



Professor, Department of Psychology
Wabash College, 301 W. Wabash Ave., Crawfordsville, IN 47933
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- Eye Institute
 - Research Areas: Molecular Genetic and Psychophysical Study of Color Vision
 - Advisors: Jay and Maureen Neitz
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- Primary Specialization: Psychology
 - Secondary Specialization: Neuroscience
 - Dissertation Title: The Mechanisms Underlying Color Vision
 - Advisor: Karen R. Dobkins
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- Thesis Title: Pitch Class Circle Orientation Alignment Between the Tritone and Semitone Paradoxes
 - Advisor: Diana Deutsch
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- Major: Biopsychology
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- July 2021 present
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- July 2018 – June 2021
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- 2016 – 2020
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- July 2013 – June 2021
 - Courses taught in addition to those listed under Assistant Professor position: Enduring Questions (freshman colloquium), Health Psychology, Sensory Transduction, Senior Neuroscience Capstone
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- July 2007 – June 2013
 - Undergraduate courses taught: Freshman Tutorials (Color; Science & Pseudoscience), Introductory Psychology, Sensation & Perception, Research in Sensation & Perception, Cognitive Neuropsychology, Principles of Neuroscience, Research Methods & Statistics, Literature Review, The Cognitive Neuroscience of Music, Senior Psychology Capstone, Cultures & Traditions (sophomore colloquium)

- August 2006 – June 2007
- Undergraduate courses taught: Sensation & Perception, The Cognitive Neuroscience of Music, Introductory Psychology

- July 2003 – June 2004
- Undergraduate courses taught: Color (an interdisciplinary sophomore seminar course), Sensory Neuroscience, Sensory Psychophysics Lab, Introductory Neuroscience Lab
- Supervised research students.

- September 2002 – May 2003
- Undergraduate course taught: Introductory Psychology

February 2002

- August 1999, 2000, July 2001
- Undergraduate course taught: Introduction to Statistics

- Spring 2000
- Undergraduate course taught: Statistics

- Fall 1999
- Graduate course taught: Color

September 1995 – December 2001

- Cognitive Psychology; Introduction to Statistics; Introduction to Psychology; Physiological Psychology; Drugs and Behavior; Introduction to Principles of Behavior; Theories of Personality; Abnormal Psychology; Psychology and the Arts.
- Presented occasional lectures, prepared and led discussion sections, wrote and graded exams, held office hours.

- Hosted _____, Sept. 2013 & 2014. This is a one day conference for undergraduates to share their research, plus faculty and student break out sessions, and a keynote speaker.

- _____ and _____, Wabash College, 2008 present

- _____ (molecular genetics and visual psychophysics), The Medical College of Wisconsin, Eye Institute (March 2002 – June 2003 and July 2004 – July 2006).

- _____ (visual psychophysics), Oberlin College, Neuroscience Department, July 2003 – June 2004.

- _____ (visual and auditory psychophysics), UC San Diego, Psychology Department, September 1995 – February 2002.

- _____ (neuropharmacology and behavioral neuroscience), Abbott Laboratories (Abbott Park, IL), Pharmaceutical Products Division, September 1992 – July 1995.

- _____, The Ohio State University (Columbus, OH), Medical School, Department of Biochemistry. Summer 1992.
- _____ (face recognition), Oberlin College, Psychology Department, February May 1992.
- _____ (musical Stroop), Oberlin College, Psychology Department, September 1991 May 1992.
- _____, Syntex Pharmaceuticals (Palo Alto, CA), Institute of Pharmacology, Department of Neuroscience, Summer 1990.
- _____, Syntex Pharmaceuticals (Palo Alto, CA), Department of Immunology, January 1990.
- National Science Foundation, grant number BCS1753808, 6/1/18 – 7/31/21. *RUI: Stimulus Characteristics Influencing Non Cardinal Color Mechanisms*. This project will use visual psychophysics to test the neural mechanisms underlying our ability to perceive non cardinal colors. Although there is ample evidence that such mechanisms exist in the isoluminant plane of color space, there is less strong evidence for the two planes with luminance input (red green/luminance and tritan/luminance). Thus, these latter two planes are a focus of the proposed studies. Non cardinal mechanisms will be measured by the ratio of the contrast thresholds to detect the stimuli when embedded in aligned noise (same color) versus when embedded in orthogonal noise (e.g., red/green stimuli embedded in tritan noise). Stimulus attributes such as size, contrast, and gratings vs. full field will be manipulated. In addition, perceptual learning will be used to try to strengthen these non cardinal mechanisms.
- Great Lakes College Association New Directions Initiative. 2013 2014. I was awarded a grant to incorporate diversity into a new course on Health Psychology. Wabash students tend not to advance much on diversity awareness, according to the National Survey of Student Engagement (NSSE). I tested diversity awareness at the beginning and end of the course, and in a control group, a section of Introductory Psychology without a specific diversity emphasis.
- Great Lakes College Association Pathways to Learning Collegium Study of Teaching and Learning Grant. 2009 2011. In this grant I examined how the use of biographies and autobiographies aids in student learning, memory, and enjoyment of a Sensation and Perception course. The books were supplemented with lectures on the concepts addressed in the books and with discussions of scientific articles related to the books. Sample books include *The Island of the Colorblind* (Oliver Sacks), *The Emperor of Scent* (Chandler Burr), and *Rebuilt: My Journey Back to the Hearing World* (Michael Chorost). This project resulted in the 2011 *Journal of Undergraduate Neuroscience Education* paper listed under “publications” below.

- Ruth L. Kirschstein National Research Service Award (post doctoral fellowship), National Eye Institute, National Institutes of Health, September 2004 – July 2006. F32 EY014789 *Genetic Loci Associated with L:M Cone Ratio Variation*. Although the eye contains three types of cone, long wavelength sensitive (L), medium wavelength sensitive (M), and short wavelength sensitive (S), the L and M cones comprise over 90% of our cones. In the fovea, the portion of the retina used for high acuity tasks such as reading, the L:M cone ratio varies tremendously, even among people with normal color vision. The cause of this variability is presently unknown, however evidence suggests that it is inherent to the genetic mechanism that regulates expression of the L and M pigment genes, which reside on the X chromosome. I tested the hypothesis that DNA sequence polymorphisms at the X chromosome visual pigment gene locus play a role in determining the L:M cone ratio. I sequenced regions of the L/M pigment gene array in DNA from subjects with known L:M cone ratios. Sequence differences were analyzed for correlation with cone ratio. Understanding how the L:M cone ratio is determined has important implications for understanding the neural circuitry for color vision. This project resulted in the Gunther, Neitz, & Neitz (2008) paper listed under “publications” below.
- Fight for Sight Graduate Student Fellowship, 1998.
- Association for Research in Vision and Ophthalmology/National Eye Institute Fellowship Travel Grant, 1997.
- Independent Research Award, Oberlin College Psychology Department, 1992 Musical Stroop Experiment.
- Human Subjects/Institutional Review Board Committee, Wabash College, 2008 2018; chair 2019 present (except for one year of sabbatical)
- Council on Undergraduate Research: Psychology Division Councilor 2010 present (4 elected terms); Psychology Division Secretary 2011 2020; Psychology Division Chair 2020 present; Diversity, Equity and Inclusion Committee member and secretary 2018 present
- New Faculty Orientation Leader, 2015 2020
- Pre Health Committee, Wabash College, 2014 2018
- McLain McTurnan Arnold Research Scholar granting committee, 2014 2016, chair 2016
- Wabash College team member to the Great Lakes College Association’s Undergraduate Research in the STEM fields workshop through the Council on Undergraduate Research, 2012 2014
- Admissions Committee, Wabash College, 2009 2013, Chair 2010 2013
- Lilly Steering Committee, Wabash College (an internal granting mechanism), 2008 2009
- Coordinator of the Social Sciences Colloquium, Wabash College, 2008 present (except for two sabbatical years)
- Editorial Board, Brain & Cognition, 2008 present
- Occasional reviews for: Journal of the Optical Society of America A, Journal of Vision, Visual Neuroscience, Vision Research, Attention Perception & Psychophysics, i Perception, Psychonomic Bulletin & Review, Optics Express, CUR Quarterly, Multisensory Research, National Science Foundation
- Reviewer, Council on Undergraduate Research Posters on the Hill abstracts, 2010 2016
- St. Mary’s College of Maryland Neuroscience Award Committee. 2007
- Post doctoral Advisory Council Member. The Medical College of Wisconsin. 2005 2006.

- 2012 mGluR's (Midwest/Great Lakes Undergraduate Research Symposium in Neuroscience), The College of Wooster, Wooster, OH. Co led (with Meagen Pollock of Wooster) a faculty session on the Council of Undergraduate Research's *Characteristics of Excellence in Undergraduate Research* document.
- 2012 Psychology Department, University of Nevada, Reno. What Where's Waldo Can Tell Us About Visual Anatomy.
- 2011 Psychology Department, DePauw University, Greencastle, IN. What Where's Waldo Can Tell Us About Visual Anatomy.
- 2005 Basic Principles of Visual Biology, graduate level course. Cell Biology, Neurobiology, and Anatomy, The Medical College of Wisconsin.
- 2005 Vision Research Forum. Cell Biology, Neurobiology, and Anatomy, The Medical College of Wisconsin. Color Vision: From Behavior to Genes.
- 2004 Lakeshore Vision Conference, The Medical College of Wisconsin. Progress Report on the Search for the Genetic Loci of the L:M Cone Ratio.
- 2002 Lakeshore Vision Conference, The Medical College of Wisconsin. Preliminary Results in the Search for a Genetic Correlate of L:M Cone Ratio.
- 2002 Department of Ophthalmology and Visual Sciences, University of Chicago. Induceability of Luminance and Brightness.
- 2001 Department of Cell Biology, Neurobiology, and Anatomy, The Medical College of Wisconsin. Consequences of Asymmetries in the Relative Numbers of L versus M Cones.
- 2000 Interdisciplinary PhD Course, Cognitive Sciences Department, UC San Diego. Why are Colors Colored?
- 1998 Canyon Quilters of San Diego, San Diego, CA. Why are Colors Colored?
- Association for Psychological Science
 - Council on Undergraduate Research
 - International Colour Vision Society
 - Optica (formerly Optical Society of America)
 - Vision Sciences Society
 - Society for Neuroscience
 - Faculty for Undergraduate Neuroscience
 - Society for the Teaching of Psychology
- (In Revision) Non cardinal color mechanisms assessed by cortically stimulating gratings versus LGN stimulating spots. *Journal of Vision*
- (In Revision) , Sikorski, T., Gourley, B.L., & Yau, E.O.Y. Diversity and inclusion in undergraduate research, scholarship, and creative activity (URSCA): Benefits and recommendations. *Scholarship and Practice of Undergraduate Research*.
- (In Press) Tompkins, N., & Color vision deficiency and teaching electromagnetism. *The Physics Teacher*.
- 2020 , & McKinney, M.R. Poor peripheral binding depends in part on stimulus color. *Attention, Perception, & Psychophysics*, 82(7), 3606-3617.

- 2017 Watson, Q.J. & Trombones elicit bitter more strongly than do clarinets: A partial replication of three studies of Crisinel and Spence. *Multisensory Research*, 30, 321 – 335.
- 2016 . & Downey, C.O. Influence of stimulus size on revealing non cardinal color mechanisms. *Vision Research*, 127, 57 – 66.
- 2014 Non cardinal color perception across the retina: Easy for orange, hard for burgundy and sky blue. *Journal of the Optical Society of America A*, 31(4), A274 – A282.
- 2014 Non cardinal color mechanism strength differs across color planes but not across subjects. *Journal of the Optical Society of America A*, 31(4), A293 – A302.
- 2012 Dalhaus, R.N., III (W'11), & A tritan *Waldo* would be easier to detect in the periphery than a red/green one: Evidence from visual search. *Journal of the Optical Society of America A*, 29(2), A298 – A305.
- 2011 The use of “non fiction novels” in a sensation and perception course. *Journal of Undergraduate Neuroscience Education*, 10(1), A14 – A23.
- 2008 , Neitz, J., & Neitz, M. Nucleotide polymorphisms upstream of the X chromosome opsin gene array tune L:M cone ratio. *Visual Neuroscience*, 25(3), 265 – 271.
- 2007 Baraas, R.C., Carroll, J., , Chung, M., Williams, D.R., Foster, D.H., & Neitz, M. Adaptive optics retinal imaging reveals S cone dystrophy in tritan color vision deficiency. *Journal of the Optical Society of America A*, 24(5), 1438 – 1447.
- 2006 ., Neitz, J., & Neitz, M. A novel mutation in the short wavelength sensitive cone pigment gene associated with a tritan color vision defect. *Visual Neuroscience*, 23(3 4), 403 – 409.
- 2005 & Dobkins, K.R. Induction effects for heterochromatic brightness matching, heterochromatic flicker photometry, and minimally distinct border: Implications for the neural mechanisms underlying induction. *Journal of the Optical Society of America A*, 22(10), 2182 – 2196.
- 2003 & Dobkins, K.R. Independence of mechanisms tuned along cardinal and non cardinal axes of color space: Evidence from factor analysis. *Vision Research*, 43, 683 – 696.
- 2002 & Dobkins, K.R. Individual differences in chromatic (red/green) contrast sensitivity are constrained by the relative number of L versus M cones in the eye. *Vision Research*, 42(11), 1367 – 1378.
- 2000 Dobkins, K.R., , Peterzell, D.H. What covariance mechanisms underlie green/red equiluminance, luminance contrast sensitivity, and chromatic (green/red) contrast sensitivity? *Vision Research*, 40, 613 – 628.
- 1999 Kowaluk, E.A., Kohlhaas, K.L., Bannon, A., , Lynch, J.J. III, Jarvis, M.F. Characterization of the effects of adenosine kinase inhibitors on acute thermal nociception in mice. *Pharmacology, Biochemistry and Behavior*, 63(1), 83 – 91.

- 1998 Holladay, M.W., Bai, H., Li, Y., Lin, N.H., Daanen, J.F., Ryther, K.B., Wasicak, J.T., Kincaid, J.F., He, Y., Hettinger, A.M., Huang, P., Anderson, D.J., Bannon, A.W., Buckley, M.J., Campbell, J.E., Donnelly Roberts, D.L., , Kim, D.J., Kuntzweiler, T.A., Sullivan, J.P., Decker, M.W., & Arneric, S.P. Structure activity studies related to ABT 594, a potent nonopioid analgesic agent: Effect of pyridine and azetidine ring substitutions on nicotinic acetylcholine receptor binding affinity and analgesic activity in mice. *Bioorganic and Medicinal Chemistry Letters*, 8(19), 2797 – 2802.
- 1997 Decker, M.W., Bannon, A.W., Curzon, P., , Brioni, J.D., Holladay, M.W., Lin, N.H., Li, Y., Daanen, J.F., Buccafusco, J.J., Prendergast, M.A., Jackson, W.J., Arneric, S.P. ABT 089 [2 methyl 3 (2 (s) pyrrolidinylmethoxy) pyridine dihydrochloride]: II. A novel cholinergic channel modulator with effects on cognitive performance in rats and monkeys. *Journal of Pharmacology and Experimental Therapeutics*, 283, 247 – 258.
- 1996 Dornan, W.A., McCampbell, A.R., Tinkler, G.P., Hickman, L.J., Bannon, A.W., Decker, M.W., & Comparison of site specific injections into the basal forebrain on water maze and radial arm maze performance in the male rat after immunolesioning with 192 IgG saporin. *Behavioural Brain Research*, 82, 93 – 101.
- 1996 Bannon, A.W., Curzon, P., , & Decker, M.W. Effects of intraseptal injection of 192 IgG saporin in mature and aged Long Evans rats. *Brain Research*, 718, 25 – 36.
- 1995 Bannon, A.W., , & Decker, M.W. Is epibatidine really analgesic? Dissociation of the locomotor activity, temperature and analgesic effects of (\pm) epibatidine. *Pharmacology, Biochemistry and Behavior*, 51, 693 – 698.
- 1995 Bannon, A.W., , Decker, M.W., & Arneric, S.P. The influence of BayK8644 treatment on (\pm) epibatidine induced analgesia. *Brain Research*, 678, 244 – 250.
- 2021 Temores, I., Naylor, A., & Effect of spots versus gratings on non cardinal color perception: Experiment 2. *Optical Society of America (Optica), Fall Vision Meeting*, virtual (due to COVID pandemic).
- 2021 Tompkins, N., & Color vision deficiency and educational diagrams. *Ides of August*, Wabash College, Crawfordsville, IN.
- 2021 , Sikorski, T., Gourley, B.L., & Yau, E.O.Y. Diversity and inclusion in undergraduate research, scholarship, and creative activity (URSCA): Benefits and recommendations. *Ides of August*, Wabash College, Crawfordsville, IN.
- 2019 , Dunigan, C., Powell, C., & Rodriguez, R. Cortically stimulating gratings reveal non cardinal colors better than do LGN stimulating spots. *International Colour Vision Society*, Riga, Latvia.
- 2019 , Dunigan, C., Powell, C., & Rodriguez, R. Cortically stimulating gratings reveal non cardinal colors better than do LGN stimulating spots. *Vision Sciences Society*, St. Pete Beach, FL.
- 2018 Rodriguez, J., Dunigan, C., Powell, C., & Cortically stimulating gratings reveal non cardinal colors better than do LGN stimulating spots. *Optical Society of America, Fall Vision Meeting*, University of Nevada, Reno, NV.

- 2018 Dunigan, C., Rodriguez, J., Powell, C. & Cortically stimulating gratings reveal non cardinal colors better than do LGN stimulating spots. *Vision Science Day*, Indiana University School of Optometry, Bloomington, IN.
- 2017 Organizing PSY101 Around Broad Questions, not Sub Disciplines. *Stanford Psychology One conference*, Palo Alto, CA.
- 2016 Powell, C.J. & Full field Stimuli vs. Gratings to Reveal Non Cardinal Colors. *Faculty for Undergraduate Neuroscience session, Society for Neuroscience*, San Diego, CA.
- 2016 An integrated scaffolded research experience for psychology majors. *Council on Undergraduate Research*, Tampa, FL.
- 2015 Improving diversity awareness through a Health Psychology course. *Ides of August*, Wabash College, Crawfordsville, IN.
- 2015 , & Downey, C.O. Non cardinal color mechanisms: Stimulus size matters. *International Colour Vision Society*, Sendai, Japan.
- 2015 , & Owens, J.K. Brightness induction reveals changes in neural response time to changes in stimulus contrast. *Vision Sciences Society*, St. Pete Beach, FL.
- 2014 Downey, C.O., & Non cardinal color mechanisms: Stimulus size matters. *Optical Society of America, Fall Vision Meeting*, University of Pennsylvania, Philadelphia, PA.
- 2014 , Brown, J., Porter, L., McKinney, C., & Foote, R. URSC at Wabash. *Council on Undergraduate Research Consortial Meeting of Great Lakes College Association College STEM Faculty*, Washington, DC.
- 2013 , Bost, P., Horton, R.S., Olofson, E.L., & Schmitzer Torbert, N. An integrated scaffolded research experience for psychology majors. *Council on Undergraduate Research Workshop, International Society for the Scholarship of Teaching and Learning*, Raleigh, NC.
- 2013 Non cardinal mechanism visual search performance parallels cardinal mechanism performance across the retina, but may be weaker in the non isoluminant planes of color space. *International Colour Vision Society*, Winchester, England.
- 2013 Non cardinal mechanism visual search performance parallels cardinal mechanism performance across the retina, but may be weaker in the non isoluminant planes of color space. *Vision Sciences Society*, Naples, FL.
- 2012 Wu, Y.C., Goodrich, L.C., Ranschaert, D.S., & L:M cone ratio affects red/green visual search for low contrast serial searches but not for high contrast popout searches. *mGluR's (Midwest/Great Lakes Undergraduate Research Symposium in Neuroscience)*, The College of Wooster, Wooster, OH.
- 2011 & Dalhaus, R.N., III. Red/green color naming declines in the periphery. "Blue"/ "yellow" does not. What happens in visual search? *International Colour Vision Society*, Kongsberg, Norway.
- 2011 & Dalhaus, R.N., III Red/green color naming declines in the periphery. "Blue"/ "yellow" does not. What happens in visual search? *Vision Sciences Society*, Naples, FL.

- 2010 Dalhaus, R.N., III, & [redacted] Red/green color naming declines in the periphery. "Blue"/ "yellow" does not. What happens in visual search? *Optical Society of America, Fall Vision Meeting*, University of Rochester, Rochester, NY, abstract published in *Journal of Vision*, 11(11): 359; doi: 10.1167/11.11.359
- 2010 Dalhaus, R.N., III, & [redacted] Red/green color naming declines in the periphery. "Blue"/ "yellow" does not. What happens in visual search? *mGluR's (Midwest/Great Lakes Undergraduate Research Symposium in Neuroscience)*, Ohio Wesleyan University, Delaware, OH.
- 2007 Neitz, M., [redacted], & Neitz, J. How nucleotide polymorphisms upstream of the X chromosome opsin gene array tune L:M cone ratio. *International Colour Vision Society*, Belem, Brazil.
- 2007 Baraas, R.C., Carroll, J., [redacted], Chung, M., Williams, D.R., Foster, D.H., & Neitz, M. S cone dystrophy in tritan color vision deficiency revealed by adaptive optics retinal imaging. *Association for Research in Vision and Ophthalmology Abstr.* #3180.
- 2006 Baraas, R.C., Carroll, J., [redacted], Chung, M., Chen, L., Williams, D.R., Neitz, M., & Foster, D.H. A progressive form of tritanopia revealed with adaptive optics retinal imaging. *Engineering the Eye II*.
- 2006 [redacted], Neitz, M., & Neitz, J. L:M cone contribution to heterochromatic flicker photometry. *Association for Research in Vision and Ophthalmology Abstr.* #3695.
- 2005 [redacted], Neitz, J., & Neitz, M. A novel mutation in the short wavelength sensitive cone pigment gene associated with a tritan colour vision defect. *International Colour Vision Society*, Lyon, France.
- 2004 [redacted], Bojar, J.A., Harrison, G.L.A., Shashidhar, V.M., Pawar, S.D., Neitz, J., Neitz, M. The role of relaxed natural selection against colorblindness in producing extreme variation in X chromosome photopigment gene number and sequence among individuals with normal color vision. *Optical Society of America, Fall Vision Meeting*, abstract published in *Journal of Vision*, 4(11), 53a, http://journalofvision.org/4/11/53/DOI_101167/4.11.53
- 2004 [redacted] & Dobkins, K.R. Both L+M and L M mechanisms contribute to brightness induction. *Optical Society of America, Fall Vision Meeting*, abstract published in *Journal of Vision*, 4(8), 348a, <http://journalofvision.org/4/8/348>, DOI 10.1167/4.8.348
- 2003 [redacted], Neitz, J., & Neitz, M. A novel missense mutation in the S cone photopigment in a male who made tritan errors on the Neitz Test of Color Vision. *Association for Research in Vision and Ophthalmology Abstr.* #1907.
- 2002 Dobkins, K.R. & [redacted] Chromatic contrast sensitivity is constrained by the relative number of L vs. M cones in the eye. *Optical Society of America, Fall Vision Meeting*, abstract published in *Journal of Vision*, 2(10), 53a, <http://journalofvision.org/2/10/53>, DOI 10.1167/2.10.53.
- 2000 [redacted] & Dobkins, K.R. Color contrast sensitivity: Independence of the cardinal axes and influence of L:M cone ratios as determined by factor analysis. *Association for Research in Vision and Ophthalmology Abstr.*, Vol. 41(4), 4289, p. S808.

- 1998 , Peterzell, D.H., & Dobkins, K.R. Are red/green isoluminance matches served by the same spatiotemporal *covariance* mechanisms that underlie chromatic and luminance contrast sensitivity? *Association for Research in Vision and Ophthalmology Abstr.*, Vol. 39(4), 4986, p. S1078.
- 1997 , Peterzell, D.H., & Dobkins, K.R. What mechanisms underlie red/green isoluminance matches at various spatial and temporal frequencies? *Association for Research in Vision and Ophthalmology Abstr.*, Vol. 38(4), 4170, p. S892.
- 1996 Decker, M.W., Bannon, A.W., Curzon, P., , Brioni, J.D., Holladay, M.W., Lin, N H., Li, Y., Daanen, J., Buccafusco, J.J., Prendergast, M.A., Jackson, W.J., & Arneric, S.P. Effects of ABT 089, a novel cholinergic channel modulator, on cognitive performance in rats and monkeys. *Society for Neuroscience Abstr.*, Vol. 22, 502.10, p. 1263.
- 1996 Bannon, A.W., , & Decker, M.W. Behavioral experience differentially alters the antinociceptive effect of morphine and (\pm) epibatidine in mice. *Society for Neuroscience Abstr.*, Vol. 22, 541.6, p. 1366.
- 1995 , Bannon, A.W., Decker, M.W., & Williams, M. Attenuation of (\pm) epibatidine's analgesic effect with acute caffeine or theophylline treatment. *Society for Neuroscience Abstr.*, Vol. 21(3), 247.11, p. 606.
- 1995 Decker, M.W., , & Curzon, P. Effects of continuous infusion of () nicotine on activity, acoustic startle, and spatial learning in septal lesioned rats. *Society for Neuroscience Abstr.*, Vol. 21(1), 69.8, p. 159.
- 1995 Bannon, A.W., Curzon, P., , & Decker, M.W. Injection of 192 IgG saporin into the medial septal area exacerbates a spatial memory deficit in aged rats. *Society for Neuroscience Abstr.*, Vol. 21(3), 763.12, p. 1946.
- 1995 Kowaluk, E.A., Kohlhaas, K.L., , Alexander, K.M., Daanen, J., Cowart, M., Wagenaar, F., & Kerwin, J.F., Jr. A 84643 selectively inhibits brain nitric oxide synthase. *FASEB J.* 9:A680.
- 1994 Bannon, A.W., , & Decker, M.W. Further characterization of the in vivo effects of (\pm) epibatidine, a potent nicotinic ligand. *Society for Neuroscience Abstr.*, Vol. 20 (2), 467.7, p. 1135.
- League of Women Voters of Montgomery County (Indiana), Secretary & Education Fund Coordinator
2011 – present
 - Co organizer of annual Brain Day, Carnegie Museum, Crawfordsville, IN.
2009 – present (except 2020 pandemic year)
 - Oberlin College Class of 1992 Vice President
2006 – 2011
 - Oberlin College Regional Alumni Coordinator
2005 – 2006. Milwaukee, WI
1996 – 2002. San Diego County, CA
1998 Regional Alumni Coordinator of the Year

- Oberlin College Alumni Recruiter
1994 – 2016
- Quilt Guild Board Member
2010 – 2011 & 2013 – 2014. President. Sugar Creek Quilters (Crawfordsville, IN)
2009 – 2010. Vice President. Sugar Creek Quilters (Crawfordsville, IN)
2005 – 2006. Secretary. Falls Quilters (Menomonee Falls, WI)
2002 – 2003. Secretary. West Suburban Quilters (Brookfield, WI)
1995 – 2001. Canyon Quilters (San Diego, CA): representative to the Southern California Council of Quilt Guilds (1998 – 2001), secretary (1999 – 2001), philanthropic committee (1996 – 1998)
- NPR Fund Drive Volunteer
2008 – 2015. WFYI (Indianapolis, IN)
Promoted to WFYI Fund Drive Supervisor April 2013.
2006 – 2007. WAMU (Washington, DC)
2003 – 2004. WKSU (Kent, OH)
1996 – 2002. KPBS (San Diego, CA)
1993 – 1995. WBEZ (Chicago, IL)
- Oberlin Senior's, Inc. (Oberlin, OH). 1990 – 1992. Four hours per week weaving and teaching others in the craft room, performing occasional concerts (violin), and creating topics for and leading a weekly discussion group.