

ELIZABETH P. HAYDEN

CURRICULUM VITAE

Personal Information

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Positions

2015 Professor
 Department of Psychology
 University of Western Ontario

2012-present Principal Investigator, The Brain and Mind Institute

2010-present Associate Professor
 Department of Psychology
 University of Western Ontario

2005-2010 Assistant Professor
 Department of Psychology
 University of Western Ontario

2008-present Scientist
 Children's Health Research Institute
 Part of Lawson Health Research Institute

2005-2007 Associate Scientist
 Children's Health Research Institute
 Part of Lawson Health Research Institute

Education & Training

2007 New England Biolabs Molecular Biology and PCR course

2003-2005 Postdoctoral Research Fellow
Institute of Psychiatric Research
Indiana University School of Medicine

2002-2003 Psychology Resident
Indiana University School of Medicine

1997-2003 Ph.D. in Clinical Psychology
SUNY at Stony Brook
Dissertation advisor: Daniel Klein, Ph.D

1992-1997 Bachelor of Arts, magna cum laude
SUNY at Stony Brook

Academic Awards

2013-2014 Faculty Scholar, University of Western Ontario

1995 Phi Beta Kappa

1992-1997 SUNY at Stony Brook Honors College program

Travel Awards

2008 NIMH, American Psychopathological Association meeting

2006 SSHRC, Society for Research in Psychopathology meeting

2003 NIMH, Child Depression Research Consortium meeting

Training Grants

2009-2014 Ontario Ministry of Research and Innovation
Early Researcher Award (total amount: \$150,000)
Role: Principal Investigator
Project title: Emerging childhood vulnerability to depression:
Biological, emotional, and cognitive pathways

2009-2016 Children's Health Research Institute
Quality of Life Initiative (total amount: \$80,000)
Role: Graduate Supervisor
Student Trainees: Katie Kryski, Sarah Mackrell, Yuliya
Kotelnikova, Victoria Johnson, Sarah Ouellette, Matthew
Vandermeer, Andrew Daoust, Ola Mohammad Ali

Research Grants (funded)

- 2016-2018 Social Sciences and Humanities Research Council
Insight Development Grant (total amount: \$52,700)
Role: Principal Investigator
Project title: An experimental approach to examining the effects
of mindfulness on young children's self-regulation
- 2015-2020 Natural Sciences and Engineering Research Council of Canada
Discovery Grant (total amount: \$150,000)
Role: Principal Investigator
Project title: Measuring reactive and regulatory processes in
middle childhood
- 2015-2017 Ontario Mental Health Foundation
Research Grant (total amount: \$150,000)
Role: Principal Investigator
Project title: Children's neural and cortisol reactivity in
depression-relevant contexts: A high-risk offspring study
- 2015-2016 National Institutes of Mental Health
R01 (total amount: \$151,654)
Role: Collaborator
Project title: Harmonizing developmental studies examining
attention bias, behavioral inhibition and anxiety
- 2011-2012 Academic Development Fund
Small Grant (total amount: \$7700)
Role: Principal Investigator
Project title: A preliminary investigation of the structural neural
correlates of early stress
- 2010-2014 National Institutes of Mental Health
R01 (total amount: \$2,897,145 US)
Role: Co-investigator
Project title: Temperamental Emotionality in Preschoolers and
Depression Risk
- 2008-2013 Canadian Institutes of Health Research
Operating Grant (total amount: \$780,000)
Role: Principal Investigator
Project title: Gene-environment interplay and the developmental
psychopathology of internalizing disorders

- 2008-2010 Social Sciences and Humanities Research Council
Standard Research Grant (total amount: \$157,287)
Role: Principal Investigator
Project title: Childhood temperamental vulnerability to
internalizing psychopathology: Emotional and cognitive
pathways
- 2007-2008 Ontario Mental Health Foundation
Research Grant (total amount: \$160,000)
Role: Co-investigator
Project title: Cognitive vulnerability in adolescents at risk for
depression
- 2006-2008 National Alliance for Research on Schizophrenia and Affective
Disorders (NARSAD)
Young Investigator Award (total amount: \$60,000 US)
Project title: Molecular genetics of child temperament
- 2006-2008 Academic Development Fund
Major Grant (total amount: \$140,000)
Role: Principal Investigator
Project title: Temperamental vulnerability to internalizing
psychopathology

Memberships in Professional Societies

- 2014-present Fellow, Association for Psychological Science
- 2014-present Fellow, American Psychopathological Association
- 2014-present Member, Canadian Psychological Association
- 2009-present International Society for Child and Adolescent Psychopathology
- 2008-present American Psychopathological Association
- 2006-present Society for a Science of Clinical Psychology (APA Division 12,
Section 3)
- 2004-present Society for Research in Psychopathology
- 2000-present Association for Psychological Science

Teaching Experience

2005, 2007, 2009, 2011, 2013, 2015	Instructor, PSY 621a, Child Psychopathology
2012-2014	Instructor, PSY 2320, Abnormal Child Psychology
2011	Instructor, PSY 4655, Personality and Developmental Psychopathology
2008-2009	Instructor, PSY 2301, Introduction to Clinical Psychology
2006; 2010	Instructor, PSY 364f, Child Psychopathology
2001	Co-instructor, PSY 447, Readings in Psychology (Adult Psychopathology)
2000, 2001	Instructor, PSY 335, Clinical Behavior Modification
2000	Teaching Assistant, PSY 338, Abnormal Child Psychology

Professional and Departmental Service

2017-2019	Secretary, Society for Research in Psychopathology (elected office)
2014-	Canadian Institutes of Health Research, Social & Developmental Aspects of Children's & Youth's Health peer review committee, committee member
2014-	Ontario Ministry of Research and Innovation Early Researcher Award, reviewer
2013-2015	National Institutes of Health, Psychosocial Development, Risk, and Prevention, study section reviewer
2012-2014	Member-at-large, Society for Research in Psychopathology (elected office)
2011-2014	Canadian Institutes of Health Research, Social & Developmental Aspects of Children's & Youth's Health peer review committee, internal reviewer
2010-2012	Membership committee, Society for a Science of Clinical Psychology

2009; 2012	Student poster awards judge, Annual meeting of the Association for Psychological Science, SSCP poster section
2008-2009	Medical Research Council, Research grants, Ad hoc reviewer
2008-2011	Colloquium series coordinator, UWO Dept. of Psychology
2008- present	Nominations committee, UWO Dept. of Psychology (served as committee chair in 2008-2010)
2008- present	Coordinator, Clinical area research brown bags, UWO clinical Program
2007-2009	Secretary-Treasurer, Society for a Science of Clinical Psychology (elected office)
2007; 2009	Dissertation awards reviewer, Society for a Science of Clinical Psychology
2007-2008	Curriculum review committee member, UWO clinical program
2006-2011	Ontario Mental Health Foundation, Research fellowships peer-review committee
2005-2006	Comprehensive exam committee member, UWO clinical program

Manuscript Reviews and Editorial Positions

2017-	Associate Editor, Psychological Assessment
2014-	Associate Editor, Personality and Individual Differences
2016-	Consulting Editor, Clinical Psychological Science
2015-	Consulting Editor, Developmental Psychology
2014-2016	Consulting Editor, Psychological Assessment
2013-	Guest editor, Journal of Abnormal Psychology, special section on stress sensitivity and psychopathology
2012-	Reviewer, submissions to the Society for Research in Child Development 2013 meeting
2011-	Consulting editor, Journal of Abnormal Psychology

2011-	Editorial board, Personality and Individual Differences
2011-	Review board, Frontiers of Behavioral and Psychiatric Genetics
2003-present	Selection of ad-hoc reviews: Archives of General Psychiatry Biological Psychiatry Psychological Science American Journal of Medical Genetics Part B: Neuropsychiatric Genetics Psychiatric Genetics Psychological Medicine Journal of Affective Disorders Cognitive Therapy and Research Journal of Abnormal Child Psychology Behavior Research and Therapy Genes, Brain, & Behavior PLoS ONE

Manuscripts Under Review (underlined names are those of student supervisees)

1. Nadler, R., Cordy, M., Stengel, J., Segal, Z.V., & Hayden, E.P. (revised and resubmitted). A Brief mindfulness practice reduces self-reported arousal in young children.
2. Meyer, A., Hajcak, G., **Hayden, E.P.**, Sheikh, H.I., Singh, S.M., & Klein, D.N. (revised and resubmitted). A genetic variant BDNF polymorphism interacts with hostile parenting to predict error-related brain activity in children and thereby risk for internalizing disorders.
3. Vandermeer, M.R.J., Sheikh, H.I., Singh, S.M., Klein, D.N., Olino, T.M., Dyson, M.W., Bufferd, S.J., Klein, D.N., & Hayden, E. P. (under review). The BDNF gene val66met polymorphism and behavioural inhibition in early childhood.
4. Kryski, K.R., Olino, T.M., Dyson, M.W., Durbin, C.E., Klein, D.N., & **Hayden, E.P.** (under review). Associations between observed temperament in preschoolers and psychopathology risk.
5. Sheikh, H.I., Kryski, K.R., Kotelnikova, Y., **Hayden, E.P.** & Singh, S.M. (under review). Catechol-*O*-Methyltransferase gene (*val158met*) polymorphisms and anxious symptoms in early childhood: The roles of hypothalamus-pituitary-adrenal axis reactivity and life stress.

Published and In-Press Articles and Chapters

1. Kopala-Sibley, D.C., **Hayden, E.P.**, Singh, S.M., Sheikh, H.I., Kryski, K.R., & Klein, D.N. (in press). Gene-environment correlations in the cross-generational transmission of parenting: The moderating role of children's 5-HTTLPR genotype. *Social Development*.
2. Hayden, E. P., & Vandermeer, M. (in press). Mental Illness. In M. H. Bornstein (Ed.), *The SAGE Encyclopedia of Lifespan Human Development* (p. 0-0). Thousand Oaks, CA: SAGE Publications.
3. Olino, T.M., & Hayden, E.P. (in press). Personality assessment in children with mental health problems. In J. N. Butcher, J. Hooley, & P.C. Kendall (Eds.), *APA Handbook of Psychopathology*. Washington, DC: APA.
4. **Hayden, E. P.** (in press). Genes. In A. Wenzel (Ed.), *The SAGE encyclopedia of abnormal and clinical psychology* (p. 0-0). New York, NY: Sage.
5. Kotelnikova, Y. & **Hayden, E.P.** (in press). Child temperament. In *Encyclopedia of Personality and Individual Differences*. New York, NY: Springer.
6. Vandermeer, M.R. J., & **Hayden, E.P.** (in press). Stress reactivity. In *Encyclopedia of Personality and Individual Differences*. New York, NY: Springer.
7. Kotelnikova, Y., LeMoult, J., Mackrell, S.V.M., Sheikh, H.I., Singh, S.M., Joormann, J., Gotlib, I.H., & **Hayden, E.P.** (in press). The serotonin transporter promoter variant, stress, and attentional biases in middle childhood. *Personality and Individual Differences*.
8. Johnson, V.C., Olino, T.M., Klein, D.N. & **Hayden, E.P.** (in press). A longitudinal investigation of predictors of the stability of behavioural inhibition in early childhood. *Journal of Research in Personality*.
9. Mackrell, S.V.M., Kotelnikova, Y., Jordan, P.L., & Hayden, E.P. (in press). The role of pubertal development in emerging depression risk in middle childhood. *Personality and Individual Differences*.
10. Kotelnikova, Y., Olino, T.M., Klein, D.N., Mackrell, S.V.M., & **Hayden, E.P.** (in press). Higher- and lower-order factor analyses of the Temperament in Middle Childhood Questionnaire (TMCQ). *Assessment*.
11. Johnson, V.C., Kryski, K.R., Sheikh, H.I., Smith, H.J., Singh, S.M., & **Hayden, E.P.** (in press). The serotonin transporter promoter polymorphism moderates the continuity of behavioural inhibition in early childhood. *Development and Psychopathology*.

12. Kotelnikova, Y., Olino, T.M., Klein, D.N., Mackrell, S.V.M., & **Hayden, E.P.** (2015). Higher- and lower-order factor analyses of the Temperament in Middle Childhood Questionnaire. *Psychological Assessment*. Advance online publication.
13. Pagliaccio, D., Luking, K.R., Anokhin, A.P., Gotlib, I.H., **Hayden, E.P.**, Olino, T.M., Peng, C., Proudfit, G.H., Barch, D.M. (2015). Revising the BIS/BAS to study development: Metric invariance and normative effects of age and sex from childhood through adulthood. *Psychological Assessment*. Advance online publication.
14. Kotelnikova, Y., Olino, T.M., Klein, D.N., Kryski, K.R., & **Hayden, E.P.** (2015). Higher- and lower-order factor analyses of the Children's Behavior Questionnaire in early and middle childhood. *Psychological Assessment*. Advance online publication.
15. Harkness, K.L., **Hayden, E.P.**, & Lopez-Duran, N.L. (2015). Stress sensitivity and stress sensitization in psychopathology: An introduction to the special section. *Journal of Abnormal Psychology, 124*, 1-3.
16. Ouellette, S.J., Russell, E., Kryski, K.R., Sheikh, H.I., Singh, S.M., Koren, G., & **Hayden, E.P.** (2015). Hair cortisol concentrations in higher- and lower-stress mother-daughter dyads: A pilot study of associations and moderators. *Developmental Psychobiology, 57*, 519-534.
17. Goldstein, B.L., **Hayden, E.P.**, & Klein, D.N. (2014). Stability of self-referent encoding task performance and associations with change in depressive symptoms from early to middle childhood. *Cognition and Emotion, 22*, 1-11.
18. Sheikh, H.I., Joannis, M.F., Mackrell, S.V.M., Kryski, K.R., Smith, H.J., Singh, S.M., & **Hayden, E.P.** (2014). Links between white matter microstructure and cortisol reactivity to stress in early childhood: Evidence for moderation by parenting. *Neuroimage: Clinical, 6*, 77-85.
19. **Hayden, E.P.**, Hankin, B.L., Mackrell, S.V.M., Sheikh, H.I., Jordan, P.J., Dozois, D.J.A., Singh, S.M., Olino, T.M., Watamura, S.E., & Badanes, L.S. (2014). Parental depression and child cognitive vulnerability predict children's cortisol reactivity. *Development and Psychopathology, 26*, 1445-1460.
20. Beauchaine, T.B., & **Hayden, E.P.** (2014). The developmental psychopathology of child disorders. In J.C. Norcross, G.R. VandenBos, & D.K. Freedheim (Eds.), *APA handbook of clinical psychology*. Washington, D.C.: APA Press.
21. Evraire, L.E., Dozois, D.J.A., & **Hayden, E.P.** (2014). Assessment of cognitive vulnerability to psychopathology: Issues in theory and practice. In G.P. Brown & D.A. Clark (Eds.), *Cognitive therapy assessment, diagnosis, and case formulation: charting a new course for research and practice*. New York: Guilford Press.

22. **Hayden, E.P.**, & Mash, E. J. (2014). Child psychopathology: A developmental-systems perspective. In E. J. Mash & R. A. Barkley (Eds.), *Child psychopathology* (3rd ed.) (pp. 3-74). New York: Guilford Press.
23. Kotelnikova, Y., Clark, L.A., Vernon, P.A., & **Hayden, E.P.** (2014). Development and validation of the Schedule for Nonadaptive and Adaptive Personality Brief Self-Description Rating Form (SNAP-BSRF). *Assessment*.
24. Kotelnikova, Y., Mackrell, S.V.M., Jordan, P.J., & **Hayden, E.P.** (2014). Longitudinal associations between reactive and regulatory temperament traits and depressive symptoms in middle childhood. *Journal of Clinical Child and Adolescent Psychology*. Advance online publication
25. Mackrell, S.V.M., Sheikh, H.I., Kotelnikova, Y., Kryski, K.R., Jordan, P.J., Singh, S.M., & **Hayden, E.P.** (2014). Child temperament and parental depression predict cortisol reactivity to stress in middle childhood. *Journal of Abnormal Psychology*, *123*, 106-116.
26. Kryski, K.R., Smith, H.J., Sheikh, H.I., Singh, S.M., & Hayden, E.P. (2014). Evidence for evocative gene-environment correlation between child oxytocin receptor (OXTR) genotype and caregiver behavior. *Personality and Individual Differences*, *64*, 107-110.
27. **Hayden, E.P.**, Olino, T.M., Bufferd, S.J., Miller, A., Dougherty, L.R., Sheikh, H.I., Singh, S.M., & Klein, D.N. (2013). The 5-HTTLPR and BDNF Val66Met polymorphisms and maternal history of depression: Associations with cognitive vulnerability to depression in childhood. *Development and Psychopathology*, *25*, 587-598.
28. Kotelnikova, Y., Olino, T.M., Mackrell, S.V.M., Jordan, P.J., & **Hayden, E.P.** (2013). Structure of observed temperament in middle childhood. *Journal of Research in Personality*, *47*, 524-532.
29. **Hayden, E.P.**, Olino, T.M., Mackrell, S.V.M., Jordan, P.J., Desjardins, J., & Katsiroumbas, P. (2013). Cognitive vulnerability to depression during middle childhood: Stability and associations with maternal affective styles and parental depression. *Personality and Individual Differences*, *55*, 892-897.
30. Kryski, K.R., Smith, H.J., Sheikh, H.I., Singh, S.M., & **Hayden, E.P.** (2013). HPA axis reactivity in early childhood: associations with symptoms and moderation by sex. *Psychoneuroendocrinology*, *38*, 2327-2336.
31. Smith, H.J., Kryski, K.R., Sheikh, H.I., Singh, S.M., & **Hayden, E.P.** (2013). The role of parenting and dopamine D4 receptor gene polymorphisms in children's inhibitory control. *Developmental Science*, *16*, 515-530.

32. Sheikh, H.I., Kryski, K.R., Smith, H.J., Dougherty, L.R., Bufferd, S.J., Klein, D.N., Singh, S.M., **Hayden, E.P.** (2013). Catechol-O-Methyltransferase gene Val158Met polymorphism and depressive symptoms during early childhood. *American Journal of Medical Genetics: Neuropsychiatric Genetics*, *162B*, 245-252.
33. Kryski, K.R., Dougherty, L.R., Dyson, M.W., Olino, T.M., Liptook, R.S., Klein, D.N., & **Hayden, E.P.** (2013). Effortful control and parenting: Associations with HPA axis reactivity in early childhood. *Developmental Science*, *16*, 531-541.
34. **Hayden, E.P.**, Hanna, B., Sheikh, H.I., Liptook, R.S., Kim, J., Singh, S.M., & Klein, D.N., (2013). Child dopamine transporter genotype and parenting: Evidence for evocative gene-environment correlations. *Development and Psychopathology*, *25*, 163-173.
35. Sheikh, H.I., Kryski, K.R., Smith, H.J., **Hayden, E.P.**, & Singh, S.M. (2013). Corticotropin-releasing hormone system polymorphisms are associated with children's cortisol reactivity. *Neuroscience*, *229*, 1-11.
36. Mackrell, S.V.M., Johnson, E.M., Dozois, D.J.A., & **Hayden, E.P.** (2013). Negative life events and cognitive vulnerability to depression: Informant effects and sex differences in the prediction of depressive symptoms in middle childhood. *Personality and Individual Differences*, *54*, 463-468.
37. Olino, T.M., Durbin, C.E., Klein, D.N., & **Hayden, E.P.** (2012). Gender differences in young children's temperament traits: An observational study. *Journal of Personality*, *81*, 119-129.
38. Smith, H.J., Sheikh, H.I., Dyson, M.W., Olino, T.M., Liptook, R.S., **Hayden, E.P.**, Singh, S.M., & Klein, D.N. (2012). Parenting and child DRD4 genotype interact to predict children's early emerging effortful control. *Child Development*, *83*, 1932-1934.
39. Meyer, A., Klein, D.N., Torpey, D.C., Kujawa, A.J., **Hayden, E.P.**, Sheikh, H.I., Singh, S.M., & Hajcak, G. (2012). Additive effects of the dopamine D2 receptor (DRD2) and dopamine transporter (DAT1) gene on the error-related negativity (ERN) in young children. *Genes, Brain, and Behavior*, *11*, 695-703.
40. Kryski, K.R., Smith, H.J., Sheikh, H.I., Singh, S.M., & **Hayden, E.P.** (2011). Assessing stress reactivity indexed via salivary cortisol in preschool-aged children. *Psychoneuroendocrinology*, *36*, 1127-1136.
41. **Hayden, E.P.**, Durbin, C.E., Klein, D.N., & Olino, T.M. (2010). Maternal personality influences the relationship between maternal reports and laboratory measures of child temperament. *Journal of Personality Assessment*, *92*, 586-593.

42. **Hayden, E.P.**, Klein, D.N., Dougherty, L.R., Olino, T.M., Dyson, M.W., Durbin, C.E., Sheikh, H.I., & Singh, S.M. (2010). The Role of BDNF genotype, parental depression, and relationship discord in predicting early-emerging negative emotionality. *Psychological Science*, *21*, 1678-1685.
43. **Hayden, E.P.**, Klein, D.N., Dougherty, L.R., Olino, T.M., Durbin, C.E., Sheikh, H.I., & Singh, S.M. (2010). The Dopamine D2 Receptor Gene and depressive and anxious symptoms in childhood: Associations and evidence for gene-environment correlation and gene-environment interaction. *Psychiatric Genetics*, *20*, 304-310.
44. **Hayden, E.P.**, Klein, D.N., Olino, T.M., Dougherty, L.R., Durbin, C.E., Sheikh, H.I., & Singh, S.M. (2010). The serotonin transporter promoter polymorphism and childhood positive and negative emotionality. *Emotion*, *10*, 696 -702.
45. Sheikh, H.I., **Hayden, E.P.**, Kryski, K.R., Smith, H.J., & Singh, S.M. (2010). Genotyping the BDNF rs6265 (val66met) polymorphism by one-step Amplified Refractory Mutation System PCR. *Psychiatric Genetics*, *20*, 109-112.
46. Dougherty, L.R., Klein, D.N., Congdon, E., Canli, T., & **Hayden, E.P.** (2010). Interaction between 5-HTTLPR and BDNF Val66Met polymorphisms on HPA axis reactivity in preschoolers. *Biological Psychology*, *83*, 93-100.
47. Sheikh, H.I., Dougherty, L.R., **Hayden, E.P.**, Klein, D.N., & Singh, S.M. (2010). Glucagon-like peptide-1 receptor gene polymorphism (Leu260Phe) is associated with morning cortisol in preschoolers. *Progress in Neuropsychopharmacology & Biological Psychiatry*, *34*, 980-983.
48. Dougherty, L.R., Klein, D.N., Durbin, C.E., Hayden, E.P., & Olino, T.M. (2010). Temperamental positive and negative emotionality and children's depressive symptoms: A longitudinal prospective study from age three to age ten. *Journal of Social and Clinical Psychology*, *29*, 464-490.
49. Durbin, C.E., Schalet, B.D., **Hayden, E.P.**, Simpson, J., & Jordan, P.L. (2009). Hypomanic personality traits: A multi-method exploration of their association with normal and abnormal dimensions of personality. *Journal of Research in Personality*, *43*, 898-905.
50. Maloney, B., Ray, B., **Hayden, E.P.**, Nurnberger, J.I., & Lahiri, D.K. (2009). Development and validation of the superior 'Rapid Method for Swab' (RMS) to genotype serotonin transporter promoter polymorphism (SLC6A4). *Psychiatric Genetics*, *19*, 72-82.
51. **Hayden, E.P.**, Seeds, P.M., & Dozois, D.J.A. (2009). Risk and vulnerability in adolescent depression. Invited chapter in C.A. Essau (Ed.), *Treatments for adolescent depression: Theory and practice* (pp. 27-56). New York, New York: Oxford University Press.

52. Sheikh, H.I., **Hayden, E.P.**, Singh, S., Dougherty, L.R., Olino, T.M., Durbin, C.E., & Klein, D.N. (2008). An examination of the association between the 5-HTT promoter region polymorphism and depressogenic attributional styles in childhood. *Personality and Individual Differences*, *45*, 425-428.
53. Yechiam, E., **Hayden, E.P.**, Bodkins, M., Hetrick, W.P., & O'Donnell, B.F. (2008). Decision making in bipolar disorder: A cognitive modeling approach. *Psychiatry Research*, *161*, 142-152.
54. **Hayden, E.P.**, Shankman, S.A., Olino, T.M., Durbin, C.E., Tenke, C.E., Bruder, G.E., & Klein, D.N. (2008). Cognitive and temperamental vulnerability to depression: Longitudinal associations with regional cortical activity. *Cognition and Emotion*, *22*, 1415-1428.
55. Laptook, R.S., Klein, D.N., Durbin, C.E., **Hayden, E.P.**, Olino, T.M., & Carlson, G. (2008). Differentiation between low positive affectivity and behavioral inhibition in preschool-age children: A Comparison of behavioral approach in novel and non-novel contexts. *Personality and Individual Differences*, *44*, 756-765.
56. **Hayden, E.P.**, Bodkins, M., Brenner, C., Shekhar, A., Nurnberger, J.I., O'Donnell, B.F., & Hetrick, W.P. (2008). A multi-method investigation of the behavioral activation system in bipolar disorder. *Journal of Abnormal Psychology*, *117*, 164-170.
57. **Hayden, E.P.**, Dougherty, L.R., Maloney, B., Olino, T.M., Durbin, C.E., Sheikh, H.I., Nurnberger, J.I., Lahiri, D.K., & Klein, D.N. (2008). Early-emerging cognitive vulnerability to depression and the serotonin transporter promoter region polymorphism. *Journal of Affective Disorders*, *107*, 227-30.
58. **Hayden, E.P.**, Dougherty, L.R., Maloney, B., Durbin, C.E., Olino, T.M., Nurnberger, J.I., Lahiri, D.K., & Klein, D.N. (2007). Temperamental fearfulness in childhood and the serotonin transporter promoter region polymorphism: A multimethod association study. *Psychiatric Genetics*, *17*, 135-142.
59. Durbin, C.E., **Hayden, E.P.**, Klein, D.N., & Olino, T. (2007). Stability of laboratory assessed temperament traits from ages 3 to 7. *Emotion*, *7*, 388-399.
60. Rodd, Z.A., Bertsch, B.A., Strother, W.N., Le-Niculescu, H., Balaraman, Y., **Hayden, E.P.**, Jerome, R.E., Lumeng, L., Nurnberger Jr., J.I., Edenberg, H.J., McBride, W.J., & Niculescu, A.B. (2007). Candidate genes, pathways and mechanisms for alcoholism: An expanded convergent functional genomics approach. *The Pharmacogenomics Journal*, *7*, 222-256.

61. **Hayden, E.P.**, Wiegand, R.E., Meyer, E.T., Bauer, L.O., O'Connor, S.J., Nurnberger Jr., J.I., Chorlian, D.B., Porjesz, B., & Begleiter, H. (2006). Patterns of frontal brain activity in alcohol-dependent probands. *Alcoholism: Clinical and Experimental Research*, *30*, 1986-1991.
62. **Hayden, E.P.** & Nurnberger, J.I. Jr. (2006). Genetics of bipolar disorder. In R.S. El-Mallakh & S.N. Ghaemi (Eds.), *Bipolar depression: A comprehensive guide* (pp.69-98). Washington, DC: American Psychiatric Publishing, Inc.
63. **Hayden, E.P.**, Klein, D.N., Durbin, C.E., & Olino, T.M. (2006). Positive emotionality at age three predicts cognitive styles in seven-year-old children. *Development & Psychopathology*, *18*, 409-423.
64. **Hayden, E.P.** & Nurnberger, J.I. Jr. (2006). Molecular genetics of bipolar disorder. *Genes, Brain & Behavior*, *5*, 85-95.
65. **Hayden, E.P.**, Klein, D.N., & Durbin, C.E. (2005). Parent reports and laboratory assessments of child temperament: A comparison of their associations with risk for depression and externalizing disorders. *Journal of Psychopathology and Behavioral Assessment*, *27*, 89-100.
66. Durbin, C.E., Klein, D.N., **Hayden, E.P.**, Buckley, M.E., & Moerk, K.C. (2005). Temperamental emotionality in preschoolers and parental mood disorders. *Journal of Abnormal Psychology*, *114*, 28-37.
67. Olino, T.M., Klein, D.N., Durbin, C.E., **Hayden, E.P.**, & Buckley, M.E. (2005). The structure of extraversion in preschool aged children. *Personality and Individual Differences*, *39*, 481-492.
68. Shankman, S.A., Tenke, C.E., Bruder, G.E., Durbin, C.E., **Hayden, E.P.**, & Klein, D.N. (2005). Low positive emotionality in young children: Association with EEG asymmetry. *Development and Psychopathology*, *17*, 85-98.
69. Buckley, M.E., Klein, D.N., Durbin, C. E., **Hayden, E.P.**, & Moerk, K. C. (2002). Development and validation of a q-sort procedure to assess temperament and behavior in preschool-age children. *Journal of Clinical Child and Adolescent Psychology*, *31*, 525-539.
70. **Hayden, E.P.** & Klein, D.N. (2002). Five-year course of dysthymia predicted by several factors. *Clinician's Research Digest*, *20*, 6.
71. **Hayden, E.P.** & Klein, D.N. (2001). Outcome of dysthymic disorder at 5-year follow-up: The effect of familial psychopathology, early adversity, personality, comorbidity, and chronic stress. *American Journal of Psychiatry*, *158*, 1864-1870.

72. Klein, D.N. & **Hayden, E.P.** (2000). Dysthymic disorder: Current status and future directions. *Current Opinion in Psychiatry*, 13, 171-177.

Presentations & Colloquia

1. **Hayden, E.P.** (2016, March). Early emerging depression vulnerability: Pathways and processes. *Talk given as part of the Offord Centre for Child Studies seminar series*. Offord Centre, Hamilton, ON.
2. Vandermeer, M. R. J., Kotelnikova, Y., Kryski, K. R., & Hayden, E.P. (2016). *Relationship quality moderates mother-father personality agreement*. Poster to be presented at the Association for Psychological Science 28th Annual Convention, Chicago, IL, USA.
3. Kotelnikova, Y., Sheikh, H.I., Vandermeer, M.R.J., Kryski, K.R., Singh, S.M., Olino, T.M., & Hayden, E.P. (2016). *Predictors of Latent Cortisol Trajectory Classes in the Context of Stress*. Poster to be presented at the Association for Psychological Science 28th Annual Convention, Chicago, IL, USA.
4. Kotelnikova, Y., Olino, T.M., Klein, D.N., & **Hayden, E.P.** (2015). *Nature and structure of temperament in early and middle childhood: A multi-method approach*. Talk presented at the International Society for the Study of Individual Differences Conference, London, ON, Canada.
5. Kopala-Sibley, D.C., **Hayden, E.P.**, Kryski, K.R., Sheikh, H., Singh, S.M., & Klein, D.N. (May, 2015). *Child serotonin transporter genotype moderates the cross-generational transmission of parenting and the effect of parenting on the development of depressive symptoms in children*. Poster presented at Association for Psychological Science annual meeting, New York City, New York.
6. Johnson, V.C., Sheikh, H.I., Singh, S.M., Klein, D.N., & **Hayden, E.P.** (September 2014). *A longitudinal investigation of predictors of the stability of behavioural inhibition in early childhood*. Poster presented at the annual meeting of the Society for Research in Psychopathology, Evanston, IL.
7. Kotelnikova, Y., Mackrell, S.V.M., Sheikh, H.I., Singh, S.M., & **Hayden, E.P.** (September 2014). *The serotonin transporter gene and stress interact to predict children's attentional biases for positive stimuli*. Poster presented at the annual meeting of the Society for Research in Psychopathology, Evanston, IL.
8. Kryski, K.R., Dougherty, L.R., Sheikh, H.I., Singh, S.M., Klein, D.N., & **Hayden, E.P.** (September 2014). *Maternal depression and cortisol reactivity in early childhood: longitudinal associations with child symptoms. a multi-site study*. Poster presented at the annual meeting of the Society for Research in Psychopathology, Evanston, IL.

9. Mackrell, S. V. M., Kotelnikova, Y., Jordan, P. L., & **Hayden, E. P.** (September 2014). *Pubertal status moderates associations between depression risks and children's depressive symptoms*. Poster presented at the annual meeting of the Society for Research in Psychopathology, Evanston, IL.
10. Ouellette, S.J., Russell, E., Kryski, K.R., Sheikh, H.I., Singh, S.M., Koren, G., & **Hayden, E.P.** (September 2014). *Hair cortisol concentrations in low- and high-stress mother-daughter dyads: A pilot study of associations and moderators*. Poster presented at the annual meeting of the Society for Research in Psychopathology, Evanston, IL.
11. Kryski, K. R., Smith, H. J., & **Hayden, E. P.** (2013, September). *Temperamental emotionality and effortful control in preschool-aged children: Associations with parental depression*. Poster presented at the annual meeting of the Society for Research in Psychopathology, Oakland, CA.
12. Kotelnikova, Y., Vernon, P.A., Clark, L.A., & **Hayden, E.P.** (2013, September). *Initial Validation of the Schedule for Nonadaptive and Adaptive Personality Brief Self Rating Form (SNAP-BSRF)*. Poster presented at the annual meeting of the Society for Research in Psychopathology, Oakland, CA.
13. **Hayden, E.P.**, Joanisse, M., & Singh, S.M. (2013, June). *Sex-specific pathways to depression: Biological indices of stress-sensitivity in preschool-aged girls*. Talk presented at the annual meeting of the International Society for Research on Child and Adolescent Psychopathology, Leuven, Belgium.
14. Sheikh, H.I., Kryski, K.R., Smith, H.J., Tolep, M.R., Smith, V.C., Dougherty, L.R., **Hayden, E.P.**, & Singh, S.M. (2013, May) *Pathways between Glucagon-like peptide-1 receptor gene polymorphisms (Leu260Phe) and internalizing symptoms in early childhood: The roles of HPA axis reactivity and early life stress*. Poster presented at the annual meeting of the Society of Biological Psychiatry, San Francisco, CA.
15. Mackrell, S.V.M., Sheikh, H.I., Kotelnikova, Y., Jordan, P.L., Singh, S.M., & **Hayden, E.P.** (2013, April). *Child temperament and parental history of internalizing disorders: Associations with HPA axis reactivity in middle childhood*. Poster presented at the biennial meeting of the Society for Research in Child Development, Seattle, WA.
16. Kryski, K.R., Smith, H.J., Sheikh, H.I., Singh, S.M., & **Hayden, E.P.** (2013, April). *Child oxytocin receptor (OXTR) genotype and observed parenting behavior: Mediation by negative child behavior*. Poster presented at the biennial meeting of the Society for Research in Child Development, Seattle, WA.

17. Kotelnikova, Y., Olino, T.M., Kryski, K.R., Smith, H.J., **Hayden, E.P.**, & Klein, D.N. (2013, April). *Revising the Children's Behavior Questionnaire (CBQ): Item-response and factor analyses*. Poster presented at the biennial meeting of the Society for Research in Child Development, Seattle, WA.
18. **Hayden, E.P.**, Kryski, K.R., Smith, H.J., Sheikh, H.I., & Singh, S.M. (2012, October). *Biological and contextual risks in early-emerging depression vulnerability*. Talk presented at the annual meeting of the Society for Research in Psychopathology, Ann Arbor, MI.
19. Kryski, K.R., Smith, H.J., Sheikh, H.I., Singh, S.M., & **Hayden, E.P.** (2012, October). *Life stress and parenting: Associations with HPA axis reactivity in early childhood*. Poster presented at the annual meeting of the Society for Research in Psychopathology, Ann Arbor, MI.
20. Kotelnikova, Y., Mackrell, S.V.M., Jordan, P.L., & **Hayden, E.P.** (2012, October). *Effortful control and cognitive vulnerability to depression in middle childhood: A multimethod, longitudinal study*. Poster presented at the annual meeting of the Society for Research in Psychopathology, Ann Arbor, MI.
21. Mackrell, S.V.M., Sheikh, H.I., Singh, S.M., Kryski, K.R., & **Hayden, E.P.** (2012, October). *Cognitive vulnerability and stressful life events predicting HPA axis reactivity in middle childhood*. Poster presented at the annual meeting of the Society for Research in Psychopathology, Ann Arbor, MI.
22. **Hayden, E.P.** (2012, May). Genetic and contextual interplay in emerging child depression risk. In H. Berenbaum, (Chair), *Gene-environment interactions*. Featured, invited symposium conducted at the annual meeting of the Association for Psychological Science, Chicago, IL.
23. Sheikh, H.I., Kryski, K.R., Smith, H.J., **Hayden, E.P.**, & Singh, S.M. (2012, May). *Genetic variants of the corticotropin-releasing hormone system related genes are associated with HPA axis reactivity in early-childhood*. Talk presented at the 67th annual meeting of the Society of Biological Psychiatry, Philadelphia, PA.
24. **Hayden, E.P.** (2012, March). Biological and contextual interplay in the developmental psychopathology of depression. *Psychology distinguished lecturer series*. Colloquium given to the Department of Psychology, Queen's University, Kingston, ON.
25. Kryski, K.R., Smith, H.J., Sheikh, H.I., Singh, S.M., & **Hayden, E.P.** (2012, March). *Maternal depression and parenting: associations with HPA axis reactivity in early childhood*. Poster presented at the annual meeting of the American Psychopathological Association, New York, NY.

26. Sheikh, H.I., Kryski, K.R., Smith, H.J., **Hayden, E.P.**, & Singh, S.M. (2012, March). *Genetic variants of the corticotropin-releasing hormone system related genes are associated with HPA axis reactivity in early-childhood*. Poster presented at the annual meeting of the American Psychopathological Association, New York, NY.
27. Sheikh, H.I., Kryski, K.R., Smith, H.J., **Hayden, E.P.**, & Singh, S.M. (2011, October). *An investigation of neurogenetic correlates of early-age physiological stress response and its link to early emerging psychopathological risk: A prospective study*. Poster presented at the 12th International Congress of Human Genetics, Montreal, QC.
28. Kryski, K.R., Dougherty, L.R., Sheikh, H.I., Dyson, M.W., Olino, T.M., Laptok, R.S., **Hayden, E.P.**, Singh, S.M., & Klein, D.N. (2011, September). DRD4 genotype, child effortful control, and parenting style: Associations with HPA axis reactivity in early childhood. In E. Fox, (Chair), *Attention control and anxiety: Integrating electrophysiological, cognitive, and genetic approaches*. Symposium conducted at the annual meeting of the Society for Psychophysiological Research, Boston, MA.
29. Hanna, B., Sheikh, H.I., Laptok, R.S., Kim, J., **Hayden, E.P.**, Singh, S.M., & Klein, D.N. (2011, September). *Associations between DAT1, parent-child interactions, and child negative emotionality*. Poster presented at the 25th annual meeting of the Society for Research in Psychopathology, Boston, MA.
30. Sheikh, H.I., **Hayden, E.P.**, Dougherty, L.R., Laptok, R.S., Olino, T.M., Klein, D.N., & Singh, S.M. (2011, June). *Associations between COMT gene functional polymorphism and early-childhood internalizing symptoms: Evidence for mediation by child temperament*. Poster presented at the 41st annual meeting of the Behavior Genetics Association, Newport, RI.
31. Kotelnikova, Y., Veselka, L., Aitken Schermer, J., **Hayden, E.P.**, & Vernon, P.A. (2011, June). *Non-adaptive personality traits and the Dark Triad: An investigation into the relationship between the two domains*. Poster presented at the 72nd annual convention of the Canadian Psychological Association, Toronto, ON.
32. Kotelnikova, Y., Mackrell, S.V.M., Veselka, L., Aitken Schermer, J., **Hayden, E.P.**, & Vernon, P.A. (2011, June). *Non-adaptive personality traits and the Dark Triad: A behaviour genetic investigation into the relationship between the two domains*. Poster presented at the 41st annual meeting of the Behaviour Genetics Association, Newport, RI.

33. Kotelnikova, Y., Mackrell, S.V.M., Jordan, P.L., & **Hayden, E.P.** (2011, May). *Temperament traits as predictors of change in internalizing problems in middle childhood*. Poster presented at the annual convention of the Association for Psychological Science. Washington, DC.
34. Quinn, M., Tolep, M.R., Smith, V., Condit, C., **Hayden, E.P.**, & Dougherty, L.R. (2011, May). *Negative cognitive styles and cortisol reactivity in preschoolers: Investigating mechanisms of risk for depression*. Poster presented at the annual convention of the Association for Psychological Science. Washington, DC.
35. Kryski, K.R., Sheikh, H.I., Smith, H.J., Singh, S.M., & **Hayden, E.P.** (2011, April). *Child BDNF genotype and parenting style: Associations with HPA axis reactivity in early childhood*. Poster presented at the annual meeting of the Society for Research on Child Development, Montreal, QC.
36. Smith, H.J., Dyson, M.W., Olino, T.M., Laptook, R.S., Singh, S.M., **Hayden, E.P.**, & Klein, D.N. (2011, April). *Genetic and contextual determinants of early-emerging effortful control*. Poster presented at the annual meeting of the Society for Research on Child Development, Montreal, QC.
37. Mackrell, S.V.M., Jordan, P.L., Sheikh, H.I., Singh, S.M., & **Hayden, E.P.** (2011, April). *Longitudinal associations between temperament, social adjustment and internalizing disorders risk in middle childhood*. Poster presented at the annual meeting of the Society for Research on Child Development, Montreal, QC.
38. **Hayden, E.P.**, Sheikh, H.I., Katsiroumbas, P., Jordan, P.L., Singh, S.M., Olino, T.M., & Klein, D.N. (2010, November). Early-emerging depressogenic information processing: Stability across time and associations with childhood individual differences and early contextual factors. In J.W. Pettit, D.M. Bagner, (Chairs), *The impact of parental depression on child behavior: Timing effects, mechanisms, and moderators of risk*. Symposium conducted at the annual meeting of the Association for Cognitive and Behavior Therapies, San Francisco, CA.
39. Sheikh, H.I., Dougherty, L.R., **Hayden, E.P.**, Klein, D.N., & Singh, S.M. (2010, June). *Glucagon-like peptide-1 receptor gene polymorphism (Leu260Phe) is associated with morning cortisol in preschoolers*. Talk given at the annual meeting of the Genetics Society of Canada, Hamilton, ON.
40. **Hayden, E.P.** (2010, May). Chair, *Pathways and Process in Developmental Psychopathology: Perspectives from Early Career Investigators*. Symposium conducted at the annual meeting of the Association for Psychological Science, Boston, MA.

41. Kryski, K.R., Smith, H.J., Sheikh, H.I., **Hayden, E.P.**, & Singh, S.M. (2010, May). *HPA axis reactivity patterns and internalizing and externalizing symptoms in early childhood*. Poster presented at the annual meeting of the Association for Psychological Science, Boston, MA.
42. **Hayden, E.P.** (2009, December). Developmental psychopathology of depression: Emotional styles, pathways, and genetic bases. *2009-2010 colloquium series*. Invited talk given to the Department of Psychology at the University of Kansas, Lawrence, KY.
43. **Hayden, E.P.** (2009, November). Genetic and contextual interplay in early-emerging pathways to depression. In J.W. Pettit, S. Goodman, (Chairs), *Contextual vulnerabilities to depression: Developmental perspectives from childhood through emerging adulthood*. Symposium conducted at the annual meeting of the Association for Cognitive and Behavior Therapies, New York, NY.
44. **Hayden, E.P.** (2009, September). Developmental psychopathology of depression. *2009-2010 colloquium series*. Invited talk given to the Department of Psychology at the University of Guelph, Guelph, ON.
45. Jordan, P.L., Schalet, B.D., Durbin, C.E., & **Hayden, E.P.** (2008, September). *Concurrent and longitudinal relations between personality and mood and anxiety: A multi-method approach*. Poster presented at the annual meeting of the Society for Research in Psychopathology, Pittsburgh, PA.
46. Schalet, B.D., Jordan, P.L., Durbin, C.E., & **Hayden, E.P.** (2008, September) *Depression is associated with discrepancies between self- and observer-reports of personality traits*. Poster presented at the annual meeting of the Society for Research in Psychopathology, Pittsburgh, PA.
47. Schalet, B.D., Durbin, C.E., **Hayden, E.P.**, Mendelsohn, K.A., & Jordan, P.L. (2007, October). *Self- and observer-reports of personality: Associations with internalizing psychopathology*. Poster presented at the annual meeting of the Society for Research in Psychopathology, Iowa City, IA.
48. **Hayden, E.P.**, Dougherty, L.R., Olino, T.M., Durbin, C.E., Dyson, M., Sheikh, H.I., Singh, S.M., & Klein, D.N. (2007, October). *Gene-environment interplay in child temperament and the early home environment*. Poster presented at the annual meeting of the Society for Research in Psychopathology, Iowa City, IA.
49. Jordan, P.L., **Hayden, E.P.**, & Dozois, D.J.A. (2007, October). *Individual differences in information processing in childhood: Coherence among measures and relations to child temperament*. Poster presented at the annual meeting of the Society for Research in Psychopathology, Iowa City, IA.

50. **Hayden, E.P.**, Shankman, S.A., Olino, T.M., Tenke, C.E., & Bruder, G.E. (2007, July). *Cognitive and temperamental vulnerability to depression: Longitudinal associations with regional cortical activity*. Poster presented at the annual meeting of the World Congress on Cognitive and Behavioral Therapy, Barcelona, Spain.
51. Podnar, D., **Hayden, E.**, & Martin, R. (2007, June). *Humour Styles Questionnaire, personality and temperament*. Poster presented at the annual conference for the International Society for Humor Studies, Newport, RI.
52. **Hayden, E.P.** (2006, May). Temperamental origins of cognitive vulnerability to depression. In E. Durbin, (Chair), *Developmental psychopathology of internalizing disorders*. Featured, invited symposium conducted at the annual meeting of the Midwestern Psychological Association, Chicago, IL.
53. **Hayden, E.P.**, Maloney, B., Dougherty, L.R., Durbin, C.E., Olino, T.M., Lahiri, D., Nurnberger, J.I. & Klein, D.N. (2005, October). *Associations between polymorphisms of the promoter region in the serotonin transporter gene and child temperament*. Poster presented at the 13th annual meeting of the World Congress on Psychiatric Genetics, Boston, MA.
54. **Hayden, E.P.**, Dougherty, L.R., Maloney, B., Durbin, C.E., Olino, T.M., Lahiri, D., Nurnberger, J.I. & Klein, D.N. (2005, October). *Associations between a polymorphism in the serotonin transporter gene and multiple measures of child temperament*. Poster presented at the annual meeting of the Society for Research in Psychopathology, Miami, FL.
55. **Hayden, E.P.** (2005, June). Temperament and risk for depressive disorders. Invited colloquium given at Indiana University-Bloomington, Bloomington, IN.
56. Laptook, R.S., Olino, T.M., Dougherty, L.R., Klein, D.N., Buckley, M.E., Durbin, C.E., & **Hayden, E.P.** (2005, April). *Validation of a laboratory assessment of temperament and behavior in preschool-age children*. Poster presented at the biennial meeting of the Society for Research in Child Development, Atlanta, GA.
57. Olino, T.M., Klein, D.N., Durbin, C.E., & **Hayden, E.P.** (2005, April). *Structure of positive affect in preschool aged children*. Poster presented at the biennial meeting of the Society for Research in Child Development, Atlanta, GA.

58. **Hayden, E.P.**, Hetrick, W.P., O'Donnell, B.F., Shekhar, A., Nurnberger, J.I., Vohs, J., & Bismark, A. (2003, October). *An examination of the convergent validity of questionnaire measures, behavioral tasks, and EEG indices of the behavioral activation system in a sample of patients with bipolar disorder*. Poster presented at the 18th annual meeting of the Society for Research in Psychopathology, Toronto, ON.
59. Olino, T.M., Durbin, C.E., **Hayden, E.P.**, Wang, Q., & Klein, D.N. (2003, April). *Emotion recognition and affect in children*. Poster presented at the biennial meeting of the Society for Research in Child Development, Tampa, FL.
60. Shankman, S.A., Tenke, C.E., Bruder, G.E., Durbin, C.E., **Hayden, E.P.**, Buckley, M.E., & Klein, D.N. (2002, September). *The relationship between EEG asymmetry and positive emotionality in young children*. Poster presented at the 17th annual meeting of the Society for Research in Psychopathology, San Francisco, CA.
61. **Hayden, E.P.**, Durbin, C.E., Buckley, M.E., & Klein, D.N. (2000, June). *Convergent validity between parent report and laboratory measures of child temperament*. Poster presented at the 12th annual meeting of the American Psychological Society, Miami Beach, FL.
62. Buckley, M.E., Klein, D.N., Durbin, C.E., **Hayden, E.P.**, & Moerk, K.C. (2000, June). *Development and validation of a Q-sort procedure to assess personality and adjustment in preschoolers*. Poster presented at the 12th annual meeting of the American Psychological Society, Miami Beach, FL.

Graduate Thesis Supervision

Patricia Jordan	Ph.D. Co-supervisor
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