

KEVIN DAVIS

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Education **University of Miami**

Miami, Florida

2018-Present. Medical Scientist Training Program

Brigham Young University

Provo, Utah

2009–2015. B.S. Neuroscience. GPA: 3.8/4.0

Research Experiences **University of Iowa**

Iowa City, Iowa

2016–2018. Dr. Huxing Cui. Research Projects: Lateral hypothalamic regulation of blood pressure; behavioral and metabolic characterization of eating disorders associated with HDAC4^{A778T} mutation in mice

2015–2016. Dr. Andrew Pieper. Research Projects: Axonal degradation in mouse models of traumatic brain injury; neuroprotective properties of compound P7C3

Brigham Young University

Provo, Utah

2013–2015. Dr. Steven Charles. Research Projects: Control of redundant movements of the wrist and forearm; minimum-jerk trajectories applied to rotational movements of the wrist

2014–2015. Dr. Jonathan Wisco. Research Project: Developmental differences in putative pheromone-induced brain activity in male and female adults

Center for Sensorimotor Neural Engineering

Seattle, Washington

2014. Dr. Kat Steele. Research Projects: Long-term electromyography gait analysis in patients with cerebral palsy

Publications **Published**

2018. Dorman G, Davis KC, Peaden AW, and Charles SK. Control of Redundant Wrist and Forearm Rotations. *Journal of Neurophysiology*

2016. M. Lutter, M. Z. Khan, K. Satio, K. C. Davis, I. J. Kidder, L. McDaniel, B. W. Darbro, A. A. Pieper, and H. Cui, "The Eating-Disorder Associated HDAC4(A778T) Mutation Alters Feeding Behaviors in Female Mice.," *Biol. Psychiatry*, pp. 1–8.

2016. T. C. Yin, J. R. Voorhees, R. M. Genova, K. C. Davis, A. M. Madison, J. K. Britt, C. J. Cintron-Perez, L. McDaniel, M. M. Harper, and A. A. Pieper, "Acute Axonal Degeneration Drives Development of

Cognitive, Motor, and Visual Deficits after Blast-Mediated Traumatic Brain Injury in Mice,” eNeuro, vol. 3, no. 5, p. e0220–16.2016.

Awards Grants

2014. Brigham Young University Magnetic Resonance Imaging Research Facility Grant

**Presentations
& Abstracts**

Diabetes Research Week *Iowa City, IA*

2018. Poster Presentation. Celastrol reduces obesity in MC4R deficiency and stimulates sympathetic nerve activity affecting cardiovascular function. K. C. Davis, K. Siato, D. Morgan, B. A. Toth, H. Cui

Society for Neuroscience 2017 *Washington D.C.*

2017. Poster Presentation. Behavioral and metabolic characterization of eating disorder associated HDAC4-A778-T mutant mice. K.C. Davis, S. R. Rodeghiero, K. Saito, B. A. Ahlers, H. Cui.

Iowa Research Week *Iowa City, IA*

2017. Poster Presentation. Anti-obesity effect of celastrol requires leptin signaling but is independent of the central melanocortin system. K. C. Davis, K. Saito, E. N. Rodriguez, B. Toth, E. Martinez, H. Cui

Pharmacology Retreat *Coralville, IA*

2016. Poster Presentation. Characterization of the HDAC4^{A778T} Mouse. K. C. Davis, M. Z. Khan, L. McDaniel, B. W. Darbro, A. A. Pieper, M. Lutter, H. Cui.

UW Research Symposium *Seattle, WA*

2014. Poster Presentation. Long-Term acquisition of EEG signals in daily activities. K. C. Davis. B. Shuman, K. Rumberger, K. M. Steele.

Utah Neuroscience Symposium *Snowbird, UT*

2013. Poster Presentation. Control of redundant wrist movements. G. M. Dorman, K. C. Davis, A. W. Peadan, S. K. Charles

**Teaching
Experiences**

Brigham Young University *Provo, Utah*

2013–2015. Dr. Jonathan Wisco. Elementary Anatomy Laboratory Teaching Assistant

	University of Utah	<i>Salt Lake City, Utah</i>
	2014. Dr. Jonathan Wisco. University of Utah School of Medicine anatomy laboratory short-term teaching assistant	
Volunteer Service	Iowa City Free Medical Clinic	<i>Iowa City, Iowa</i>
	2016–2018. Supervisor: Jennifer Beltran. Patient guide	
	University of Iowa Hospitals and Clinics	<i>Iowa City, Iowa</i>
	2016. Supervisor: Jaison Marks. Second stage recovery	
	2015. Supervisor: Jaison Marks. Orthopedic Clinic	
	Habitat for Humanity	<i>Iowa City, Iowa</i>
	2015–2016. Local community builds	
	Conversation Partners	<i>Iowa City, Iowa</i>
	2015–2016. Korean Conversation Partner	
	Horizon Hospice Services	<i>Provo, Utah</i>
	2015. Supervisor: Tracy Ruiz	
	Utah Valley Regional Hospital	<i>Provo, Utah</i>
	2015. Supervisor: Cheryl Call. Emergency Department	
	2013. Neuro shock trauma and Intensive care unit	
	Utah Special Olympics	<i>Provo, Utah</i>
	2013–2014. Supervisor: Michael Blomfield. Basketball. Soccer. Softball	
	The Church of Jesus Christ of Latter-Day Saints	<i>Hungary</i>
	2010–2012. Mission President: Gary S. Baughman. Leadership Roles: Assistant to the President	
Previous Employment	Brigham Young University Print and Mail Services	<i>Provo, Utah</i>
	2012–2013. Employer: Zack Cameron. Junior Web and Software Developer	
	Devila Web Design	<i>Phoenix, Arizona</i>
	2007–2009. Employer: Ricardo Devila. Freelance Web Developer	

Suddenly Slimmer Day Spa*Phoenix, Arizona*

2007–2009. Employer: Luzivone Damaceno. Web Developer and Database administrator.

Technical Skills**Life Sciences**

PCR/qPCR, Western Blot, Immunohistochemistry, Mouse dissection, Mouse Stereotaxic Surgery, Optogenetics, Behavioral Assays

Computational

NodeJS, Javascript, MatLab, C/C++, Bash, Assembly. Familiar: PHP, SQL, Python, Networking Systems

Software

Microsoft Office, MatLab, GraphPad Prism

References**Dr. Huxing Cui**

Assistant Professor
Department of Pharmacology
University of Iowa
51 Newton Road, BSB 2-300
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(319) 335-6954
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Dr. Andrew Pieper

Professor
Department of Psychiatry
University of Iowa
195 Newton Road, PBDB 1318
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Dr. Steven Charles

Associate Professor
Department of Mechanical Engineering
Brigham Young University
435D CTB
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(801) 422-7369
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Dr. Jonathan Wisco

Associate Professor

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