

CURRICULUM VITAE FOR DOMINIC T. CHENG, PH.D.

The Johns Hopkins University School of Medicine
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EDUCATION AND TRAINING

<u>Dates</u>	<u>Degrees</u>	<u>Institutions</u>	<u>Disciplines</u>
1990-1994	B.S.	University of Illinois at Urbana-Champaign	Psychology
1997-2002	M.S.	University of Wisconsin-Milwaukee	Psychology
2002-2005	Ph.D.	University of Wisconsin-Milwaukee	Psychology
2005-2010	Postdoc	Johns Hopkins University	Cognitive Neuroscience

PROFESSIONAL EXPERIENCE

<u>Dates</u>	<u>Positions</u>	<u>Institutions (Lab PI)</u>
1992-1994	Undergraduate RA	University of IL at Urbana-Champaign (<i>Dr. Neal Cohen</i>)
1996-1997	Post-baccalaureate RA	Stanford University (<i>Drs. John Gabrieli & James Gross</i>)
1997-2005	Graduate RA	University of WI-Milwaukee (<i>Dr. Fred Helmstetter</i>)
2005-2010	Postdoctoral Fellow	Johns Hopkins University (<i>Dr. John Desmond</i>)
2009-pres.	Co-Investigator	Wayne State University (<i>Dr. Sandra Jacobson</i>)
2010-pres.	Faculty Research Associate	Johns Hopkins University

RESEARCH ACTIVITIES

Manuscripts

1. **Cheng, D. T.**, Knight, D. C., Smith, C. N., Stein, E. A., & Helmstetter, F. J. (2003). Functional MRI of human amygdala activity during Pavlovian fear conditioning: Stimulus processing versus response expression. Behavioral Neuroscience, 117(1), 3-10.
2. Knight, D. C., **Cheng, D. T.**, Smith, C. N., Stein, E. A., & Helmstetter, F. J. (2004). Neural substrates mediating human delay and trace fear conditioning. Journal of Neuroscience, 24(1), 218-228.
3. Knight, D. C., Smith, C. N., **Cheng, D. T.**, Stein, E. A., & Helmstetter, F. J. (2004). Amygdala and hippocampal activity during acquisition and extinction of fear conditioning. Cognitive, Affective, and Behavioral Neuroscience, 4(3), 317-325.
4. **Cheng, D. T.**, Knight, D. C., Smith, C. N., & Helmstetter, F. J. (2006). Human amygdala activity during the expression of fear responses. Behavioral Neuroscience, 120(6), 1187-1195.
5. **Cheng, D. T.**, Richards, J. A., & Helmstetter, F. J. (2007). Activity in the human amygdala corresponds to early, rather than late period autonomic responses to a signal for shock. Learning and Memory, 14(7), 485-490. PMID: PMC1934343.
6. **Cheng, D. T.**, Disterhoft, J. F., Power, J. M., Ellis, D. A., & Desmond, J. E. (2008). Neural substrates underlying human delay and trace eyeblink conditioning. Proceedings of the National Academy of Sciences USA, 105(23), 8108-8113. PMID: PMC2430367.

7. **Cheng, D. T.**, Faulkner, M. L., Disterhoft, J. F., & Desmond, J. E. (2010). The effects of aging in delay and trace human eyeblink conditioning. Psychology and Aging, *25*(3), 684-690. PMID: PMC2944000.
8. Liu, C. C., Crone, N. E., Franaszczuk, P. J., **Cheng, D. T.**, Schretlen, D. S., & Lenz, F. A. (2011). Fear conditioning is associated with dynamic directed functional interactions between and within the human amygdala, hippocampus, and frontal lobe. Neuroscience, *189*, 359-369. PMID: PMC3150454.
9. **Cheng, D. T.**, Meintjes, E. M., Stanton, M. E., Desmond, J. E., Pienaar, M., Dodge, N. C., Power, J. M., Molteno, C. D., Disterhoft, J. F., Jacobson, J. L., & Jacobson, S. W. (2014). Functional MRI of cerebellar activity during eyeblink classical conditioning in children and adults. Human Brain Mapping, *35* (4), 1390-1403. PMID: PMC3823743.
11. Liu, C. C., Chien, J. H., Kim, J. H., Chuang Y. F., **Cheng, D. T.**, Anderson, W. S., & Lenz, F. A. (2015). Cross-frequency coupling in deep brain structures upon processing the painful sensory inputs. Neuroscience, *303*, 412-421. PMID:26168707.
12. Peterburs, J., **Cheng, D. T.**, Desmond, J. E. (2015). The association between eye movements and cerebellar activation in a verbal working memory task. Cerebral Cortex. doi: 10.1093/cercor/bhv187
13. **Cheng, D. T.**, Jacobson, S. W., Jacobson, J. L., Molteno, C. D., Stanton, M. E., & Desmond, J. E. (in press). Eyeblink classical conditioning in alcoholism and fetal alcohol spectrum disorders. Frontiers in Psychiatry.
14. Liu, C. C., Chien, J. H., **Cheng, D. T.**, Chuang, Y. F., & Lenz, F. A. (submitted). Pain-related brain oscillatory activities in human frontal lobe, amygdala, and hippocampus. Journal of Neurophysiology.
15. **Cheng, D. T.**, Katzenelson, A. M., Faulkner, M. L., Disterhoft, J. F., & Desmond, J. E. (in preparation). Parietal lobe activity related to conscious awareness: Evidence from tDCS and fMRI.
16. **Cheng, D. T.**, Katzenelson, A. M., Faulkner, M. L., Disterhoft, J. F., & Desmond, J. E. (in preparation). Event-related fMRI during the acquisition of human eyeblink conditioning in younger and older adults.
17. **Cheng, D. T.**, Meintjes, E. M., Stanton, M. E., Desmond, J. E., Dodge, N. C., Pienaar, M., Molteno, C. D., Jacobson, J. L., & Jacobson, S. W. (in preparation). Functional MRI of human eyeblink classical conditioning in children with prenatal alcohol exposure.

Abstracts

Knight, D. C., Smith, C. N., **Cheng, D. T.**, Stein, E. A., & Helmstetter, F. J. (1998). Functional imaging of human conditional fear. NeuroImage, *7*(4), S53.

Cheng, D. T., Knight, D. C., Smith, C. N., Stein, E. A., & Helmstetter, F. J. (1998). Response versus stimulus-based analysis of functional brain images in human fear conditioning. Society for Neuroscience Abstracts, *24*(2), 1913.

Knight, D. C., Smith, C. N., **Cheng, D. T.**, Stein, E. A., & Helmstetter, F. J. (1998). fMRI of brain regions involved in acquisition versus performance of human fear conditioning. Society for Neuroscience Abstracts, *24*(2), 1523.

- Smith, C. N., Knight, D. C., **Cheng, D. T.**, Stein, E. A., & Helmstetter, F. J. (1998). Functional neuroimaging of human differential fear conditioning. Society for Neuroscience Abstracts, 24(2), 1913.
- Knight, D. C., Smith, C. N., **Cheng, D. T.**, Stein, E. A., & Helmstetter, F. J. (1999). Neural substrates of discrimination and reversal learning in human fear conditioning as revealed by fMRI. Society for Neuroscience Abstracts, 25(2), 2067.
- Smith, C. N., Knight, D. C., **Cheng, D. T.**, McIntosh, A. R., & Helmstetter, F. J. (2000). Network analysis of human differential fear conditioning. Society for Neuroscience Abstracts, 26(1), 1852.
- Knight, D. C., **Cheng, D. T.**, Smith, C. N., Stein, E. A., & Helmstetter, F. J. (2000). Event-related fMRI of neural substrates mediating human delay and trace fear conditioning. Society for Neuroscience Abstracts, 26(1), 1852.
- Cheng, D. T.**, Knight, D. C., Smith, C. N., Stein, E. A., & Helmstetter, F. J. (2000). Neural substrates of explicit and implicit memory performance during Pavlovian fear conditioning. Society for Neuroscience Abstracts, 26(1), 709.
- Knight, D. C., **Cheng, D. T.**, Smith, C. N., Stein, E. A., & Helmstetter, F. J. (2001). Functional MRI of neural substrates of awareness during human fear conditioning. Journal of the International Neuropsychology Society, 7(2), 251-252.
- Cheng, D. T.**, Knight, D. C., Smith, C. N., Stein, E. A., & Helmstetter, F. J. (2001). Event-related fMRI of neural substrates important for learned responses during Pavlovian fear conditioning. Society for Neuroscience Abstracts 27, Program No. 75.3.
- Smith, C. N., Knight, D. C., **Cheng, D. T.**, & Helmstetter, F. J. (2002). Concurrent development of explicit and implicit learning in differential delay and trace fear conditioning in humans. Presented at the 2002 Midwestern Psychological Association Annual Meeting, Chicago, IL. Poster #45.
- Cheng, D. T.**, Smith, C. N., Knight, D. C., & Helmstetter, F. J. (2002). Dissociating declarative and non-declarative memory performance during human fear conditioning to categorical stimuli. Presented at the 2002 Midwestern Psychological Association Annual Meeting, Chicago, IL. Poster #44.
- Smith, C. N., Knight, D. C., **Cheng, D. T.**, Stein, E. A., Helmstetter, F. J. (2002). Brain activity during differential acquisition and reversal of fear conditioning. Presented at the 8th International Conference on Functional Mapping of the Human Brain, June 2-6, 2002, Sendai, Japan. Available on CD-Rom in NeuroImage, Vol. 16, No. 2. Poster #10338.
- Cheng, D. T.**, Knight, D. C., Smith, C. N., Stein, E. A., & Helmstetter, F. J. (2002). Neural substrates for autonomic response expression during Pavlovian fear conditioning. Presented at the 8th International Conference on Functional Mapping of the Human Brain, June 2-6, 2002, Sendai, Japan. Available on CD-Rom in NeuroImage, Vol. 16, No. 2. Poster #10286.
- Smith, C. N., Knight, D. C., **Cheng, D. T.**, McIntosh, A. R., Stein, E. A., Rao, S. M., & Helmstetter, F. J. (2002). Changes in stimulus- and response-related networks during acquisition and reversal of fear conditioning. Program No. 20.3. 2002 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience.
- Cheng, D. T.**, Smith, C. N., Thomas, T. L., Richards, J. A, Knight, D. C., Rao, S. M., Stein, E. A., & Helmstetter, F. J. (2002). Pavlovian fear conditioning to categorical dimensions of visual stimuli: an

event-related fMRI study. Program No. 872.15. 2002 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience.

Richards, J. A., Smith, C. N., **Cheng, D. T.**, Thomas, T. L., Knight, D. C., Rao, S. M., & Helmstetter, F. J. (2003). Stimulus-evoked changes in brain activity during human fear conditioning: A multivariate analysis of early vs. late learning. Presented at the 9th International Conference on Functional Mapping of the Human Brain, June 19-22, 2003, New York, NY. Available on CD-Rom in NeuroImage, Vol. 19, No. 2. Poster #209.

Thomas, T. L., Richards, J. A., **Cheng, D. T.**, Smith, C. N., Rao, S. M., & Helmstetter, F. J. (2003). Neural activation related to task difficulty during differential fear conditioning. Presented at the 9th International Conference on Functional Mapping of the Human Brain, June 19-22, 2003, New York, NY. Available on CD-Rom in NeuroImage, Vol. 19, No. 2. Poster #224.

Cheng, D. T., Smith, C. N., Thomas, T. L., Richards, J. A., Knight, D. C., Rao, S. M., & Helmstetter, F. J. (2003). Neural correlates of processing categorical stimuli during human Pavlovian fear conditioning: Implicit versus explicit memory processing. Presented at the 9th International Conference on Functional Mapping of the Human Brain, June 19-22, 2003, New York, NY. Available on CD-Rom in NeuroImage, Vol. 19, No. 2. Poster #148.

Richards, J. A., **Cheng, D. T.**, Thomas, T. L., Smith, C. N., & Helmstetter, F. J. (2003). Frontal lobe activity during acquisition, extinction, and retrieval of fear conditioning. Program No. 85.11. 2003 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience.

Thomas, T. L., Richards, J. A., **Cheng, D. T.**, Smith, C. N., & Helmstetter, F. J. (2003). Neural correlates of explicit awareness during a complex differential fear conditioning task. Program No. 85.9. 2003 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience.

Cheng, D. T., Smith, C. N., Thomas, T. L., Richards, J. A., & Helmstetter, F. J. (2003). Brain activity during Pavlovian fear conditioning with and without awareness. Program No. 85.12. 2003 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience.

Cheng, D. T., Knight, D. C., Smith, C. N., Stein, E. A., & Helmstetter, F. J. (2004). Autonomic fear responses and human amygdala activity: an event-related fMRI study. Presented at the 2004 Pavlovian Society Meeting, Baltimore, MD.

Richards, J. A., **Cheng, D. T.**, Rao, S. M., & Helmstetter, F. J. (2004). Event-related fMRI of short-term versus long-term extinction following fear conditioning. Program No. 766.18. 2004 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience.

Cheng, D. T., Smith, C. N., Richards, J. A., & Helmstetter, F. J. (2004). Different neural circuits related to explicit and implicit performance during fear conditioning. Program No. 369.11. 2004 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience.

Richards, J. A., **Cheng, D. T.**, & Helmstetter, F. J. (2005). Stimulus-evoked changes in human brain activity during extinction of Pavlovian fear conditioning. Presented at the 2005 Pavlovian Society Meeting, Anaheim, CA.

Richards, J. A., **Cheng, D. T.**, Smith, C. N., & Helmstetter, F. J. (2006). Distinct neural correlates of early and later learning during complex differential fear conditioning. Program No. 366.24. 2006 Neuroscience Meeting Planner. Atlanta, GA: Society for Neuroscience, 2006. Online.

Marvel, C. L., Ellis, D. A., **Cheng, D. T.**, & Desmond, J. E. (2006). The effects of increasing verbal working memory executive load in prefrontal areas 9/46 and the cerebellum. Program No. 568.15. 2006 Neuroscience Meeting Planner. Atlanta, GA: Society for Neuroscience, 2006. Online.

Cheng, D. T., Disterhoft, J. F., Power, J. M., Oh, M. M., Weiss, C., Ellis, D. A., Marvel, C. L., & Desmond, J. E. (2006). Within-subject performance during human delay and trace eyeblink conditioning. Program No. 461.23. 2006 Neuroscience Meeting Planner. Atlanta, GA: Society for Neuroscience, 2006. Online.

Disterhoft, J. F., **Cheng, D. T.**, Desmond, J. E., Miller, M., Weiss, C., & Wyrwicz, A. (2007). Imaging trace and delay eyeblink conditioning in rabbits and humans. Presented at the 2007 Pavlovian Society Meeting, Austin, TX.

Cheng, D. T., Disterhoft, J. F., Power, J. M., Ellis, D. A., & Desmond, J. E. (2007). The effects of aging on human delay and trace eyeblink conditioning. Program No. 204.13. 2007 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2007. Online.

Cheng, D. T., Katzenelson, A. M., Disterhoft, J. F., Power, J. M., & Desmond, J. E. (2008). A functional MRI investigation on the effects of awareness and distraction during human eyeblink conditioning. Presented at the 2008 Pavlovian Society Meeting, Weehawken, NJ.

Katzenelson, A. M., **Cheng, D. T.**, Disterhoft, J. F., Power, J. M., & Desmond, J. E. (2008). Neural correlates underlying the expression of conditioned responses during human eyeblink conditioning. Program No. 680.14. 2008 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2008. Online.

Cheng, D. T., Katzenelson, A. M., Disterhoft, J. F., Power, J. M., & Desmond, J. E. (2008). A functional MRI investigation on the effects of awareness and distraction during human eyeblink conditioning. Program No. 680.15. 2008 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2008. Online.

Katzenelson, A. M., **Cheng, D. T.**, Faulkner, M. L., Disterhoft, J. F., & Desmond, J. E. (2009). Event-related fMRI during the acquisition of human eyeblink conditioning in younger and older adults. Program No. 676.16. 2009 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2009. Online.

Cheng, D. T., Katzenelson, A. M., Faulkner, M. L., Disterhoft, J. F., & Desmond, J. E. (2009). Human eyeblink conditioning as a function of interstimulus intervals: An event-related fMRI study. Program No. 872.26. 2009 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2009. Online.

Cheng, D. T., Katzenelson, A. M., Faulkner, M. L., Disterhoft, J. F., & Desmond, J. E. (2009). Functional MRI of human eyeblink conditioning using long and short interstimulus intervals. Presented at the 2009 Pavlovian Society Meeting, Burlington, VT.

Cheng, D. T., Meintjes, E. M., Stanton, M. E., Desmond, J. E., Pienaar, M., Dodge, N. C., Power, J. M., Molteno, C. D., Disterhoft, J. F., Jacobson, J. L., & Jacobson, S. W. (2010). Functional MRI of children during eyeblink classical conditioning. Presented at the 2010 Pavlovian Society Meeting, Baltimore, MD.

Cheng, D. T., Katzenelson, A. M., Faulkner, M. L., Disterhoft, J. F., & Desmond, J. E. (2010). Functional MRI of human neural substrates important for CS-US contingency awareness during delay and trace eyeblink conditioning. Program No. 735.9. 2010 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2010. Online.

Katzenelson, A. M., **Cheng, D. T.**, Faulkner, M. L., Disterhoft, J. F., & Desmond, J. E. (2011). Age-related neural differences in eyeblink conditioning performance. Program No. 826.10. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online.

Cheng, D. T., Meintjes, E. M., Stanton, M. E., Desmond, J. E., Pienaar, M., Dodge, N. C., Power, J. M., Molteno, C. D., Disterhoft, J. F., Jacobson, J. L., & Jacobson, S. W. (2011). Neural correlates of eyeblink classical conditioning in children and adults. Program No. 94.05. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online.

Yang, C. A., **Cheng, D. T.**, & Desmond, J. E. (2012). Neural substrates of human trace eyeblink conditioning: fMRI and tDCS investigations. Program No. 800.23. 2012 Neuroscience Meeting Planner. New Orleans, LA: Society for Neuroscience, 2012. Online.

Liu, C. C., Zhang, J., Markman, T. M., Boone, C., Crone, N. E., Franaszczuk, P. J., **Cheng, D. T.**, & Lenz, F. A. (2012). Fear conditioning is associated with functional interactions between and within the human amygdala, hippocampus, and frontal lobe. Program No. 18.12. 2012 Neuroscience Meeting Planner. New Orleans, LA: Society for Neuroscience, 2012. Online.

Cheng, D. T., McCaul, M. E., Rilee, J. J., Wand, G. S., Hua, J., Qin, Q. & Desmond, J. E. (2013). An fMRI Investigation of the effects of alcoholism on eyeblink classical conditioning. Presented at the 2013 Research Society on Alcoholism Meeting, Orlando, FL.

Cheng, D. T., McCaul, M. E., Rilee, J. J., Wand, G. S., Hua, J., Qin, Q. & Desmond, J. E. (2013). Neural and behavioral effects of alcoholism on human eyeblink conditioning. Presented at the 2013 Pavlovian Society Meeting, Austin, TX.

Cheng, D. T., Meintjes, E. M., Stanton, M. E., Desmond, J. E., Dodge, N. C., Molteno, C. D., Jacobson, J. L., & Jacobson, S. W. (2014). Cerebellar activity during eyeblink classical conditioning in children with prenatal alcohol exposure. Presented at the 2014 Research Society on Alcoholism Meeting, Bellevue, WA.

Peterburs, J., **Cheng, D. T.**, & Desmond, J. E. (2014). The association between eye movements and cerebellar activation in a verbal working memory task. Program No. 173.14. 2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014. Online.

Chien, J. H., Lenz, F. A., Schmid, A. C., Kim, J. H., **Cheng, D. T.**, Anderson, W. S., & Liu, C. C. (2015). Contextual fear conditioning in humans using painful laser. Program No. 503.06. 2015 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2015. Online.

FUNDING

Previous

University of WI-Milwaukee Advanced Opportunity Fellowship	1999-2001
Bill and Melinda Gates Foundation Scholarship	2000-2005

R01 AG021501 Desmond (PI) 06/01/04 – 05/31/10
 NIH/NIA
 fMRI analysis of aging and awareness in conditioning
 The goal of this project is to investigate how aging and stimulus contingency awareness affects medial temporal and cerebellar activation in classical eyeblink conditioning.
 Role: Co-Investigator

R01 AA016781 Jacobson (PI) 07/15/08 – 06/30/13
 NIH/NIAAA
 Neural bases of eyeblink conditioning in FASD
 The goal of this project is to characterize the neural substrates underlying eyeblink conditioning in children diagnosed with fetal alcohol spectrum disorder (FASD).
 Role: Co-Investigator

Current

K01 AA020873 Cheng (PI) 09/30/11 – 08/31/16
 NIH/NIAAA
 Neuroimaging of eyeblink conditioning in subjects with alcohol use disorders
 The goal of this research is to investigate how alcoholism affects brain structures critical for a fundamental form of memory, eyeblink classical conditioning.
 Role: Principal Investigator

R01 AA018694 Desmond (PI) 09/01/10 – 08/31/15
 NIH/NIAAA
 fMRI investigations of cognition in alcoholics
 The goal of this research is to characterize differences between alcoholics and non-alcoholics in cerebro-cerebellar brain function underlying cognitive performance using fMRI with tasks of human working memory.
 Role: Co-Investigator

EDUCATIONAL ACTIVITIES

Teaching

Classroom Instruction

Fall 1997	Introduction to Psychology, Teaching Assistant, University of WI-Milwaukee
Spring 1998	Research Methods in Psych., Teaching Assistant, University of WI-Milwaukee
Fall 1998	Introduction to Psychology, Teaching Assistant, University of WI-Milwaukee
Spring 1999	Research Methods in Psych., Teaching Assistant, University of WI-Milwaukee
Summer 2001	Advanced Physiological Psychology, Guest Lecturer, University of WI-Milwaukee
Spring 2013	The Cerebellum: Is It Just for Motor Control?, Guest Lecturer, Johns Hopkins
Spring 2014	The Cerebellum: Is It Just for Motor Control?, Guest Lecturer, Johns Hopkins
Spring 2015	Clinical Neuroscience Seminar, Guest Lecturer, Johns Hopkins

Workshops

Summer 2004	fMRI Workshop – AFNI Session, Instructor, Medical College of Wisconsin
Fall 2004	fMRI Workshop – AFNI Session, Instructor, Medical College of Wisconsin

ORGANIZATIONAL ACTIVITIES

Editorial Activities

Ad-hoc Journal Peer Review

Alcoholism: Clinical and Experimental Research	Annals of Neurology
Behavioural Brain Research	Brain Stimulation
Clinical Ophthalmology	Cognitive, Affective, & Behavioral Neuroscience
Experimental Brain Research	JEP: Learning, Memory, and Cognition
Journal of Neurophysiology	Journal of Neuroscience Methods
Journal of Visualized Experiments	Neuropsychology

Professional Societies

1997-present	Society for Neuroscience
2002-2006	Organization for Human Brain Mapping
2004-present	Pavlovian Society
2006	Cognitive Neuroscience Society
2012-present	Research Society on Alcoholism
2012-present	International Society for Behavioural Neuroscience

RECOGNITION

Awards and Honors

1993	National Dean's List Nominee
1998	Human Brain Mapping Poster voted in top 10%
1999-2001	UWM Advanced Opportunity Program Fellowship
1999-2004	AGSIP (Association of Graduate Students in Psychology) Travel Award (x5)
2000-2005	Bill and Melinda Gates Foundation Scholarship
2003	Organization of Human Brain Mapping Travel Award
2005	UWM Graduate Research Symposium Presentation Award – <i>First Place</i>

Invited Talks

Response versus Stimulus-Based Analysis of Functional Brain Images in Human Fear Conditioning. *Graduate Research Symposium*, University of Wisconsin-Milwaukee, Milwaukee, WI. October, 1998.

The Challenges of a Graduate Education from a Student Perspective. *Bill and Melinda Gates Millennium Scholars Leadership Seminar for Graduate Students*, Chantilly, VA. January, 2001.

Navigating Your Campus from a Student Perspective. *Bill and Melinda Gates Millennium Scholars Leadership Conference*, Los Angeles, CA. November, 2002.

Multicultural Panel Discussion (Asian Americans). *Professional Development and Issues in Clinical Psychology*, University of Wisconsin-Milwaukee, Milwaukee, WI. February, 2003.

Human Pavlovian Fear Conditioning and Awareness: An Event-Related fMRI Study. *Medical College of Wisconsin Fall Neuroscience Student Presentations*, Milwaukee, WI. September 2003

fMRI of Human Pavlovian Fear Conditioning. *Neuroscience and Physiology Brown Bag*, University of Wisconsin-Milwaukee, Milwaukee, WI. November 2004

Functional Neuroimaging of Fear Learning in Humans. *Graduate Research Symposium*, University of Wisconsin-Milwaukee, Milwaukee, WI. April, 2005.

Functional MRI of Human Eyeblick Conditioning. *Sensorimotor Research Day*, Johns Hopkins University School of Medicine, Baltimore, MD. December, 2009.

Functional MRI of Human Neural Substrates Important for CS-US Contingency Awareness during Delay and Trace Eyeblick Conditioning. *Society for Neuroscience Nanosymposium*, San Diego, CA. November, 2010.

Neural Substrates of Human Associative Learning. *Neuroscience Seminar*, West Virginia University, Morgantown, WV. December, 2010

Functional MRI of Human Classical Conditioning. *Clinical Neuroscience Seminar*, Johns Hopkins University School of Medicine, Baltimore, MD. March, 2011.

Neural Substrates Underlying Human Classical Conditioning. *Stress and Motivated Behavior Institute Seminar*, U.S. Department of Veteran Affairs, East Orange, NJ. June 2012.

Functional MRI Investigations of Human Classical Conditioning. *International Society for Behavioural Neuroscience Annual Meeting*, Half Moon Bay, CA. June 2012.

Functional MRI and tDCS Investigations of Human Eyeblick Conditioning. *International Graduate School of Neuroscience Conference*, Ruhr-University Bochum, Germany. March 2013.

Impaired Human Eyeblick Conditioning Associated with Aging and Alcohol Abuse. *NeuroAIDS Seminar*, Johns Hopkins University School of Medicine, Baltimore, MD. May, 2013.

A History of Eyeblick Classical Conditioning as a Model of Learning. *International Society for Behavioural Neuroscience Annual Meeting*, Montreal, Canada. June 2013.

Neuroimaging and Neuromodulation of Human Eyeblick Conditioning Circuitry. *Puerto Rico Chapter of the Society for Neuroscience Annual Conference*, Ponce, Puerto Rico. December 2013.

Neural Mechanisms of Learning and Memory in Humans. *Center for Cognitive Medicine Seminar*, Vanderbilt University, Nashville, TN. January 2014.

Neural Mechanisms of Learning and Memory in Humans. *Department of Psychology Colloquium*, Wright State University, Dayton, OH. April 2014.

A Functional MRI Study of the Effects of Prenatal Alcohol Exposure on Eyeblick Classical Conditioning in Children. *International Society for Behavioural Neuroscience Annual Meeting*, Amsterdam, Netherlands. June 2014.

Functional Neuroanatomy of Human Eyeblick Conditioning. *Cognitive and Behavioral Neuroscience Colloquium*, Stony Brook University, Stony Brook, NY. February 2015.

Functional Neuroanatomy of Human Eyeblick Conditioning. *The Institute for Medical Psychology and Behavioral Neurobiology Colloquium*, University of Tübingen, Germany. March 2015.

Transcranial Direct Current Stimulation and Human Eyeblick Conditioning. *Section on Neurobiology of Fear and Anxiety Colloquium*, National Institute of Mental Health, Bethesda, MD May 2015

Neural Mechanisms Underlying Human Classical Conditioning. *Department of Psychology Colloquium*, Auburn University, Auburn, AL May 2015.

Human Eyeblink Conditioning: Basic Neural Mechanisms and Clinical Relevance. *Special Lecture sponsored by the Office of Graduate Studies and Research*, Texas A&M-*Texarkana*, TX October 2015