

# Hannah R. Snyder

## Curriculum Vitae

Assistant Professor  
Brandeis University  
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### POSITIONS HELD

<b>Assistant Professor</b> <b>Brandeis University, Psychology</b>	<b>2016-present</b>
<b>NIH Postdoctoral Fellow</b> <b>University of Denver</b> (Benjamin Hankin)	<b>2012-2016</b>

### EDUCATION

<b>Ph.D., University of Colorado Boulder, Cognitive Neuroscience</b>	<b>2012</b>
Dissertation: "Choosing our words: Neural mechanisms supporting cognitive control during language processing." (Yuko Munakata & Marie Banich)	
<b>M. A., University of Colorado Boulder, Cognitive Psychology</b>	<b>2008</b>
<b>B.A., Oberlin College, Psychology and Neuroscience</b>	<b>2004</b>

### RESEARCH INTERESTS

Executive function impairments associated with depression and anxiety.  
Risk mechanisms for the development of psychopathology.  
Development of executive function in adolescents and emerging adults.  
Neural mechanisms supporting executive function.

### FUNDING

#### CURRENT

<b>R01 MH105501</b> Prefrontal Mechanisms of Selection: Disrupted in Internalizing Psychopathology? Co-I (MPIs: Benjamin Hankin & Marie Banich)	<b>2015-2019</b>
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<b>Provost Innovative Inquiry Award</b>	<b>2018-2019</b>
Promoting successful transitions to college for students at high risk for anxiety and depression PI (with Joy von Steiger)	
<b>COMPLETED</b>	
<b>R21 MH102210</b>	<b>2014-2016</b>
Links Among Adolescent Executive Function, Effortful Control and Psychopathology Co-I (PI: Benjamin Hankin)	
<b>F32 MH098481</b>	<b>2013-2015</b>
Links Between Depression and Executive Function Impairments in Adolescents	
<b>University of Colorado Denver Developmental Psychobiology Endowment Fund, Pilot Grant</b>	<b>2013-2015</b>
Links Between Depression and Executive Function Impairments in Adolescents	
<b>F31 MH087073</b>	<b>2009-2012</b>
Prefrontal Mechanisms for Retrieval and Selection in Cognitive Control	

## TEACHING

Developmental Psychology, Brandeis	2017-present
Developmental Cognitive Neuroscience: Infancy to Adolescence, Brandeis	2017-present
Developmental Neuropsychology, University of Denver	2016

## PUBLICATIONS

### Journal Articles

\* = Brandeis student

Banich, M. T., Smolker, H. R., **Snyder, H. R.**, Lewis-Peacock, J., Godinez, D., Wager, T. D., & Hankin, B. L. (in press). Turning down the heat moment by moment: Multiple brain systems and individual differences predict emotional distraction during mid-

- adolescence. *Neuropsychologia*.
- Mullin, B.C., Perks, E.L., Haraden, D.A., **Snyder, H.R.** & Hankin, B.L. (in press). Subjective executive function weaknesses are linked to elevated internalizing symptoms among community adolescents. *Assessment*.
- Fassett-Carman\*, A., Hankin, B. L., & **Snyder, H. R.** (2018). Appraisals of dependent stressor controllability and severity are associated with depression and anxiety symptoms in youth. *Anxiety, Stress & Coping*, 32, 32-49.
- Schweizer, T. H., **Snyder, H. R.**, & Hankin, B. L. (2018). A reformulated architecture of cognitive risks for psychopathology: Evidence for common and specific factors and links to internalizing outcomes in adolescence. *Assessment*. Online ahead of print. <https://doi.org/10.1177/1073191118804878>
- Hemlat, E., **Snyder, H. R.**, & Hankin, B. L. (2018). Pubertal timing as a transdiagnostic risk factor for psychopathology in youth. *Clinical Psychological Science*. Online ahead of print. <https://doi.org/10.1177/2167702618810518>
- Vargas, T., **Snyder, H. R.**, Newberry, R., Banich, M. T., Mittal, V. M. (2018). Altered selection during language processing in individuals at high risk for psychosis. *Schizophrenia Research*, 202, 303-309.
- Kaiser, R. H., **Snyder, H. R.**, Goer, F., Clegg, R., & Pizagalli, D. A. (2018). Attention bias in rumination and depression: Cognitive mechanisms and brain networks. *Clinical Psychological Science*, 6, 765-782.
- Snyder, H. R.**, Hankin, B. L., Sandman, C. A., Head, K., & Davis, E. P. (2017). Distinct patterns of reduced prefrontal and limbic grey matter volume in childhood general and internalizing psychopathology. *Clinical Psychological Science*, 5, 1001-1013.
- Snyder, H. R.**, Young, J. F., & Hankin, B. L. (2017). Chronic stress exposure and generation are related to the p factor and externalizing specific psychopathology in youth. *Journal of Clinical Child & Adolescent Psychology*, 21, 1-10.
- Hankin, B. L., Davis, E. P., **Snyder, H. R.**, Young, J. F., Glynn L. M., Sandman, C. A. (2017). Temperament factors and dimensional, latent bifactor models of child psychopathology: Transdiagnostic and and specific associations in two youth samples. *Psychiatry Research*, 252, 139-146.
- Snyder, H. R.**, Young, J. F., & Hankin, B. L. (2017). Strong homotypic continuity in common psychopathology, internalizing and externalizing specific factors over time in adolescents. *Clinical Psychological Science*, 5, 98-110.
- Accompanying commentary: **Snyder, H. R.**, & Hankin, B. L. (2017). All models are wrong, but the p factor model is useful: Reply to Widiger and Oltmanns (2017) and Bonifay, Lane, and Reise (2017). *Clinical Psychological Science*, 5, 187-189.
- Snyder, H. R.**, & Hankin, B. L. (2016). Spiraling out of control: Stress generation and

- subsequent rumination mediate the link between poor cognitive control and internalizing psychopathology. *Clinical Psychological Science*, 4, 1047-1064.
- Hankin, B. L., **Snyder, H. R.**, Gulley, L. G., Schweizer, T. H., Bijttebier, P., Nelis, S., Toh, G., & Vasey, M. W. (2016). Understanding comorbidity among internalizing problems: Integrating hierarchical structural models of psychopathology and risk mechanisms. *Developmental Psychopathology*, 28, 987-1012.
- Snyder, H. R.**, Gulley, L. D., Bijttebier, P., Hatman, C. A., Oldehinkel, A. J., Mezulis, A., Young, J. F., & Hankin, B. L. (2015). Adolescent emotionality and effortful control: Core latent constructs and links to psychopathology and functioning. *Journal of Personality and Social Psychology: Personality Processes and Individual Differences*, 109, 1132-1149.
- Snyder, H. R.**, Miyake, A., & Hankin, B. L. (2015). Advancing understanding of executive function impairments and psychopathology: Bridging the gap between clinical and cognitive approaches. *Frontiers in Psychology*, 6:328.
- Snyder, H. R.**, Kaiser, R. H., Warren, S. L., & Heller, W. (2015). Obsessive compulsive disorder is associated with broad impairments in executive function: A meta-analysis. *Clinical Psychological Science*, 3, 301-330.
- Kole, J. A. **Snyder, H. R.**, Brojde, C. L., & Friend, A. (2015). What's the problem? Familiarity, working memory, and transfer in a problem solving task. *American Journal of Psychology*, 128, 147-157.
- Snyder, H. R.**, Banich, M. T., & Munakata, Y. (2014). All competition is not alike: Neural mechanisms for resolving underdetermined and prepotent competition. *Journal of Cognitive Neuroscience*, 26, 2608-2623.
- Snyder, H. R.**, Kaiser, R. H., Whisman, M. A., Turner, A. E. J., Guild, R. M., & Munakata, Y. (2014). Opposite effects of anxiety and depressive symptoms on executive function: The case of selecting among competing options. *Cognition & Emotion*, 28, 893-902.
- De La Vega, A., Brown, M., **Snyder, H. R.**, Sigal, D., Munakata, Y. & Banich, M. T. (2014). Individual differences in the balance of GABA to glutamate in prefrontal cortex predicts the ability to select among competing options. *Journal of Cognitive Neuroscience*, 26, 2490-2502.
- Barker, J. E., Semenov, A. D., Michaelson, L., Proven, L. S., **Snyder, H. R.**, & Munakata, Y. (2014). Less structured time in children's daily lives predicts self-directed executive functioning. *Frontiers in Psychology*, 5: 593.
- Snyder, H. R.**, & Munakata, Y. (2013). So many options, so little control: Abstract representations can reduce selection demands to increase children's self-directed flexibility. *Journal of Experimental Child Psychology*, 116, 659-673.
- Snyder, H. R.** (2013). Major depressive disorder is associated with broad impairments on neuropsychological measures of executive function: A meta-analysis and review.

*Psychological Bulletin*, 139, 81-132.

Henderson Kaiser, R., **Snyder, H. R.**, Gupta, T., & Banich, M. T. (2012). When does stress help or harm? The effects of stress controllability and subjective stress response on Stroop performance. *Frontiers in Psychology*, 3:179.

Munakata, Y., **Snyder, H. R.** & Chatham, C. H. (2012). Developing cognitive control: Three key transitions. *Current Directions in Psychological Science*, 21, 71-77.

**Snyder, H. R.**, Banich, M. T., & Munakata, Y. (2011). Choosing our words: Selection and retrieval processes recruit shared neural substrates in left ventrolateral prefrontal cortex. *Journal of Cognitive Neuroscience*, 23, 3470-3482.

**Snyder, H. R.**, Hutchison, N., Nyhus, E., Curran, T., Banich, M. T., O'Reilly, R. C., & Munakata, Y. (2010). Neural inhibition enables selection during language processing. *Proceedings of the National Academy of Sciences of the United States of America*, 107, 16483-16488.

**Snyder, H. R.**, & Munakata, Y. (2010). Becoming self-directed: Abstract representations support endogenous flexibility in children. *Cognition*, 116, 155-302.

**Snyder, H. R.**, & Munakata, Y. (2008). So many options, so little time: The roles of association and competition in underdetermined responding. *Psychonomic Bulletin & Review*, 15, 1083-1088.

**Snyder, H. R.**, Feigenson, K., & Thompson-Schill, S. L. (2007). Prefrontal cortical response to conflict during semantic and phonological tasks. *Journal of Cognitive Neuroscience*, 19, 761-775.

Derryberry, W. P., **Snyder, H.**, Wilson, T., & Barger, B. (2006). Moral judgment differences in Education and Liberal Arts majors: Cause for concern? *Journal of College & Character*, 7 (4).

Derryberry, W. P., Wilson, T., **Snyder, H.**, Norman, A., & Barger, B. (2005). Moral judgment developmental differences between gifted youth and college students. *Journal of Secondary Gifted Education*, 17, 6-19.

## Book Chapters

**Snyder, H. R.**, & Hankin, B. L. (2019). Cognitive function in mood and anxiety disorders. In R. A. Stern & M. L. Alosco (Eds.) *Oxford Handbook of Adult Cognitive Disorders*. Oxford: Oxford University Press

**Snyder, H. R.**, & Hankin, B. L. (2018). Working memory and youth depression. In T. P. Alloway (Ed.) *Working Memory and Clinical Developmental Disorders*. Abingdon, UK: Routledge, pp. 196-214

Hankin, B. L., **Snyder, H. R.**, & Gulley, L. D. (2016). Cognitive risks in developmental

psychopathology. In D. Cicchetti (Ed.) *Developmental Psychopathology, 3rd Edition*. Hoboken, N. J.: Wiley, pp. 312-385.

Munakata, Y., **Snyder, H. R.**, & Chatham, C. H. (2013). Developing cognitive control: The costs and benefits of active, abstract representations. In P. D. Zelazo & M. D. Sera (Eds.), *Developing Cognitive Control Processes: Mechanisms, Implications, and Interventions*. Hoboken, N. J.: Wiley, pp. 55-90.

Munakata, Y., Chatham, C.H., & **Snyder, H.R.** (2013). Mechanistic accounts of frontal lobe development. In D.T. Stuss & R.T. Knight (Eds.), *Principles of Frontal Lobe Function, 2nd Edition*. Oxford: Oxford University Press, pp. 185-206.

### Journal Articles Under Review

**Snyder, H. R.**, Friedman, N. P., & Hankin, B. L. (under review). Transdiagnostic mechanisms of psychopathology in youth: Executive functions, dependent stress and rumination.

Schweizer, T. H., **Snyder, H. R.**, Young, J. F., & Hankin, B. L. (under review). Clarifying transdiagnostic risks for psychopathology: Examining links between common and specific dimensions of cognitive vulnerabilities and psychopathology in youth

### HONORS AND AWARDS

NIMH training grant recipient (T32-MH15442), University of Colorado Denver	2012-2013
Dosier Award for most outstanding scholarly record, University of Colorado Boulder, Psychology & Neuroscience	2012
Abstract Merit Award, Society for the Neurobiology of Language	2011
Sheryl Young Memorial Scholarship, University of Colorado Boulder	2009-2010
National Science Foundation Honorable Mention	2008

### SERVICE

#### To Department & University

PhD admissions committee	2016-17 ,2017-18
Research support for Brandeis Counseling Center:	2016-present

Implemented large-scale project to bring BCC into alignment with best clinical practices by collecting questionnaire data on all students receiving services, track patient outcomes over time, and help BCC clinicians use the data to improve clinical care.

## To Profession

### Editorial Boards:

*Journal of Experimental Psychology: Human Perception and Performance*

*Journal of Genetic Psychology: Research and Theory on Human Development*

**Ad hoc reviewer for journals including:** *Cerebral Cortex, Clinical Psychological Science, Cognitive Affective and Behavioral Neuroscience, Cognition, Cognitive Neuropsychiatry, Depression & Anxiety, Developmental Cognitive Neuroscience, Journal of Adolescence, Journal of Affective Disorders, Journal of the American Medical Association, Journal of Cognitive Neuroscience, Journal of Experimental Psychology: General, Journal of Experimental Psychology: Learning, Memory & Cognition, Journal of Psychiatric Research, Neuropsychologia, Neuropsychology, Neuropsychology Review, Psychiatry Research, Psychological Bulletin*

## TALKS

Snyder, H. R. (2019). Poor working memory for task goals as a transdiagnostic risk for psychopathology. Talk to be given at the Association for Psychological Science annual convention (DC, May)

Snyder, H. R., Friedman, N. P. & Hankin, B. L. (2018). Poor EF as a transdiagnostic risk for psychopathology in emerging adulthood: Mediation by stress and rumination. Talk to be given at the Association for Behavioral and Cognitive Therapies annual convention (DC, November).

Snyder, H. R., Friedman, N. P. & Hankin, B. L. (2018). Links between transdiagnostic psychopathology and executive dysfunction in adolescence and emerging adulthood. Talk given at the Association for Psychological Science annual convention (San Francisco, May; Symposium Chair)

Snyder, H.R. & Hankin, B. L. (2017). Spiraling Out of Control: Stress Generation and Subsequent Rumination Mediate the Link between Poorer Cognitive Control and Internalizing Psychopathology. Talk given at the Anxiety and Depression Association

of American annual conference (San Francisco, April)

Snyder, H. R. (2013). Too many options: Effects of anxiety on selection among competing responses. Talk given at the 2nd International Meeting of the Scientific Research Network on Temperamental and Cognitive Vulnerability to the Dysregulation of Affect and Behavior (Leuven, Belgium, December).

Snyder, H. R., Henderson, R. K., Whisman, M. A., & Munakata, Y. (2011). The role of competitive neural inhibition in language production: Insights from the effects of trait anxiety on selecting among competing words. Talk given at the Neurobiology of Language Conference (Annapolis, November)