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Undergraduate Studies

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EDUCATION

- Ph.D. Biomedical Engineering, Johns Hopkins University School of Medicine, Baltimore MD,
December 1997
B.S.E. Engineering Science, University of Michigan, Ann Arbor MI, May 1990

ACADEMIC EXPERIENCE

- 6/14 – present Associate Dean of Undergraduate Studies, University of Toledo College of
Engineering, Toledo OH
8/06 – present Associate Professor, Department of Bioengineering, University of Toledo College
of Engineering, Toledo OH
9/01 – 6/15 Undergraduate Program Director, Department of Bioengineering, University of
Toledo College of Engineering, Toledo OH
11/00 – 7/06 Assistant Professor, Department of Bioengineering, University of Toledo College
of Engineering, Toledo OH
7/99 – 10/00 Postdoctoral Fellow, Department of Surgery, Otolaryngology - Head and Neck
Surgery, University of North Carolina School of Medicine, Chapel Hill NC
10/97 – 6/99 Postdoctoral Fellow, Department of Otolaryngology - Head and Neck Surgery,
Johns Hopkins University School of Medicine, Baltimore MD
7/90 – 9/97 Graduate Research/Teaching Assistant, Department of Biomedical Engineering,
Johns Hopkins University School of Medicine, Baltimore MD

NON-ACADEMIC EXPERIENCE

- 5/87 - 8/89 Engineering Intern, Automotive Safety Engineering, Environmental Activities
Staff, General Motors Corporation, Warren MI

PROFESSIONAL REGISTRATIONS

not applicable

PROFESSIONAL ORGANIZATIONS

- ◆ The Society for Neuroscience (1996)
- ◆ The Association for Research in Otolaryngology (1994)
- ◆ The American Physiological Society (2003)
- ◆ Biomedical Engineering Society (2007)

HONORS AND AWARDS

- ◆ Christa McAuliffe Excellence in Teacher Education Award, August 2017
- ◆ President's Award for Excellence in Grantsmanship, University of Toledo, Spring 2017
- ◆ College of Engineering Best Teacher Award, University of Toledo, Spring 2006
- ◆ Nomination for University Teacher of the Year, University of Toledo, 2003-2004
- ◆ Bioengineering Professor of the Year, University of Toledo, 2001-2002
- ◆ Nomination for University Advisor of the Year, University of Toledo, 2001-2002
- ◆ National Science Foundation Fellow, Johns Hopkins University, July 1990

- ◆ Abel Wolman Fellow, Johns Hopkins University, September 1990
- ◆ Departmental Honors, Mechanical Engineering and Applied Mechanics, University of Michigan, April 1990
- ◆ Tau Beta Pi Engineering Honor Society, Michigan Gamma Chapter, April 1989
- ◆ James B. Angell Scholar, University of Michigan, April 1988

SERVICE ACTIVITIES

University and Community Service

Institutional Animal Care and Use Committee, September 2004 – present

vice-chair, September 2006 - January 2008

Appletree Nursery School Board of Trustees, 2005 – 2014

Faculty Senate, Fall 2010 – Spring 2016, executive committee, Fall 2014 – Spring 2016

Presidential Scholarship Committee, Fall 2008 - present

University Assessment Committee, Fall 2010 - present

PUBLICATIONS

Paprzycki, P., Tuttle, N., Czerniak, C. M., Molitor, S., Kaderavek, J., Mendenhall, R. (2017). The impact of an inquiry science instruction on literacy and mathematics achievement in PreK-3 classrooms. *Journal of Research in Science Teaching*, in press.

Tuttle, N., Mentzer, G. A., Strickler-Eppard, L., Bloomquist, D., Molitor, S., Kaderavek, J., Czerniak, C. M. (2017). Exploring how families do science together: Adult-child interactions at community science events. *School Science and Mathematics*, 117:175-182.

Tuttle, N., Kaderavek, J. N., Molitor, S., Czerniak, C. M., Johnson-Whitt, E., Bloomquist, D., Namatovu, W., Wilson, G. (2016). Investigating the impact of NGSS-aligned professional development on PK-3 teachers' science content knowledge and pedagogy. *Journal of Science Teacher Education*, 27:717–745.

Reinhart, M., Bloomquist, D., Strickler, L., Czerniak, C. C., Moser, A., Kaderavek, J. N., & Molitor, S. C. (2015). Taking science home: Connecting schools and families through early childhood science activity packs. *School Science and Mathematics*, 116:3-16.

Kaderavek, J. N., North, T., Rotshtein, R., Dao, H., Liber, N., Milewski, G., Molitor, S. C., & Czerniak, C. M. (2015). SCIENCE: creation & pilot implementation of an NGSS-based instrument to evaluate early childhood science teaching. *Studies in Educational Evaluation* 45:27-36.

Qiu X., Dao H., Heston A., Garcia, K.M., Sangal A., Wang M., Dowling A.R., Faulkner, L.D., Molitor, S.C., Elias C.F., Hill J.W. (2015) Insulin and leptin signaling interact in the Kiss1 neuron during the peripubertal period. *PLoS One* 10(5): DOI: 10.1371/journal.pone.0121974.

Shimano T, Fyk-Kolodziej B, Mirza N, Asako M, Tomoda K, Bledsoe S, Pan ZH, Molitor S, Holt AG. (2013) Assessment of the AAV-mediated expression of channelrhodopsin-2 and halorhodopsin in brainstem neurons mediating auditory signaling. *Brain Research* 1511:138-152.

Klingbeil, N., Rattan, K., Raymer, M., Reynolds, D., Mercer, R., Molitor, S. and Randolph, B (2011) The Wright State Model for Engineering Mathematics Education: Highlights from a CCLI Phase 3 Initiative, Volume 2. *Proceedings ASEE Annual Conference & Exposition*.

PROFESSIONAL DEVELOPMENT ACTIVITIES

Blackboard workshop, March 2011, Banner ODS training, February 2008