
EDUCATION

- 2018 **Northwestern University, Chicago, IL**
Brain, Behavior and Cognition, Psychology, PhD
Dissertation: “Structural and functional network architecture of bipolar spectrum disorder: Graph theoretical insights”
- 2015 Masters of Science: “Nucleus accumbens connectivity relates to trait risk for hypomania: A structural and functional analyses of hypomanic risk factors”
- 2009 **Vanderbilt University, Nashville, TN**
Bachelor of Arts in Psychology and Philosophy, Cum Laude
Research Concentration in Cognitive Neuroscience

Awards

- 2017 National Institute of Health, Neuroscience of Human Cognition Fellow (T32)
Title: ‘Reward sensitivity neural circuitry along the bipolar spectrum: A connectivity perspective’
Award: Stipend support and research support.
- 2016 Society of Biological Psychiatry, Pre-doctoral Student Scholars Award
Award: Travel award, mentoring by senior SOBP members, and 3 years of meeting registration.
- 2015 National Institute of Health, Neurobiology of Information Storage Program Fellow (T32)
Title: ‘Reward based learning on multiple levels of analyses’
Award: Stipend support and annual research support.
- 2013 National Science Foundation, Graduate Research Fellowship Program Honorable Mention
Title: ‘Reward at Multiple Levels: Mapping the Relationship Between Structure and Function’
Award: (For meritorious applicants who do not receive Fellowship awards) Access to cyberinfrastructure resources through the XSEDE.
- 2011 National Institute of Health, Technical Intramural Research Training Award (IRTA)
Award: Two-year post-baccalaureate full-time training at NIH with access to graduate course work, research mentoring, and scientific seminars.

Publications

Peer Reviewed Articles

- Nusslock, R., & Young, C.B., & **Damme, K. S.F.** (2014). [Elevated reward-related neural activation as a unique biological marker of bipolar disorder: Assessment and treatment implications](#), *Behavioral Research and Therapy*, 64, 74-87.
- Damme, K.S.F.**, Young, C.B., & Nusslock, R. (2017). [Elevated nucleus accumbens structural connectivity associated with proneness to hypomanic symptoms](#), *Social Cognitive and Affective Neuroscience*, 12(7), 928-36.
- Damme, K.S.F.**, Gupta, T., Nusslock, R., Bernard, J., Orr, J. & Mittal, V. (2018) [Cortical Morphometry in the Psychosis Risk Period: A comprehensive perspective of surface features](#), *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*.
- Vargas, T., **Damme, K.S.F.**, & Mittal, V. (2019) [Bullying Victimization in Typically Developing and Clinical High Risk \(CHR\) Adolescents: A Multimodal Imaging Study](#). *Schizophrenia Research*.
- Damme, K.S.F.**, Kelly, N., Glazer, J., Quinn, M., Chat, I., Young, K., Nusslock, R., Zinbarg, R., Bookheimer, S., & Craske, M. (in press) [Emotional Content Impacts How Executive Function Ability Relates to Willingness to Wait and Work for Reward](#). *Cognitive Affective Behavioral Neuroscience (CABN)*.

Damme, K.S.F., Pelletier-Baldelli, A., Cowan, H.R., Orr, J.O., & Mittal, V.A. (in press) [Distinct and Opposite Profiles of Connectivity During Self-Reference Task and Rest in Youth at Clinical High-Risk for Psychosis](#). *Human Brain Mapping*.

Vargas, T., **Damme, K.S.F.**, Mittal, V.A., Kelley, N. J., & Maloney, J. (in press) [Measuring Facets of Reward Sensitivity, Inhibition, and Impulse Control in Individuals with Problematic Internet Use](#). *Psychiatry Research*

Vargas, T., **Damme, K.S.F.**, Gupta, T., Cowan, R., Hooker, C. & Mittal, V. (in press) [Differentiating Implicit and Explicit Theory of Mind and Associated Neural Networks in Clinical High Risk \(CHR\) Youth](#). *Schizophrenia Research*.

Damme, K.S.F., Gallagher, N., Vargas, T., Osborne, K. J., Gupta, T., & Mittal, V.A. (in press) [Motor Sequence Learning and Pattern Recognition in Youth at Clinical High-Risk for Psychosis](#). *Schizophrenia Research*.

Under Review

Damme, K.S.F., Vargas, T., Calhoun, V., Turner, J., & Mittal, V. A. (under review) Global and Specific Cortical Volume Asymmetries in Individuals with Psychosis Risk Syndrome and Schizophrenia: A mixed cross-sectional and longitudinal perspective.

Osborne, K. J., **Damme, K.S.F.**, Gupta, T., Dean, D., Bernard, J., & Mittal, V.A. (under review) Timing dysfunction and cerebellar network abnormalities in youth at clinical high-risk for psychosis.

Kelly, N., Akuamoah, J., & **Damme, K.S.F.** (under review) Self-enhancement processes influence the evaluation of scientific information.

Young, K.S., Bookheimer, S. Y., Nusslock, R., Zinbarg, R. E., **Damme, K.S.F.**, Chat, I., Kelley, N. E., Perez, Chen, K., Craske, M.G. (under review) Symptom dimensions of anxiety and depression are related to dissociable disruptions to threat neurocircuitry during fear acquisition.

Echiverri-Cohen, A., Young, K., Glazer, J., Perez, M., **Damme, K. S. F.**, Chat, I., Kelley, N. J., Bookheimer, S., Nusslock, R., Zinbarg, R., Bilder, R., Craske, M. (under review) Response inhibition, extinction and extinction recall share an inhibitory regulation neural network.

Bart, C. P., Nusslock, R., Ng, T. H., Titrone, M. K., Carroll, A. L., **Damme, K. S. F.**, Young, C. B., Armstrong, C., Chien, J., & Alloy, L. B. (under review) Decreased Reward-Related Brain Function Predicts Substance Use Frequency, Problems, and Diagnoses.

Langenecker, S. A., Kling, L. R., Crane, N. A., Gorka, S. M., Nusslock, R., **Damme, K. S. F.**, Weafer, J., deWit, H., & Phan, K. L. (in prep) Anticipation of Reward in Amygdala, Insula, Caudate are Predictors of Pleasure Sensitivity to d-Amphetamine Administration.

In Preparation

Damme, K.S.F., Young, C. B., Kelly, N., Carroll, A., Nusslock, R., Black, C., Ng, T., Chein, J., Hamlatt, E., O'Garre, J., & Alloy, L. (in prep) Bipolar Spectrum Disorders Show Region and Sex Specific Increases in Frontal and Striatal Gray Matter Volume.

Damme, K.S.F., Alloy, L. B., Black, C., Kelly, N., Ng, T., Titrone, M., Chein, J., Mohammad, F., & Nusslock, R., (in prep). Disrupted Structural and Functional Emotion Regulation Networks Relate to Risk for Bipolar Spectrum Disorders.

Damme, K.S.F., Young, C. B., Kelly, N. J., Nusslock, R., Chein, J., Ng, T., Titrone, M., Black, C., & Alloy, L. (under review) Amygdala Subnuclei Volume Abnormalities across the Bipolar Spectrum: Insight from Diffusion-based Subsegmentation and a High-Risk Design.

Black, C., **Damme, K.S.F.**, Nusslock, R., Chein, J., Hamlatt, E., O'Garre, J., & Alloy, L. (in prep) Resting State Functional Brain Networks in Bipolar Spectrum Disorder: A Graph Theoretical Investigation.

Carroll, A., **Damme, K. S. F.**, Nusslock, R., Bart, C.P., Ng, T., Titone, M.K., & Alloy, L. B. (in prep) Emotion-Based Impulsivity and Prefrontal Cortical Volume Predict Risk for Bipolar Spectrum Disorders.

Armstrong, C., **Damme, K.S.F.**, Young, C. B., Nusslock, R., Ng, T., Chein, J., Hamlatt, E., O'Garre, J., & Alloy, L (in prep) A Comprehensive Examination of White Matter Tract Diffusivity in a Bipolar Behavioral High-Risk Design.

Ristanovic, I., **Damme, K.S.F.**, & Mittal, V.A. (in prep) Sex-Specific Hormonal Effects on White Matter Integrity in the Clinical High Risk for Psychosis.

Avery, J. R., Engelhard, M., **Damme, K.S.F.**, & Mittal, V.A. (in prep) Increased Sleep Regularity Related to Reduced Path Length in Resting-State Networks.

Chapter

Nusslock, R., & Young, C.B.*, Pornpattananangkul, N.*, **Damme, K.*** (2015). [Neurophysiological and neuroimaging approaches to clinical psychological research](#). In R. Cautin & S. Lilienfeld (Eds.), *Encyclopedia of Clinical Psychology*. New Jersey: Wiley-Blackwell.

Popular Media/Press

Witkowski, S. (Producer) (2017) PhDrinking: Risky Business of Psychopathology with Katherine Damme [audio podcast]. <https://soundcloud.com/phdrinking/the-risky-business-of-psychopathology>

Gallagher, N. (2017) *Invisible Lines: An Interview with Katherine Damme and Kathleen Reardon*. <http://www.sixbyeightpress.com/interview-katherine-damme-kathleen-reardon/>

Serving as Reviewer for Journals

Biological Psychiatry, Journal of Abnormal, Psychiatry Research, Developmental Psychopathology

Research Training

2018-present	Post-Doctoral Fellow , Northwestern University Adolescent Development and Preventative Treatment Lab , Dr. Vijay Mittal
2013-2018	Graduate Research Fellow , Northwestern University Affective and Clinical Neuroscience Lab , Dr. Robin Nusslock (Primary Mentor) Adolescent Development and Preventative Treatment Lab , Dr. Vijay Mittal (Secondary Mentor)
2013	EEG Research Assistant , University of Nebraska- Lincoln Developmental Brain Lab , Dr. Dennis Molfese
2011- 2013	Intramural Research Training Award (IRTA) Fellow , NIMH Clinical Brain Disorders Branch , National Institute of Mental Health, Dr. Daniel Weinberger Genes, Cognition and Psychosis Program, Section on Integrative Neuroscience, Dr. Karen Berman
2009-2011	MRI Research Assistant , Vanderbilt University Psychiatric Hospital, Vanderbilt University Medical Center, Nashville, TN Neuropsychology Clinic , Dr. Michael Tramontana Affective Neuroscience Lab , Dr. David Zald
2008	ThinkSwiss Research Fellowship , École Polytechnique Fédérale de Lausanne (EPFL)-CHUV Clinical Neuroscience and Genetics Lab , Dr. Kim Do
2007-2009	Undergraduate Directed Studies - MRI Clinical Neuroscience , Vanderbilt University, Nashville, TN Dr. Sohee Park

Mentored Undergraduate Students

Undergraduate Student Mentees

Rita Taylor (mentored 2013-16): Psychology and Cognitive Science Majors; 2016-18: Research Assistant (PI: Susan Bookheimer); Graduate student of Clinical Psychology Wash-U (PI: Deanna Barch)
Ajay Nadig (mentored 2013-17): Neuroscience Major; 2017-19: NIMH IRTA (PI: Armin Raznahan)
Laura Padilla (mentored 2015-17): Neuroscience Major; 2017-19: NIMH IRTA (PI: Peter Schmidt)
Wan Kwok (mentored 2015-17): Neuroscience Major; 2017-19: NIMH IRTA (PI: Chris Baker)
Virginia Hoch (mentored 2014-17): Psychology and Biology Major; 2017- current: Medical Student (MD/MPH; Feinberg Medical School)
Michael Weston (mentored 2015-18): Neuroscience Major; Economics Minor; Investment banking analyst with Houlihan Lokey in Minneapolis (2018)

Mentored Undergraduate Projects

‘Paths to Mania: Structural Connectivity Underlying Reward Sensitivity in Bipolar Disorder (Senior Thesis)’, Northwestern Education and Undergraduate Research on Neuroscience Program (NEURON), Wan Kwok

‘Uncinate Fasciculus as a Developmental Biomarker of Impaired Cognition and Mood’, Northwestern Education and Undergraduate Research on Neuroscience Program (NEURON), Laura Padilla

‘Using Joint-ICA to Parse Spatiotemporal Features of Reward Processing in Simultaneous EEG-fMRI’, Northwestern Education and Undergraduate Research on Neuroscience Program (NEURON), Ajay Nadig

‘Structural Connectivity Underlying Reward Sensitivity in Bipolar Disorder’, Northwestern University, Undergraduate Research Grant, Wan Kwok

‘Modeling cortical morphometry in bipolar disorder: a dynamic insight into psychopathology’, Bioscientist Research Grant, Michael Weston

Departmental Service

Graduate Teaching Fellow (2016-17): Graduate Teaching fellows work to address specific learning and teaching needs in their department and assist with the facilitation of grad and postdoc programming at Searle Center for Teaching Excellence. I attempted to bridge a training gap from guest lecturing to full course planning. I organized multi-day workshop series (no less than 2 days and no more than 4 days), to enable graduate students to have generate a smaller scale course with support and feedback of a graduate teaching fellow. The outcome for the students involved will generate documents for a teaching portfolio (workshop plans, teaching observation, and feedback), experience building course structure with feedback and support, and follow up meeting providing debriefing and future directions for teaching approaches.

Psychology Graduate Student Committee (2014-16): I served on a graduate committee tasked with generating initiatives to: build and maintain a sense of community within the department (e.g., maintaining the mentorship program, organizing social events), act as a resource for graduate students and promote information sharing (e.g., maintaining ARES, organizing professional development events), and advocate - be a voice for the graduate students and increase transparency/accessibility to faculty and TGS (e.g., getting students on search committees, organizing town hall meetings).

Graduate Leadership and Advocacy Council (2014-2016): We bring graduate students’ concerns to the attention of the deans and administrative staff of The Graduate School (TGS) on both campuses. We give graduate students opportunities to participate in decision-making processes at Northwestern. Our efforts have resulted in services and policies that improve graduate student quality of life; from ensuring a livable wage, addressing health care restrictions, and providing public transportation access (U-Pass).