

William N. Koller
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EDUCATION

- 2019 - **Yale University, Ph.D. Student in Clinical Psychology**
New Haven, Connecticut
Advisor: Tyrone D. Cannon, Ph.D.
- GRE - Verbal: 165 (96%); Quantitative: 161 (77%); Analytical Writing: 5.5 (98%)**
- 2017 **Bates College, Bachelor of Arts, Cum Laude**
Lewiston, Maine
Majors: Psychology (Biological & Health)
French and Francophone Studies
Minor: Chemistry
- GPA: 3.83; Psychology GPA: 3.95**
- 2016 **University of Melbourne, Undergraduate Coursework**
Melbourne, VIC, Australia
Semester abroad

HONORS AND AWARDS

- 2016-2017 **Bates College Student Research Fund Recipient:** Received competitive grant of \$350 for independent research
- 2014-2017 **Bates College Dean's List for Academic Excellence:** 5 semesters
- 2017 **Phi Beta Kappa**
- 2017 **Departmental Honors in Psychology**
- 2016 **University of Melbourne Honours 1:** Equivalent of Dean's List; 1 semester
- 2015 **Bates College Albion Morse Stevens Award in Foreign Language**

RESEARCH EXPERIENCE

Postgraduate Associate (August 2017 – July 2019)

Yale School of Medicine, Department of Radiology and Biomedical Imaging

Principal Investigator: Michelle Hampson, Ph.D.

- Member of small team running three clinical trials evaluating real-time fMRI neurofeedback as a treatment for OCD, PTSD, and Tourette Syndrome
- Phone-screened participants for symptoms of OCD, PTSD, and other mental disorders
- Performed structured clinical interviews (MINI, Y-BOCS, SCID-II)
- Managed participant records in REDCap database
- Negotiated contracts with third-party recruitment company; designed online recruitment and prescreening pipelines using Qualtrics, Facebook and Google advertisements
- Ran participants through MRI protocol using a Siemens Magnetom Prisma 3T

- Created and maintained study documents (protocols, consent forms, guidelines for research staff, etc.) locally and in IRB system
- Prepared manuscripts for publication by writing, editing, compiling feedback from multiple authors, and making figures
- Acquired 100+ hours of experience in fMRI data analysis, from preprocessing to group-level analyses done both manually and using shell scripting; trained colleagues in fMRI data analysis

Honors Thesis Student (Fall 2016, Winter 2017)

Bates College, Psychology Department

Thesis Advisor: Sara Masland, Ph.D.

- Designed and conducted an empirical study examining the relationship between emotion regulation and alexithymia in individuals with depressive and anxious symptoms
- Used E-Prime, EKG, and Qualtrics surveys to run 100+ students through study protocol involving behavioral (emotional Stroop task) and psychophysiological (heart rate variability) measures
- Defended thesis to panel of examiners (including faculty external to Bates), was competitively selected for Honors based on thesis and performance in the Psychology major

University of Vermont Wellness Environment Intern (Summer 2016)

University of Vermont, Burlington, VT

Principal Investigator: James J. Hudziak, M.D.

- Member of small team designing a longitudinal research project focused on technology-assisted wellness and behavior change in a residential student environment
- Conducted literature reviews, helped develop IRB research proposal
- Participated in app concept development

Research Methods Independent Research Project (Fall 2015)

Bates College, Psychology Department

Instructor: Michael Sargent, Ph.D.

- Used Qualtrics and ePrime to design and conduct a study examining the psychological correlates of racial bias

PUBLICATIONS

Sukhodolsky, D. G., Walsh, C., **Koller, W. N.**, Eilbott, J., Rance, M., Fulbright, R. K., . . . Hampson, M. (2019). Randomized, sham-controlled trial of real-time fMRI neurofeedback for tics in adolescents with Tourette Syndrome. *Biological Psychiatry*. doi:10.1016/j.biopsych.2019.07.035

Rance, M., Walsh, C., Sukhodolsky, D. G., Pittman, B., Qiu, M., Kichuk, S.A., Gruner, P., Wasylink, S., **Koller, W. N.**, Bloch, M., Scheinost, D., Pittenger, C., & Hampson, M. (2018). Time course of clinical change following neurofeedback. *NeuroImage*, 181, 807-813. doi:10.1016/j.neuroimage.2018.05.001

Brooks, H., Kichuk, S. A., Adams, T. G., **Koller, W. N.**, Eken, H. N., Rance, M., Monahan, S., Wasylink, S., Kelmendi, B., Pittenger, C., Gruner, P., & Hampson, M. (2018). Developing image sets for inducing obsessive-compulsive checking symptoms. *Psychiatry Research*, 265, 249-255. doi:10.1016/j.psychres.2018.04.035

POSTERS AND PRESENTATIONS

Koller, W.N., Hampson, M. (2019, June). *Time Course of Clinical Change Induced by Neurofeedback*. Presentation given at the 14th World Congress of Biological Psychiatry, Vancouver, BC.

Koller, W. N., Hampson, M. (2019, January). *Time Course of Clinical Change Following Neurofeedback*. Presentation given at Yale Child Study Center Research in Progress Seminar, New Haven, CT.

Gruner, P., **Koller, W. N.**, Anticivec, A., Pittenger, C. (2018, December). *Aberrant Causal Reasoning in Obsessive-Compulsive Disorder (OCD) – Preliminary Findings*. Poster presented at the 57th Annual Meeting of the American College of Neuropsychopharmacology, Hollywood, FL.

Koller, W. N., Rance, M., Eilbott, J., Gruner, P., Wasylink, S., Kichuk, S. A., Scheinost, D., Pittenger, C., & Hampson, M. (2018, September). *Resting State Connectivity Predicts Neurofeedback Response in OCD*. Poster presented at the 6th Biennial Conference on Resting State and Brain Connectivity, Montreal, QC, Canada.

Koller, W. N. & Masland, S. R. (2018, April). *Rethinking Reappraisal: Evidence for a Context-Based Model of Cognitive Reappraisal*. Poster presented at the 39th Annual Meeting and Scientific Sessions of the Society of Behavioral Medicine, New Orleans, LA. [Abstract published in *Annals of Behavioral Medicine*, 52(Suppl_1)].

Rance, M., Gruner, P., Wasylink, S., Kichuk, S. A., **Koller, W. N.**, Scheinost, D., Pittenger, C., & Hampson, M. (2017, November). *Neurofeedback of the Orbitofrontal Cortex Produces Clinical Improvement in Obsessive-Compulsive Disorder (OCD) That Grows Over Time*. Poster presented at the Real-Time Functional Imaging and Neurofeedback Conference (rtFIN), Nara, Japan.

Koller, W. N. & Masland, S. R. (2017, March). *Subclinical Depression, Anxiety, and Alexithymia: Implications for Implicit and Explicit Regulation*. Presentation given at the Mount David Summit at Bates College, Lewiston, ME.

WORK AND VOLUNTEER EXPERIENCE

French Language Interpreter (2016-2017)

Immigrant Legal Advocacy Program, Lewiston, ME

- Worked as an interpreter for a non-profit organization that provides legal aid to francophone asylum seekers from African countries

Teaching Assistant (2014-2016)

Bates College, Psychology Department; Department of French and Francophone Studies

- Tutored students in statistics and SPSS; in French writing and grammar

Individual Respite Service Provider (Summer 2015)

Counseling Service of Addison County, Middlebury, VT

- Received on-site training in respite service techniques (e.g., conflict resolution, alliance-building)
- Worked one-on-one with adolescent client, providing daily care and supervision

Waterfront Instructor and Lifeguard (2011-2015)

Girl Scouts of the Green and White Mountains, Salisbury, VT
Middlebury College Natatorium, Middlebury, VT

- Developed leadership and management skills relevant to working with children and adolescents

Volunteer Child Care Assistant (Fall 2014)

Daisy Garden Child Care Center, Lewiston, ME

- Supervised pre-school aged children in classroom setting

Residential Treatment Center Intern (Fall 2011)

L'Association du Champ de la Croix, Orbe, France

- Worked as a companion and assistant in a medical/educational residential treatment center for francophone individuals with developmental disabilities

SKILLS

Technical

- *Qualtrics (25+ hours)*
- *LabChart (25+ hours)*
 - Heart rate variability (HRV) data collection and analysis
- *SPSS (50+ hours)*
- *UNIX Operating System and Language (75+ hours)*
 - Data directory creation, management, and navigation
 - Shell scripting
- *fMRI Data Analysis (100+ hours)*
 - Proficiency and flexibility with a range of fMRI data analyses and tools
 - Designing preprocessing and data analysis pipelines
 - Writing shell scripts for batch analyses
 - Preprocessing (e.g., motion correction, registration)
 - Functional connectivity analyses (e.g., seed connectivity, intrinsic connectivity distribution)
 - Task-related analyses (e.g., general linear model, defining regions of interest, preparing files for real-time scanning, group-level analyses of task-related data)
 - Fluency in neuroanatomy

Clinical

- *Phone Screening (50+ hours)*
 - Proficient in semi-structured screening querying medication/treatment history, symptoms of psychopathology, drug/alcohol use, etc.
- *REDCap Data Management (100+ hours)*
 - Daily maintenance of participant records (e.g., recording data collected during phone screens, updating study logs)
- *Structured Clinical Interviewing and Psychological Assessment (50+ supervised hours)*
 - Trained in structured clinical interviewing by clinicians at the Yale OCD Clinic
 - Proficient with Mini International Neuropsychiatric Interview (MINI)
 - Proficient with Yale-Brown Obsessive-Compulsive Scale (Y-BOCS)
 - Experience with Structured Clinical Interview for DSM-5 (SCID-5), particularly SCID-II
- *Clinical Writing and Communication (75+ hours)*
 - Proficient in writing clinical reports, conveying clinical information in group setting