Megan A. Williams, Ph.D. 307 Neely Ct. Franklin, TN 37067 (701) 400-7696 megan.williams@vanderbilt.edu

EDUCATION Vanderbilt University, Nashville, TN Ph.D. in Neuroscience Advisor: Danny Winder, Ph.D. Certificate in College Teaching	May 2015
University of North Dakota, Grand Forks, ND B.S. in Biology and Chemistry, summa cum laude Minor: Mathematics Secondary Education Program	May 2009
POSITIONS Vanderbilt University, Nashville, TN Assistant Director, Medical Scientist Training Program	July 2015-present
 Direct Admissions and Recruiting Processes for MSTP Vice-Chair, MSTP Admissions Committee (MAC) Manage Communications for MSTP including website, social media, and monthly newsletter 	Sept 2017-present
 Founding Director, MSTP Summer Undergraduate Research Program (VM-SURP) 	June 2016-present
 Manager, MSTP Programming Lunches with Leaders 	June 2017-present
 Southeastern Medical Scientist Symposium Direct MSTP Outreach AAMC GREAT Group MD/PhD Section Communications 	July 2015-present
Committee	Jan 2019-present
RESEARCH EXPERIENCE Vanderbilt University, Nashville, TN	
Doctoral Candidate Research Advisor: Dr. Danny Winder	Aug. 2009-May 2015
 Analyzed the effects of stress and norepinephrine on rostral linear nucleus dopamine neurons in mice 	
 Utilized a transgenic mouse model for immunohistochemistry and whole cell electrophysiology experiments in brain slices 	
 Key finding: norepinephrine increases excitatory transmis nucleus dopamine neurons via activation of the α₁ adrene 	
<i>University of North Dakota, Grand Forks, ND</i> Undergraduate Research Assistant Advisor: Van Doze, Ph.D.	June 2008-May 2009
 Performed field electrophysiology experiments on mouse Conducted behavioral tests on transgenic mouse lines an 	

University of North Dakota, Grand Forks, ND Lab Assistant

Advisor: Min Wu. Ph.D.

- Performed molecular biology techniques
- Maintained general lab cleanliness •

TEACHING EXPERIENCE

Vanderbilt University, Nashville, TN

Guest Lecture, Neurobiology of Addiction

- Prepared and gave 3 guest lectures in an undergraduate Neuroscience course
- Led group discussion session based on the lectures •

Vanderbilt University, Nashville, TN

Guest Lecture, The School for Science and Math at Vanderbilt Spring 2012-2015

• Prepared and gave 4 annual guest lectures to high school students

Vanderbilt University, Nashville, TN

Teaching Assistant, Parkinson's Disease IGP module

- Maintained course attendance and student participation records
- Graded student exams
- Created and taught 1 guest lecture

Central High School, Grand Forks, ND

Biology Student Teacher

- Developed and implemented multiple units in a high school biology classroom with the aid of a licensed cooperating teacher
- Graded assignments and exams; maintained course grades

Department of Chemistry, University of North Dakota, Grand Forks, ND Fall 2007-Spring 2008

Undergraduate Teaching Assistant

- Assisted students during lab experiments and office hours
- Prepared and conducted pre-lab lectures; graded lab reports
- Proctored lecture exams and final exams

Department of Mathematics, University of North Dakota, Grand Forks, ND Tutor, Mathematics Learning Center Fall 2005-Spring 2008

Tutored individual or small groups of students in various undergraduate • mathematics courses from College Algebra through Calculus II

Early Childhood Learning Center, Bismarck, ND

Summer Teaching Assistant

- Interacted with children during play, learning activities, and on fieldtrips
- Assisted in planning and leading learning activities for the children

Grand Forks Public School District, Grand Forks, ND

Tutor, Red River High School

Mentored and tutored high school students in a variety of subjects including Biology, • Chemistry, Geometry, Algebra, and English.

PUBLICATIONS

Aug. 2004-Nov. 2004

Spring 2009

Spring 2012

Spring 2015

Summer 2005-2007

Nov. 2004-May 2005

Williams MA, Li C., Kash TL, Matthews RT, and Winder DG. (2014) Excitatory drive onto dopaminergic neurons in the rostral linear nucleus is enhanced by norepinephrine in an α 1 adrenergic receptor-dependent manner. *Neuropharmacology* 86:116-24.

POSTER PRESENTATIONS

Fettig MA, Zhou J, Choi KW, Olsen CM, Matthews RT, and Winder DG. (2014, January). Stress and noradrenergic modulation of extended amygdala projecting dopamine neurons of the rostral linear nucleus. Poster. Vanderbilt Kennedy Center Science Day, Nashville, TN.

Fettig MA, Zhou J, Choi KW, Olsen CM, Matthews RT, and Winder DG. (2013, November). Stress and noradrenergic modulation of extended amygdala projecting dopamine neurons of the rostral linear nucleus. Poster. Annual meeting of the Society for Neuroscience, San Diego, CA.

Fettig MA, Zhou J, Choi KW, Olsen ČM, Matthews RT, and Winder DG. (2013, January). Stress and noradrenergic modulation of extended amygdala projecting dopamine neurons of the rostral linear nucleus. Poster. Vanderbilt Kennedy Center Science Day, Nashville, TN. *Received award for top graduate student presentation*.

Fettig MA, Zhou J, Choi KW, Olsen CM, Matthews RT, and Winder DG. (2012, October). Stress and noradrenergic modulation of extended amygdala projecting dopamine neurons of the rostral linear nucleus. Poster. Annual meeting of the Society for Neuroscience, New Orleans, LA.

Fettig MA, Matthews RT, Choi KW, Zhou J, Li C, Kash TL, and Winder DG. (2012, January). Stress and noradrenergic modulation of A10dc dopamine neurons. Poster. Vanderbilt Kennedy Center Science Day, Nashville, TN.

Fettig MA, Luger EJ, Darsie B, Wald JM, Higgins EE, Bernston S, Haselton J, Perez D, Rorabaugh B, Doze VA. (2008, October) Alpha-1A adrenergic receptor activation reduces depression and anxiety in mice. Poster. Undergraduate Research in Molecular Sciences Regional Competition in conjunction with ASBMB and ACS, Fargo, ND. *Received Honorable Mention*

Fettig MA, Goldenstein BL, Nelson BW, Xu K, Wald JM, O'Shea LA, Doze VA. (2008, September) Alpha-2 adrenergic receptor inhibition of hippocampal epileptiform activity: comparisons of ligand efficiency and potency. Poster. ND EPSCoR conference, Grand Forks, ND.

Fettig MA, Goldenstein BL, Xu K, Nelson BW, Wald JM, O'Shea LA, Luger EJ, Doze VA. (2008, August) Alpha-2A adrenergic receptor activation inhibits mouse hippocampal CA3 network activity. Poster. REU poster session, Grand Forks, ND.

AWARDS, HONORS, GRANTS

 NIDA Predoctoral NRSA Fellowship (F31 DA034429-02) 	2013-2015
 Top Graduate Student Poster Presentation in Cellular and 	
Molecular category at Vanderbilt Kennedy Center Science Day	Jan 2013
 Ion Channel & Transporter Biology training grant (T32 NS07491) 	2010-2011
SERVICE AND OUTREACH	
 Speaker and organizer "MD/PhD Career Paths: Conversations 	
with Physician-Scientists" ABRCMS 2019 in Anaheim, CA	Nov 2019
 Invited speaker and panelist on "MD/PhD: Is it Right for Me?" 	
Leadership Alliance National Conference in Hartford, CT	July 2019
Invited small group facilitator "Administrators Session" at AAMC	
GREAT Group MD-PhD Section Professional Development	

- Meeting in Bethesda, MD
 Invited panelist on "MD/PhD: Is it Right for Me?" NIH Graduate and Professional School Fair in Bethesda, MD
 July 2019
- Invited panelist on "Admissions Panel" at Meharry Medical College in Nashville, TN
 June 2019
- Invited speaker and panelist on "MD/PhD: Is it Right for Me?"

Leadership Alliance National Conference in Hartford, CT	July 2018	
 Invited speaker "Graduate and Medical School Admissions" at 		
Fisk University in Nashville, TN	July 2018	
 Invited panelist on "Admissions Panel" at Meharry Medical 		
College in Nashville, TN	June 2018	
 Vanderbilt University Staff Advisory Council Member 	2016-2018	
 Invited panelist "MD/PhD Admissions" at Southeastern Medical 		
Scientist Symposium in Atlanta, GA	November 2017	
 Invited speaker "Graduate and Medical School Admissions" at 		
 Oakwood University in Huntsville, AL 	March 2017	
Invited panelist on "Admissions Panel" at the Midwest Pre-Health		
Conference in Bowling Green, OH	October 2015	
 Invited speaker "Vanderbilt MSTP" at Northwestern University 	September 2015	
 Neuroscience Student Organization Outreach Coordinator 	2011-2012	
 Organized Vanderbilt Brain Blast 2012 – recruited volunteers and booths, 		
assisted in advertising and organization of event logistics		
 Assisted with organization of student invited speaker and organization 	other NSO	
meetings and events		

PROFESSIONAL AFFILIATIONS

- National Association of Advisors for the Health Professions member 2015
- Phi Beta Kappa Honor Society member

2015-present 2007-present