

Erin L. Browning

Curriculum Vitae, April 2014
erinlbrowning@gmail.com

EDUCATION

B.S. Neuroscience , University of Wisconsin—Milwaukee, 3.955 GPA Graduated Summa Cum Laude Minor: Chemistry Minor: Biology Honors Thesis, Psychology	2009-2012
Lawrence University, 3.256 GPA	2007-2009
Rochester Community and Technical College, 3.47 GPA	2005-2007
Honors High School Diploma, Mayo High School	2003-2007

RESEARCH EXPERIENCE

Dr. Krista Lisdahl, UW - Milwaukee, Psychology

Research Assistant, 2011-2012; Research Intern, 2012-current

My thesis topic was on the effects of brain-derived neurotrophic factor and BMI on prefrontal cortex development in adolescents. Our current, RO1-funded study looks at the role of exercise on adolescent brain development, especially in marijuana and polydrug users, and further, aims to discover if exercise has a protective effect against the damages of drug usage in this age group. My responsibilities include computer repair, data management, recruitment and running participants on our protocol, including collecting and scoring neuropsychological measures, running maximal exercise tests and processing MRI data. I use AFNI and FreeSurfer to determine cortical thickness, performance on fMRI tasks, and DTI tractography. I used ePrime to program a no-go task for use during MRI scanning.

Dr. Anthony Greene, UW - Milwaukee, Psychology

Research Assistant, 2010-2012

I examined the role of the medial temporal lobe in memory. Our measures included MRI, eye-tracking and behavioral tests. I was responsible for maintaining our computers and data backups and writing behavioral paradigms in ePrime. Additionally, I processed older data from MRI studies using AFNI.

Dr. J Carson Smith, UW - Milwaukee, Human Movement Sciences

Lab Manager, 2009-2011

I investigated the role of exercise in neurological disorders, such as Alzheimer's, anxiety and depression using EEG, maximal exercise testing, and MRI measures. I was responsible for maintaining, running and organizing our on-campus lab, including managing and training other undergraduate research assistants.

Dr. Istvan Pirko, Mayo Clinic, Neurology

SURF Summer Research Assistant, 2010

I examined a new mouse model with a multiple sclerosis-like phenotype and compared its disease progression with a further-characterized model. I used MRI, including T1 and T2-weighted scans, and behavioral measures, such as rotarod, to analyze disease progression.

MANUSCRIPTS IN PREPARATION

Istvan Pirko, Jeffrey D. Gamez, Moses Rodriguez, Mihajlo Babovic, **Erin Browning**, Aaron J.

Johnson, Slobodan I. Macura. Submitted. *The Clinico-Radiological Paradox in Murine Models of Multiple Sclerosis*. *Annals of Neurology*.

GRANTS

University of Wisconsin--Milwaukee

Support for Undergraduate Research Fellows (SURF), \$1500	Sept. 2011-May 2012
Office of Undergraduate Research Travel Grant, \$400	July 2011
SURF Summer Grant, \$2800	June 2011-Sept. 2011
Support for Undergraduate Research Fellows (SURF), \$3800	Sept. 2010-May 2011
Mayo Clinic	
Neurology Departmental Grant, \$5000	June 2010
Summer Undergraduate Research Fellow (SURF), \$6000	June 2010-August 2010

HONORS AND AWARDS

American Psychological Association Division 40 (Clinical Neuropsychology) Student Poster Award	2013 Annual Meeting
Dean's List, UWM	Fall 2009 - Spring 2012
Lawrence University Trustees Scholarship (\$7000/year)	Spring 2007
Mayo Clinic Scholarship Winner (\$3000/year)	Spring 2007 - Fall 2011
Experian Scholarship Winner (\$1000)	Spring 2007
Dean's List, RCTC	Fall 2006 - Spring 2007

PROFESSIONAL SOCIETIES

Member of the Society for Neuroscience	Fall 2012
Member of the Cognitive Neuroscience Society	Spring 2012
Member of Phi Beta Kappa	Spring 2012
Member of the Society for Psychophysiological Research	Fall 2011
Invited to Mortar Board (invitation declined)	Spring 2011
Member of Phi Kappa Phi	Spring 2011
Member of Golden Key	Spring 2010
Member of UWM's Honors College	Spring 2009
Member of Phi Theta Kappa	Spring 2007

CONFERENCE POSTER PRESENTATIONS

Erin Browning, Jenessa Price, Skyler Shollenbarger, Jon Wieser, J Strong and Krista Lisdahl. November 13th, 2013. The Effects of BMI and *BDNF* genotype on prefrontal cortex morphology. Poster Presentation at The Society for Neuroscience, San Diego, CA.

Skyler Shollenbarger, Natasha Wright, **Erin Browning**, Krista Lisdahl. August 3rd, 2013. Executive Functioning in Adolescent and Emerging Adult Poly-Substance Users. Poster Presentation at The American Psychological Association, Honolulu, HI.

Anthony Greene, **Erin Browning**, Youcai Yang, Alexander Hinman, Peter Leo, and Patrick Heffernan. The hippocampus aggregates complex associations to make predictions: Implicit and explicit performers engage the hippocampus in different ways. October 13-17th, 2012. Poster Presentation at the Society for Neuroscience, New Orleans, LA.

Sandra Figueira, Lauren Hopkins, **Erin Browning**, Patrick Heffernan, Omar Kattan, Melissa Schwartz, and Anthony J. Greene. Auditory Transitive Inference. April 20, 2012. Poster presentation at UW-Milwaukee's Undergraduate Research Symposium, Milwaukee, WI.

Anthony Greene, Lauren Hopkins, Peter Leo, Youcai Yang, Alexander Hinman, Patrick Heffernan, Sandra Figueira, **Erin Browning**, Kaila Balling, Omar Kattan. Mar. 31-Apr. 3rd, 2012. Distinct Patterns of Hippocampal Activation in Implicit Versus Explicit Inference. Poster presentation at Cognitive Neuroscience Society, Chicago, IL

Erin Browning, Jollyn Tyryfter, Qu Tian, and J. Carson Smith. *The Anxiolytic Effects of Exercise are Sustained after an Emotional Challenge*. Oct. 28th, 2011. Poster presentation at University of

Wisconsin - Milwaukee Open House.

- Erin Browning**, Jollyn Tyryfter, Qu Tian, and J. Carson Smith. *The Anxiolytic Effects of Exercise are Sustained after an Emotional Challenge*. Sept. 14-Sept. 18, 2011. Poster presentation at the Society for Psychophysiology Research, Boston, MA
- Lauren Hopkins, Ryan Hanson, **Erin Browning**, Melissa Schwartz, Sandra Figueira, Patrick H Heffernan, Alex Hinman, Anthony Greene. May 13, 2011. *A No-Cost Reversal Design Within the Contextual Cueing Paradigm*. Poster presentation at Milwaukee Chapter of the Society for Neuroscience Annual Meeting, Milwaukee, WI.
- Erin Browning**, Jollyn Tyryfter, Qu Tian, and J. Carson Smith. *The Anxiolytic Effects of Exercise are Sustained after an Emotional Challenge*. April 29 2011. Poster presentation at UW System Symposium, Riverside, WI.
- Phoenix A. Logan, Nicole E. Hatt, Kaila L. Balling, **Erin Browning**, & J. Carson Smith. *The Neuroscience of Exercise*. April 29 2011. Poster presentation at UW System Symposium, Riverside, WI.
- Erin Browning**, Jollyn Tyryfter, Qu Tian, and J. Carson Smith. *The Anxiolytic Effects of Exercise are Sustained after an Emotional Challenge*. April 15, 2011. Poster presentation at UW-Milwaukee's Undergraduate Research Symposium, Milwaukee, WI.
- Phoenix A. Logan, Nicole E. Hatt, Kaila L. Balling, **Erin Browning**, and J. Carson Smith. *The Neuroscience of Exercise*. April 15, 2011. Poster presentation at UW-Milwaukee's Undergraduate Research Symposium, Milwaukee, WI.
- Erin Browning**, Jollyn Tyryfter, Qu Tian, and J. Carson Smith. *The Anxiolytic Effects of Exercise are Sustained after an Emotional Challenge*. April 15, 2011. Poster presentation at College of Health Sciences Research Symposium, Milwaukee, WI.
- Phoenix A. Logan, Nicole E. Hatt, Kaila L. Balling, **Erin Browning**, and J. Carson Smith. *The Neuroscience of Exercise*. April 15, 2011. Poster presentation at College of Health Sciences Research Symposium, Milwaukee, WI.
- Istvan Pirko, Jeffery Gamez, and **Erin Browning** [Full author list forthcoming]. April 9-April 16, 2011. *Unusually Large T1 Hypointense/T2 Hyperintense Brain Lesions in a Virally Induced Murine Model of Fulminant Monophasic Demyelination*. Poster presentation at American Academy of Neurology, Hawaii, HI.
- Istvan Pirko, Jeffery Gamez, and **Erin Browning** [Full author list forthcoming]. April 9-April 16, 2011. *Characterization of Deep Gray Matter T2 Hypointensity in a Murine Model of Multiple Sclerosis*. Poster presentation at American Academy of Neurology, Hawaii, HI.
- Erin Browning**, Jollyn Tyryfter, Qu Tian, and J. Carson Smith. *The Anxiolytic Effects of Exercise are Sustained after an Emotional Challenge*. April 6 2011. Poster presentation at Posters in the Rotunda, Madison, WI.
- Phoenix A. Logan, Nicole E. Hatt, Kaila L. Balling, **Erin Browning**, & J. Carson Smith. April 15, 2011. *The Neuroscience of Exercise*. April 6 2011. Poster presentation at Posters in the Rotunda, Madison, WI.
- Erin Browning**, Jollyn Tyryfter, Qu Tian, and J. Carson Smith. *The Anxiolytic Effects of Exercise are Sustained after an Emotional Challenge*. March 28-April 2 2011. Poster presentation at The

National Conference for Undergraduate Research (NCUR), Ithaca, NY.

Phoenix A. Logan, Nicole E. Hatt, Kaila L. Balling, **Erin Browning**, & J. Carson Smith. April 15, 2011. *The Neuroscience of Exercise*. March 28-April 2 2011. Poster presentation at The National Conference for Undergraduate Research (NCUR), Ithaca, NY.

Erin Browning, Qu Tian, William V. Massey, Jollyn Tryfter, Nicholas D. Jones, and J. Carson Smith. October 30, 2010. *Ratings of Pleasantness and Arousal During Moderate Intensity Exercise Compared to Seated Rest*. Poster presentation at University of Wisconsin - Milwaukee Open House.

Erin Browning, Jeffrey Gamez, Mike Babovic, Istvan Pirko. August 3, 2010. *A comparison of brain MRI features and disability between two strains of interferon- γ receptor deficient mice in a virus induced model of MS*. Poster presentation at Mayo Clinic SURF Conference, Rochester, MN.

Jollyn Tyryfter, Qu Tian, William V. Massey, **Erin Browning**, Nicholas D. Jones and J. Carson Smith. April 30, 2010. *The Anxiolytic Effects of Exercise are Sustained after an Emotional Challenge*. Poster presentation at Undergraduate Research Symposium, Milwaukee, WI.

Erin Browning, Qu Tian, William V. Massey, Jollyn Tryfter, Nicholas D. Jones, and J. Carson Smith. April 30, 2010. *Ratings of Pleasantness and Arousal During Moderate Intensity Exercise Compared to Seated Rest*. Poster presentation at Undergraduate Research Symposium, Milwaukee, WI.

Jollyn Tyryfter, Qu Tian, William V. Massey, **Erin Browning**, Nicholas D. Jones and J. Carson Smith. April 30, 2010. *The Anxiolytic Effects of Exercise are Sustained after an Emotional Challenge*. Poster presentation at College of Health Sciences Spring Research Symposium, Milwaukee, WI.

Erin Browning, Qu Tian, William V. Massey, Jollyn Tryfter, Nicholas D. Jones, and J. Carson Smith. April 23, 2010. *Ratings of Pleasantness and Arousal During Moderate Intensity Exercise Compared to Seated Rest*. Poster presentation at College of Health Sciences Spring Research Symposium, Milwaukee, WI.

VOLUNTEERING

Office of Undergraduate Research, University of Wisconsin - Milwaukee, Fall 2009-current
I help with outreach to the UWM community, including giving class presentations and representing the office at various events. I also have helped setup and teardown for the Office's events, including their undergraduate conferences.

Curriculum Committee, University of Wisconsin - Milwaukee, September 2011-May 2012
We make decisions adding or removing courses to the curriculum, including whether or not they comply with the general education requirements set out by the University of Wisconsin system.

CERTIFICATIONS

MRI Safety Training at the Medical College of Wisconsin. Renewed March 2012. Safety training for magnetic resonance imaging through the Medical College of Wisconsin

Adult CPR/AED certification. March 2011-March 2013. Certified through the American Heart Association.

Animal Safety Training at Mayo Clinic. Certified June 2010.

PROFICIENCIES

Software: Adobe Photoshop, AFNI, Microsoft Office Suite, Linux/Mac OSX/Windows XP and up, HTML/CSS and web design, ePrime, Python, shell scripting, FreeSurfer

Hardware: EEG Geodesics Net maintenance and care, general computer maintenance.