Hill. Dissertation title: “Impulsivity during heightened negative affect through value-based decision-making and ecological momentary assessment.”

Sophie Paolizzi, MA: May 2019-present. Primary research mentor to Ms. Paolizzi, a graduate student in the clinical psychology program at UNC-Chapel Hill.

Nathan Hall, MS: August 2016-present. Primary research mentor to Mr. Hall, a graduate student in the clinical psychology program at UNC-Chapel Hill.

Alison Schreiber, PhD: August 2016-August 2023. Primary research mentor to Dr. Schreiber, who completed her PhD in the clinical psychology program at UNC-Chapel Hill. Dissertation title: “The role of neurocomputational decision processes in affect-based impulsivity in borderline personality.”

Alicia Vallorani, PhD: August 2016-August 2022. Co-mentor with Dr. Koraly Pérez-Edgar to Dr. Vallorani, who completed her PhD in the developmental psychology program at Penn State University. Dissertation title: “Sensitivity of mentalizing network to dyadic synchrony during a naturalistic peer social interaction.”

Tyler Moore, BS: September 2014-April 2015. Primary research mentor to Mr. Moore, a post-baccalaureate fellow in the Hot Metal Bridge program, a diversity initiative of the University of Pittsburgh designed to provide a one-year intensive research fellowship to individuals interested in pursuing graduate training.

Sarah Palomo, BS: September 2013-May 2014. Primary research mentor to Ms. Palomo, a post-baccalaureate fellow in the Hot Metal Bridge program.

Undergraduate Honors Theses Supervised:

Pwint (Lily) Thinzar: May 2024. Thesis title: “Emotion-related impulsivity and altered neural connectivity underlying maladaptive decision-making in borderline personality disorder.”

Hannah Evans: May 2022. Thesis title: “Acute stress influences decision-making by diminishing the consideration of long-term reward.”

McKayla Mawn: May 2018. Thesis title “Understanding the reciprocal relationship between interpersonal behaviors and autonomic nervous system functioning in patients with borderline personality disorder.”

Courses

Spring 2026	*Personality* (PSYC 501: undergraduate course) Instructor of Record, UNC-Chapel Hill, Department of Psychology and Neuroscience
Spring 2026	*Data Management and Visualization* (PSYC 859: graduate course) Instructor of Record, UNC-Chapel Hill, Department of Psychology and Neuroscience

Fall 2024	*Personality* (PSYC 501: undergraduate course) Instructor of Record, UNC-Chapel Hill, Department of Psychology and Neuroscience
Fall 2023	*Foundations of clinical neuroscience* (PSY 819: graduate course) Instructor of Record, UNC-Chapel Hill, Department of Psychology and Neuroscience
Fall 2022	*Adult psychopathology* (PSY 809: graduate course) Instructor of Record, UNC-Chapel Hill, Department of Psychology and Neuroscience
Spring 2020	*Introduction to exploratory data analysis and data management* (PSY 511: graduate course). Instructor of Record, Penn State University, Department of Psychology
Spring 2019	*Foundations of clinical neuroscience* (PSY 597: graduate course) Instructor of Record, Penn State University, Department of Psychology
Spring 2019	*Introduction to structural equation modeling* (PSY 597: graduate course) Instructor of Record, Penn State University, Department of Psychology https://psu-psychology.github.io/psy-597-sem-sp2019/
Spring 2018	*Neuroscience approaches to psychopathology* (PSY 490). Instructor of Record, Penn State University, Department of Psychology
Fall 2017	*Introduction to structural equation modeling* (PSY 597: graduate course). Instructor of Record, Penn State University, Department of Psychology https://psu-psychology.github.io/psy-597-SEM/
Fall 2017	*Introduction to exploratory data analysis and data management* (PSY 597: graduate course). Instructor of Record, Penn State University, Department of Psychology
Fall 2016	*Introduction to exploratory data analysis and data management* (PSY 597: graduate course). Instructor of Record, Penn State University, Department of Psychology
Summer 2008	*Statistical Methods and Research Design*, Undergraduate Course Instructor of Record, SUNY-Binghamton, Department of Psychology
Spring 2008	*Statistical Methods and Research Design*, Undergraduate Course Teaching Assistant, SUNY-Binghamton, Department of Psychology
Fall 2007	*Research Methods*, Undergraduate Course Teaching Assistant, SUNY-Binghamton, Department of Psychology
Spring 2005	*Models of Psychotherapy*, Undergraduate Course Teaching Assistant, SUNY-Binghamton, Department of Psychology
Fall 2004,	*Research Methods*, Undergraduate Course

Summer 2005	Instructor of Record, SUNY-Binghamton, Department of Psychology

Invited Lectures and Workshops

May 2025	Psychopathology through the lens of transdiagnostic decision neuroscience. Invited talk presented to the Department of Psychology, Northwestern University.
April 2025	Psychopathology through the lens of transdiagnostic decision neuroscience. Invited talk presented to the Max Planck UCL Center for Computational Psychiatry and Ageing Research. University College London.
October 2022	Decision-making in borderline personality: Clinical and neurocomputational perspectives. Invited online talk presented to the Binghamton University Clinical Psychology program.
May 2022	Introduction to data visualization in *R*. Four-day online workshop. The Center for Statistical Training.
April 2022	Using Multilevel Models to Uncover Spatiotemporal Dynamics of Neural Activity (Or, How I Learned to Stop Worrying and Love the MLM). Invited online colloquium presented to the Joint Quantitative Psychology Colloquium Series.
Feb 2022	Decision-making in borderline personality disorder and suicide: Clinical and computational perspectives. Invited online colloquium presented to the UNC-Greensboro Clinical Psychology program.
April 2021	The Multilevel Event-related Deconvolved Signal Analysis (MEDuSA) of trial-to-trial variation in neural task-based activity. Invited online colloquium presented in the Yale University MAPs: Methods and Primers for Computational Psychiatry and Neuroeconomics series. https://medicine.yale.edu/psychiatry/map/
April 2021	Contributions of the hippocampus and dorsal attention network to resolving the explore-exploit dilemma. Invited online colloquium presented at the Centre for Neuroscience Studies at Queen's University.
October 2020	Differential reinforcement encoding along the hippocampal long axis helps resolve the explore/exploit dilemma. Invited talk presented to the Transcontinental Computational Psychiatry Workgroup (with Alex Dombrovski). https://www.quentinhuys.com/tcpw/events/alexandre-dombrovski/
September 2019	*A neurocomputational perspective on borderline personality: Decision processes and brain circuits.* Invited colloquium presented to the Department of Psychology, Purdue University. West Lafayette, IN
August 2019	*Penn State R bootcamp.* Co-organized and led a two-day workshop on using R for data analysis and scientific programming. Penn State University. https://psu-psychology.github.io/r-bootcamp-2019/

July 2019	*How good programming practices support scientific reproducibility.* Invited lecture presented to the 2019 Bootcamp on Reproducible Research. Department of Biology, Penn State University. https://bootcamp.biostars.io/index.html
August 2018	*Penn State R bootcamp.* Co-organized and led a two-day workshop on using R for data analysis and scientific programming. Penn State University. https://psu-psychology.github.io/r-bootcamp-2018/
August 2017	*Penn State R bootcamp.* Co-organized and led a two-day workshop on using R for data analysis and scientific programming. Penn State University. https://psu-psychology.github.io/r-bootcamp/
September 2017	*Longitudinal latent variable modeling in developmental cognitive neuroscience.* Invited lecture presented to the Modeling Developmental Change Workshop. Portland, OR.
April 2015	*Introduction to computational models of reinforcement learning.* Invited lecture presented in graduate course, CMU 36-759, *Statistical Models of the Brain* (Instructor: Rob Kass, PhD). Center for the Neural Basis of Cognition, Carnegie Mellon University.
February 2014	*Toward a neurodevelopmental understanding of personality and personality disorders: an introduction to the neuroscience of personality.* Invited lecture presented to MED2101, Bio-Medicine: Past, Present & Future (Instructor: Georgia Duker, PhD). Department of Medicine, University of Pittsburgh.
January 2014, 2015	*Human imaging and functional neuroanatomy.* Invited lecture presented to Systems Neuroscience course. (Instructor: Dan Simons, PhD) Department of Neuroscience, University of Pittsburgh
Oct 2013	*Introduction to human neuroimaging methods.* Invited lecture presented to NROSCI 1042, *Neurochemical basis of behavior.* (Instructor: Bita Moghaddam, PhD) Department of Neuroscience, University of Pittsburgh.
May 2013	*Using MplusAutomation to facilitate Monte Carlo studies*. One-day workshop focusing on new innovations in latent variable modeling using the software *Mplus*. Co-instructors: Bengt Muthén and Joshua Wiley. University of Connecticut, Storrs, CT.
July 2013	*Borderline personality disorder in adolescence: Probing neural systems underlying emotion dysregulation and impulsivity.* Invited lecture presented as part of the clinical neuroimaging symposium, which is part of the Multimodal Neuroimaging Training Program. University of Pittsburgh and Carnegie Mellon University.
Sep 2013-	*Applied introduction to human neuroimaging.*

Sep 2014	Taught a biweekly seminar for 4–8 trainees (individuals at the undergraduate, graduate, and postdoctoral levels) focusing on fundamentals of human neuroimaging, including optimal practices in data preprocessing and analysis, as well as technical aspects of signal processing in MRI. Department of Psychiatry, University of Pittsburgh.
Fall 2010-Spring 2011	*Introduction to Programming in Neuroimaging.* Taught a biweekly seminar to a group of seven postdoctoral scholars in psychiatric neuroimaging basic computer programming techniques in neuroimaging, including Bash, Python, and Matlab for fMRI preprocessing and analysis. Department of Psychiatry, University of Pittsburgh
Fall 2007	*Introduction to SAS Data Management and Statistical Analysis* Instructor, SUNY-Binghamton, Academic Computing Services Taught and provided support for SAS (a statistical analysis package) to all departments on campus. Taught a two-session introductory SAS course to 50 graduate students. Provided weekly consultation to graduate students regarding their independent research projects.
Spring 2006	*Clinical Psychology Statistical Consultation Group* Formed a peer consulting group for statistics and methodology consultation among clinical students. Weekly discussions concerned data management and analysis, as well as univariate and multivariate statistical procedures for a variety of data and research questions.
January 2006	*When confidentiality and computers collide: An introduction to electronic data security for psychologists.* One-hour workshop presented to the clinical psychology area at SUNY-Binghamton.

Clinical Workshops and Case Conferences Presented

1. **Hallquist, M. N.**, Wright, A. G. C., & Lenzenweger, M. F. (2016, March). *Mapping the longitudinal covariation of personality, personality disorders, mood, and anxiety.* One-hour clinical grand rounds presentation, Department of Psychology, Penn State University.

2. **Hallquist, M. N.** (2014, October). *The developmental psychopathology of borderline personality: Understanding psychosocial and neurodevelopmental factors in adolescence.* One-hour invited lecture presented as part of the Clinical Psychology Brown Bag series. Department of Psychology, University of Pittsburgh.

3. **Hallquist, M. N.** (2009, August). *An applied introduction to clinical hypnosis*. One-hour workshop presented to the Psychology Internship Program at Western Psychiatric Institute and Clinic, Pittsburgh, PA.

4. **Hallquist, M. N.** (2009, February). *Evaluating three treatments for borderline personality disorder.* One-hour journal club presented to the WPIC-Wide Journal Club at Western Psychiatric Institute and Clinic. Chair: Dr. Stephanie Stepp. Discussants: Drs. Jennifer Morse and Paul Pilkonis. Pittsburgh, PA.

5. **Hallquist, M. N.** (2007, March). *Assessment as principled argument: Integrating psychometric, neurocognitive, projective, and interview data to understand a defended, deceptive patient.* Case conference presented to the clinical psychology department at SUNY-Binghamton.

6. **Hallquist, M. N.** (2006, February). *Whatever you resist persists: Incorporating acceptance and mindfulness in the treatment of worry and rumination.* Case conference presented to the clinical psychology department at SUNY-Binghamton.

7. **Hallquist, M. N.**, & Williams, J. C. (2005, October). *Mindfulness, acceptance, and hypnosis: Integrating suggestion and meditation in clinical hypnotherapy*. Half-day clinical workshop taught at the annual meeting of the Society for Clinical and Experimental Hypnosis, Charleston, SC.

GRANTS

Current Grant Support

R01 MH100095 (PI: Alex Dombrovski)
Title: Learning-related escalations of negative affect and suicidal thoughts
Summary: This project investigates the neurocomputational mechanisms underlying the emergence of suicidal crises in midlife adults. Building on prior work linking disrupted reinforcement learning to suicidal behavior, we combine ecological momentary assessment, smartphone-based reward and punishment learning tasks, wearable EEG and cardiovascular monitoring, and computational modeling to characterize within-person changes in learning, affect, and suicidal ideation over time. The project tests whether transient states of heightened punishment sensitivity increase vulnerability to life stress and precipitate escalating negative affect and suicidal thoughts, with the goal of identifying mechanistic targets for early intervention and suicide prevention.
Role: Co-Investigator (PI of Emory subcontract; 15% effort)
Funding Source: NIMH
Funding Period: 7/01/2026 – 06/30/2031

R01 MH140901 (PI: Tim Allen) *Total Award Amount: $3,884,732*
Title: Antagonism and neurocomputational mechanisms of cooperation
Summary: This project investigates the distinct neural and computational mechanisms underlying two facets of antagonism—callousness and exploitativeness. Using reinforcement learning models and model-based fMRI, we examine how individuals high in antagonism learn from and respond to social feedback during cooperative decision-making. The study integrates personality assessment, behavioral tasks, and longitudinal neuroimaging to identify dissociable social learning processes and their impact on real-world interpersonal functioning.
Role: Co-Investigator (PI of Emory subcontract; 10% effort)
Funding Source: NIMH
Funding Period: 07/14/2026 – 06/30/2031

R01 MH048463 (PI: Alex Dombrovski) *Total Award Amount: $3,899,830*
Title: Psychobiology of suicidal behavior in borderline personality disorder
Summary: This project focuses on how interpersonal factors in borderline personality may be linked with suicidal crises. The project tests a conceptual model that views maladaptive responses to social stressors in terms of Pavlovian interference with goal-directed decision processes. This work bridges prospective predictors of high-lethality suicide attempts in our high-risk cohort;

behavioral and affective signatures of the socio-emotional diathesis to suicidal behavior in daily life captured via experience sampling; and neural underpinnings of maladaptive decision-making assessed by fMRI augmented with a reinforcement learning computational model.
Role: Co-Investigator (PI of Emory subcontract; 15% effort)
Funding Source: NIMH
Funding Period: 04/01/2023 – 03/31/2028

Completed Grants

R01 MH124092 *Total Award Amount: $5,325,424*
(MPI: Michael Hallquist, Eran Eldar, Alexandre Dombrovski)
Title: Neurocomputational studies of mood-related momentum dynamics linking reward learning, valuation and responsivity
Summary: The central goal of this work is to characterize the neurocomputational mechanisms of mood dynamics in psychopathology using a computational reinforcement learning framework. To this end, we will combine mood tracking with experimental cognitive assessments, carried out in daily life over an extended period, and integrated with model-based neuroimaging in the lab. Our approach builds on a novel mobile platform, recently developed in our group, that combines traditional EMA, daily experimental reinforcement learning tasks, and concurrent recording of neurophysiological signals via wearable heart rate and electroencephalography sensors.
Role: Principal Investigator
Funding Source: NIMH (15% effort)
Funding Period: 09/01/2020 – 06/30/2026

R01 MH119399 (PI: Michael Hallquist) *Total Award Amount: $2,435,737*
Title: Neurocomputational mechanisms of impaired social decision-making in borderline personality
Summary: This study seeks to identify neurocomputational markers of impaired decision-making in young adults with BPD symptoms using functional neuroimaging, behavioral decision paradigms, and computational models based on Bayesian decision theory. The project will test the hypothesis that in BPD, both approach- and avoidance-related Pavlovian computations dominate the cingulo-opercular network via the phylogenetically old pathway from the central nucleus of the amygdala to the nucleus accumbens core, which underpins emotion-driven Pavlovian responses.
Role: Principal Investigator (50% effort)
Funding Source: NIMH Biobehavioral Research Awards for Innovative New Scientists (BRAINS)
Funding Period: 06/01/2019 – 03/31/2026

R01 MH100095 (PI: Alexandre Dombrovski) *Total Award Amount: $3,558,917*
Title: Reward learning in late-life suicidal behavior
Summary: This study examines the alterations in the way older depressed people prone to suicide make moment-to-moment decisions in an uncertain, changing environment, using functional imaging augmented with reinforcement learning computational models.
Role: Co-Investigator (PI of UNC subcontract; 10% effort)
Funding Source: NIMH
Funding Period: 03/05/2020 – 02/28/2026

K01 MH123915 (PI: Timothy Allen) *Total Award Amount: $878,342*
Title: Dispositional negativity and the Pavlovian control of active and passive defensive behavior

Summary: This career development award supports Dr. Allen's research on separable facets of dispositional negativity that are linked with neurocomputational systems involved in Pavlovian avoidance and escape learning.
Role: Co-Mentor (No effort)
Funding Source: NIMH
Funding Period: 07/13/2020 – 6/30/2025

F32 MH131269 (PI: Alicia Vallorani)
Title: Social attention and mentalizing during puberty and risk for social anxiety
Summary: This postdoctoral award supports Dr. Vallorani's research on the integration of social attention and mentalizing processes (both behavioral and neural) during adolescence.
Role: Co-Mentor (No effort)
Funding Source: NIMH
Funding Period: 05/01/2023 – 04/30/2025

F31 AG081073 (PI: Mallory Feldman)
Title: Age-related differences in neurobiological systems supporting emotion
Summary: This predoctoral award supports Feldman's dissertation research age-related changes in functional activation and connectivity within an allostatic interoceptive brain network.
Role: Co-Mentor (No effort)
Funding Source: NIA
Funding Period: 1/1/2023 – 12/31/2025

F31 MH121035 (PI: Alicia Vallorani)
Title: Examining naturalistic social engagement: Using mobile eye-tracking to investigate individual differences and within-person variation in adolescent behavior, attention, and neural processing.
Summary: This predoctoral award supported Alicia Vallorani's dissertation research on behavioral and attentional mechanisms underlying successful social engagement in adolescents and young adults.
Role: Co-Mentor
Funding Source: NIMH
Funding Period: 1/1/2020 – 12/31/2022

DGE-1806874 (PI: Sy-Miin Chow) *Total Award Amount: $490,804*
Title: Individualized pathways and resources to adaptive control theory-inspired scientific education
Summary: This project seeks to catalyze advances in graduate education in data science broadly and inclusively by replacing traditional "one-size-fits-all" courses with personalized digital training resources that tailor to each student's unique strengths, weaknesses, gaps in prior training, and training goals. We are developing, testing, and implementing a system called iPRACTISE that provides personalized digital training in data science as guided by user goals and a set of automated control theory algorithms.
Role: Co-Investigator
Funding Source: National Science Foundation
Funding Period: 07/01/2018 – 06/30/2021

R01 MH080243 (PI: Beatriz Luna) *Total Award Amount: $3,277,855*
Title: Developmental Changes in Striatal Neurophysiology through Adolescence
Summary: The goal of this project is to probe the neurobiological mechanisms underlying striatal changes in adolescence and how these affect brain systems and behavior. Simultaneous fMRI and PET data will be acquired using a molecular magnetic resonance scanner. The effects of

developmental changes in the striatum on brain systems will be characterized by linking striatal neurophysiology with brain connectivity measure. Neurobiological changes will be linked with behavioral measures of motivation, including a computational model of dopaminergic effects on reinforcement learning.
Role: Co-Investigator
Funding Source: NIMH
Funding Period: 04/01/2015 – 02/28/2021

K01 MH097091 (PI: Michael Hallquist)
Title: Neurodevelopmental Origins of Emotion Dysregulation in Borderline Personality
Summary: The goal of this project is to study the neural basis of emotion dysregulation and impulsivity in adolescents and young adults with symptoms of borderline personality disorder using fMRI techniques and longitudinal clinical assessments.
Role: Principal Investigator
Funding Source: NIMH
Funding Period: 04/01/2013 – 03/31/2018

R01 MH056888 (PI: Paul Pilkonis)
Title: Interpersonal functioning and emotion in borderline personality
Summary: The goal of this study is to characterize the relationships among adult attachment, interpersonal functioning, and emotion regulation in romantic couples, one of whom is diagnosed with borderline personality disorder.
Role: Co-Investigator
Funding Source: NIMH
Funding Period: 07/01/12 – 06/30/17

Institute for Computational and Data Sciences Seed Grant Program (PI: Michael Hallquist)
Title: A neurodevelopmental computational account of social influences on decision-making
Summary: This project tests a novel theory that represents social biases in terms of suboptimal convergence of Pavlovian and goal-oriented neurobehavioral systems. This research validates a new experimental test of social and non-social biases in decision-making. This initial study will characterize decision biases in typically developing adolescents and young adults. The project involves integrative computational models of behavior, peripheral physiological measures of attention and arousal, and functional neuroimaging of habitual and goal-oriented (instrumental) decision signals.
Role: Principal Investigator
Funding Source: Penn State Institute for Computational and Data Sciences
Funding Period: 04/01/2017 – 10/31/2018

Extreme Science and Engineering Discovery Environment (National Science Foundation)
Title: Simulation of the effects of rigid-body motion artifacts in resting-state functional magnetic resonance imaging on estimates of functional brain network connectivity.
Summary: Awarded 250,000 CPU hours through a competitive grant application to the Pittsburgh Supercomputing Center to simulate the effects of head motion on resting state connectivity.
Role: Principal Investigator
Funding Source: National Science Foundation
Funding Period: 05/01/2012 – 01/01/2014

F32 MH090629: Postdoctoral National Research Service Award (NRSA)
Refining Borderline Personality Disorder Using Flexible Latent Variable Modeling
Role: Principal Investigator

Sponsor: Paul A. Pilkonis, Ph.D.
Funding Source: NIMH
Funding Period: 09/01/2010-8/31/2012

PROFESSIONAL SERVICE

Editorial Activities

Ad hoc reviewer: Journal of Personality Disorders, British Journal of Mathematical and Statistical Psychology, Cerebral Cortex, Psychological Injury and Law, Journal of Personality Assessment, American Journal of Psychiatry, Journal of Abnormal Psychology, NeuroImage, Assessment, Comprehensive Psychiatry, Journal of Child Psychology and Psychiatry, Journal of Personality Disorders, Personality Disorders: Theory, Research, and Treatment, Brain Structure and Function, Structural Equation Modeling, Assessment, Journal of Personality, Biological Psychiatry, Behavioral Neuroscience, Brain Connectivity, Psychological Assessment, Clinical Psychological Science, Multivariate Behavioral Research, PLoS One, Developmental Cognitive Neuroscience, Psychometrika, Journal of Affective Disorders, Human Brain Mapping, Nature Reviews Neuroscience, Proceedings of the National Academy of Sciences, BMC Medicine, Development and Psychopathology

Editorial board service

2022–present	Developmental Cognitive Neuroscience
2021–present	Clinical Psychological Science
2016–2019	Psychological Assessment
2015–present	Personality Disorders: Theory Research, and Treatment
2014–present	Assessment
2014–present	Journal of Personality Disorders

Special section co-organizer/editor: Mixture modeling methods in personality assessment. *Journal of Personality Assessment*, 2014. Co-organized with Aidan G. C. Wright.

Grant Review

2023 Ad hoc reviewer for NIMH Adult Psychopathology and Disorders of Aging study section

2020 Grant reviewer for The Dutch Research Council (NWO)

2020 Grant reviewer for the Wellcome Trust (UK)

Professional Committees and Organizations

1. *Scientific Program Committee, Society for Research in Psychopathology. September 2023–September 2024*. Committee member helping to organize the scientific content of the annual meeting of the Society for Research in Psychopathology. Montreal, QC.

2. *Director, Human Neuroimaging Group (HNG). August 2022–June 2026*. Direct an organization of neuroimaging-affiliated labs in the Department of Psychology and Neuroscience. The HNG

oversees shared neuroimaging and psychophysiology lab space and contributes to graduate training in these areas. University of North Carolina, Department of Psychology and Neuroscience.

3. *Biomedical Research Imaging Center (BRIC) Human Imaging Advisory Committee. August 2022–June 2026.* Invited member of committee advising BRIC director regarding human imaging considerations for all current and future projects. University of North Carolina, School of Medicine.

4. *Colloquium Committee. July 2022–June 2026*. Co-lead of committee organizing department-wide symposia and colloquium speakers. Co-lead of the Junior BIPOC Scholar Speaker Series (2022 and 2023). University of North Carolina, Department of Psychology and Neuroscience.

5. *Departmental Advisory Committee. July 2022–July 2026*. Elected member of committee advising the Chair in departmental matters. The committee helps to set department priorities, make informed decisions, and develop short and long-term planning strategies. University of North Carolina, Department of Psychology and Neuroscience.

6. *Diversifying Psychology Weekend. 2022, 2023.* Co-led a panel discussion about applying to graduate school in psychology as part of UNC's Diversifying Psychology Weekend. This event provides structured discussions and informal mentorship for ethnic/racial minority undergraduates and recent college graduates interested in pursuing doctoral level training in psychology and neuroscience.

7. *Climate and Inclusion Committee. July 2020–April 2023.* Member of committee focusing on assessing departmental climate, increasing networking opportunities, and enhancing diversity, equity, and inclusion in the department. University of North Carolina, Department of Psychology and Neuroscience.

8. *Member, Clinical Utility Workshop for the Hierarchical Taxonomy of Psychopathology (HiTOP) Consortium. April 2019-present*. Contribute to workgroup projects and planning to translate the HiTOP structural model of psychopathology into clinically useful research, including the validation of instruments for clinical practice.

9. *Member, Neurobiological Foundations Workshop for the Hierarchical Taxonomy of Psychopathology (HiTOP) Consortium. April 2019-present*. Contribute to workgroup projects and planning to advance connections between the HiTOP structural model of psychopathology and neurobiological research.

10. *Member, Executive Committee for the Hierarchical Taxonomy of Psychopathology (HiTOP) Consortium. 2019-2021.* Met monthly with executive committee members to organize consortium activities, shape scientific directions, work toward creating a scientific society, and pursue external funding opportunities.

11. *Co-Chair, Developmental Workgroup for the Hierarchical Taxonomy of Psychopathology (HiTOP) Consortium* (with Dr. Jennifer Tackett, Northwestern University)*. April 2019-June 2021*. Lead workgroup calls to infuse developmental considerations into the HiTOP model and write workgroup papers about structural models of psychopathology in developing populations.

12. *Student-Mentor Committee. August 2019–July 2020*. Co-chaired a committee within the clinical psychology area to review graduate student-mentor concerns, including equity and diversity in training, as well as implementing policies to promote transparency in resolving student-mentor conflicts. Penn State University, Department of Psychology.

13. *Institute for Computational and Data Sciences (ICDS) Coordinating Committee. March 2016–May 2017*. Review institute mission and priorities, discuss expansion of ICDS infrastructure and personnel, develop strategic plans for ICDS initiatives. Penn State University.

14. *Quantitative Training Committee. August 2015–June 2020*. Coordinate psychology graduate quantitative methods curriculum, discuss and develop departmental quantitative initiatives. Penn State University.

15. *Magnetic Resonance Research Center Advisory Board. July 2014–August 2015.* Met regularly with scientists and administrators involved in MRI research to discuss data sharing, technological advances, and optimizing MRI protocols for psychiatric and psychological research. University of Pittsburgh.

16. *Clinical Psychology Graduate Interview Coordinator. September 2008-January 2009.* Coordinated graduate student interviews for the SUNY-Binghamton program, including scheduling and travel. Conducted individual interviews with most applicants and conferred with faculty regarding selection decisions.

17. *Clinical Psychology Student Representative. September 2006-May 2007*. Attended weekly faculty meetings to raise student concerns regarding the clinical program and to consult with faculty about curricular and program decisions. SUNY-Binghamton. Binghamton, NY.

Other professional experience

1. *Independent Web Programming Consultant. February 2003-June 2006.* Designed and programmed complex web applications for the Internet commerce industry using a mixture of Microsoft and open source technologies (ASP, C++, MSSQL 2000, PHP, MySQL, Perl).

2. *Senior Web Programmer, HBG New Media, Inc., Madison, WI. September 2000-January 2003.* Designed and implemented multi-tiered web applications for the Internet commerce and publication industries using Microsoft technologies (ASP, COM+, C++, MSSQL 2000); managed and trained a group of six web programmers; provided technical documentation for project codebase.