

ACURRICULUM VITAE

ADAM M. PERSKY, PHD, FACSM

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SOCIAL MEDIA

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EDUCATION AND TRAINING

2002-2004 **Post-doctoral Fellow, Clinical Pharmacokinetics/Pharmacodynamics**
University of North Carolina and GlaxoSmithKline
Mentors: Kim L. R. Brouwer, PharmD, PhD (UNC), Frank Hoke, PhD (GSK)

1998-2002 **Ph.D., Pharmaceutical Sciences**
University of Florida, Gainesville, FL
Dissertation Title: *"Pharmacokinetics of the dietary supplement creatine"*
Advisor: Gayle A. Brazeau, PhD
Co-Chair: Günther Hochhaus, PhD

1996-1998 **M.S., Exercise Science**
University of Massachusetts, Amherst, MA
Project Title: *"Antihistamine effects on exercise-induced muscle swelling and soreness"*
Advisor: Priscilla M. Clarkson, PhD

1992-1996 **B.S., Biology**
Minors in Chemistry, Psychology
Purdue University, West Lafayette, IN

PROFESSIONAL EXPERIENCE

2018 **Visiting Scholar.** Kent State University, Department of Psychology (John Dunlosky, PhD), Kent, OH, USA

Visiting Scholar. Maastricht University, School of Health Science Education (Anique de Bruin), Maastricht, Netherlands

Visiting Scholar. Duke University, Department of Psychology and Neuroscience (Elizabeth Marsh, PhD), Durham, NC, USA

- 2018 - present **Clinical Professor.** University of North Carolina at Chapel Hill, School of Pharmacy, Division of Pharmacotherapy and Experimental Therapeutics, Chapel Hill, NC, USA
- 2008 - 2017 **Clinical Associate Professor,** University of North Carolina at Chapel Hill, School of Pharmacy, Division of Pharmacotherapy and Experimental Therapeutics, Chapel Hill, NC, USA
- 2011 – 2013 **Director,** Center for Educational Excellence in Pharmacy, Eshelman School of Pharmacy, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA
- 2010 - 2011 **Interim Director,** Center for Educational Excellence in Pharmacy, Eshelman School of Pharmacy, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA
- 2008-2010 **Inaugural Associate Director,** Center for Educational Excellence in Pharmacy, Eshelman School of Pharmacy, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA
- 2006-2008 **Clinical Assistant Professor,** University of North Carolina at Chapel Hill, School of Pharmacy, Division of Pharmacotherapy and Experimental Therapeutics, Chapel Hill, NC, USA
- 2004 -2006 **Clinical Assistant Professor,** University of North Carolina at Chapel Hill, School of Pharmacy, Division of Drug Delivery and Disposition, Chapel Hill, NC, USA
- 2002–2004 **Clinical Pharmacokinetics Fellow,** University of North Carolina and GlaxoSmithKline, Chapel Hill, NC, USA
- 2001-2002 **Graduate Teaching Assistant,** Department of Pharmaceutics, University of Florida, Gainesville, FL, USA
- 1998-2001 **Graduate Research Assistant,** Department of Pharmaceutics, University of Florida, Gainesville, FL, USA
- 1997–1998 **Assistant Editor,** International Journal of Sport Nutrition, Amherst, MA, USA
- 1996–1998 **Graduate Teaching Assistant,** Department of Exercise Science, University of Massachusetts, Amherst, MA, USA
- 1996-1998 **Graduate Clinical Research Assistant,** Department of Exercise Science, University of Massachusetts, Amherst, MA, USA
- 1995 **Research Assistant**
Department of Entomology, Rutgers University, Piscataway, NJ, USA
- 1994 **Volunteer Lab Technician,** Biology Department, Rutgers University, Piscataway, NJ, USA

HONORS AND AWARDS

- 2018 Rho Chi / Phi Lambda Sigma Induction Speaker, Presbyterian College of Pharmacy, Clinton, SC

- 2018 Rho Chi Induction Speaker, Massachusetts College of Pharmacy, Boston, MA
2017 Winner, Assessment Award, American Association of Colleges of Pharmacy (AACP),
- 2017 Distinguished Teaching Scholar - American Association of Colleges of Pharmacy
2017 Course Worthy of Recognition, UNC Eshelman School of Pharmacy (2013, 2017)
2017 Instructor Worthy of Recognition, UNC Eshelman School of Pharmacy (2011,2012, 2013, 2015, 2016, 2017)
- 2017 Reader's Choice, "Qualitative Analysis of Animation Versus Reading for Pre-Class Preparation in a 'Flipped' Classroom", Journal on Excellence in College Teaching,
2016 2nd place, School of Dentistry Curriculum Innovation Award, University of North Carolina at Chapel Hill, Chapel Hill, NC
- 2013 Class of 2013 Best Overall Instructor, School of Pharmacy, University of North Carolina at Chapel Hill, Chapel Hill, NC
- 2012 Fellow, Academic Leadership Fellowship Program, American Association of Colleges of Pharmacy
- 2011 Class of 2014 Instructor of the Year, School of Pharmacy, University of North Carolina at Chapel Hill, Chapel Hill
- 2011 Graduate Member, Phi Delta Chi, University of North Carolina
2010 Associate Member, Kappa Epsilon, University of North Carolina
2009 Atlantic Coast Conference (ACC) Teaching Scholar (2009-2010)
2009 Class of 2009 Best Overall Instructor, School of Pharmacy, University of North Carolina at Chapel Hill, Chapel Hill, NC
- 2008 Fellow – American College of Sports Medicine (inducted 2008)
2008 American Association of Colleges of Pharmacy (AACP) Teacher of the Year (2008, 2009, 2013)
- 2008 Class of 2008 Best Overall Instructor, School of Pharmacy, University of North Carolina at Chapel Hill, Chapel Hill, NC
- 2008 Class of 2010, Instructor of the Year, School of Pharmacy, University of North Carolina at Chapel Hill, Chapel Hill, NC
- 2008 Coater, White Coat Ceremony, School of Pharmacy, University of North Carolina at Chapel Hill, Chapel Hill, NC (2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017)
- 2007 Phi Lambda Sigma – Inducted 2007
2007 Honorable Mention, Innovative Teaching Award, American Association of Colleges of Pharmacy (AACP)
- 2005 Academic Excellence Award in Teaching, School of Pharmacy, University of North Carolina at Chapel Hill, Chapel Hill, NC (2005, 2006, 2007, 2008, [award not offered 2009-2011])
- 2005 Academic Excellence Award in Research, School of Pharmacy, University of North Carolina at Chapel Hill, Chapel Hill, NC (2006, 2007, 2008, [award not offered 2009-2011,012])
- 2005 Class of 2008 Instructor of the Year, School of Pharmacy, University of North Carolina at Chapel Hill, Chapel Hill, NC
- 2002 Frederico A. Vilallonga Memorial Award for Excellence in Graduate Studies, University of Florida, Gainesville, FL

BIBLIOGRAPHY

Books & Chapters

1. **A.M. Persky** and G.M. Pollack, Foundations in Pharmacokinetics, UNC Press, 2017 (available on iTunes)
2. **A.M. Persky**, M. Lucena, J. Hostetter, Drug-Exercise and Drug-Nutrient Interactions. *In: Nutrition for Elite Athletes*, CRC Press, 2015
3. A.E. Eudy and **A.M. Persky**. Metabolism. Nutrition for Elite Athletes, CRC Press, 2015
4. E. S. Rawson and **A.M. Persky**. Doping in Children and Adolescents. *In: The Young Athlete. The Encyclopedia of Sports Medicine. An IOC Medical Commission Publication in Collaboration with the International Federation of Sports Medicine.* Oxford: Blackwell Science. P268-286, 2008
5. **A. M. Persky** and E. S. Rawson. Safety of creatine supplementation in health and disease. *In: Creatine and Creatine Kinase in Health and Disease*, Springer, Netherlands, p 275-289, 2007
6. W. McCall and **A. M. Persky**. Pharmacokinetics of creatine. *In: Creatine and Creatine Kinase in Health and Disease*, Springer, Netherlands, p 261-274, 2007
7. A.D.M. Kashuba, J. Park, **A. M. Persky**, and K. L. R. Brouwer, Drug Metabolism, Transport and the Influence of Hepatic Disease, *In: Applied Pharmacokinetics*, Editors W. Evans, 4th Edition, Lippincott Williams and Wilkins, Maryland, p 121-164, 2005
8. J.A. Hughes, **A.M. Persky**, Xin Guo, and Tapash K. Ghosh, Solubility, *In: Theory and Practice of Contemporary Pharmaceutics*. Editors TK Ghosh, BR Jasti, CRC Press, New York, p 55-82, 2004
9. **A.M. Persky**, L Prokai and J.A. Hughes, Thermodynamics and States of Matter, *In: Theory and Practice of Contemporary Pharmaceutics*. Editors TK Ghosh, BR Jasti, CRC Press, New York, p 31-54, 2004
10. P.M. Clarkson and **A.M. Persky**, Steroid misuse in athletes, *In: Skeletal Muscle: Pathology, Diagnosis and Management of Disease*. Editors V.R. Preedy, T.J. Peters, Greenwich Medical Media Limited, London, p 97-108, 2002
11. G.A. Brazeau, **A.M. Persky**, and J. Napaporn, Dosage Forms: Parenterals, *In: Encyclopedia of Pharmaceutical Technology*, 2nd Edition, Marcel-Dekker, 2002

REFEREED ARTICLES

1. **A.M. Persky**, E. Lee, L. Schlesselman, Perception of learning versus performance as outcomes measures of educational research, *Am J Pharm Ed*, accepted
2. S. Dunham, E. Lee, **A.M. Persky**, The psychology of following instructions and its implications, *Am J Pharm Educ*, accepted
3. E.T. Trexler, D.S. Keith, A.A. Lucero, L. Stoner, T.A. Schwartz, **A.M. Persky**, E.D. Ryan, A.E. Smith-Ryan Effects of Citrulline Malate and Beetroot Juice Supplementation on Energy Metabolism and Blood Flow During Submaximal Resistance Exercise, *J Dietary Suppl*, accepted
4. E.T. Trexler, D.S. Keith, T.A. Schwartz, E.D. Ryan, L. Stoner, **A.M. Persky**, A.E. Smith-Ryan, Effects of citrulline malate and beetroot juice supplementation on blood flow, energy metabolism, and performance during maximum left extension exercise, *J Strength Cond Res*, accepted

5. B. Yang, J Razo, **A.M. Persky**, Testing as a learning tool, *Am J Pharm Educ*, 83(9), Article 7324, 2019
6. A. Omary, **A.M. Persky**, Study of changes in working memory performance over a semester in student pharmacists, *Am J Pharm Educ*, 83(10): Article 7325, 2019
7. A. Bush, M. Amechi, **A.M. Persky** An Exploration of Pharmacy Education Researchers' Perceptions of and Experiences Conducting Qualitative Research: Challenges and Benefits. *Am J Pharm Educ*, accepted
- 8.
9. E.T. Trexler, **A.M. Persky**, E.D. Ryan, T.A. Schwartz, L. Stoner, A.E. Smith-Ryan, Acute Effects of Citrulline Supplementation on High-Intensity Strength and Power Performance: A Systematic Review and Meta-Analysis, *Sports Med*, 49(5):707-718, 2019
10. **A.M. Persky**, I. Kang, W.C. Cox, J.M. McLaughlin, An Exploration of the Relationships between Multiple Mini-Interview Scores and Personality Trait, *Am J Pharm Educ*, 83(8): Article 7240, 2019
11. S. Palmer, Y. Chu, **A.M. Persky** Comparison of re-watching class recordings and retrieval practice as post-class learning strategies for long-term retention, *Am J Pharm Educ*, 83(9), Article 7217, 2019
12. **A.M. Persky**, D. Dinsmore, Metacognitive changes and sources of confidence judgements in health professions classroom learning, *Curr Dir Pharm Teach Learn*, 11(4) 338-345, 2019
13. J. Terenyi, H. Anksorus, **A.M. Persky**, Optimizing the spacing effect in the classroom setting using brand/generics, *Am J Pharm Educ*, Article 7029, 2019
14. B. Patel, G. Yook, S. Mislán, **A.M. Persky**, Exploring Consequences on Memory of Students Knowing They Have Access to Recorded Lectures, *Am J Pharm Educ*, 83(5): Article 6958, 2019
15. **A.M. Persky**, M. Medina, A.N. Castleberry, Developing critical thinking skills in pharmacy students, *Am J Pharm Educ*, 83(2): Article 7033, 2019.
16. B. Patel, S. Mislán, G. Yook, **A.M. Persky**, Recorded lectures as a source of cognitive off-loading, *Am J Pharm Educ*, 83(5): Article 6793, 2019.
17. **A.M. Persky**, K. Murphy, Investigating Whether Transfer of Learning in Pharmacy Students Depends More on Knowledge Storage or Accessibility, *Am J Pharm Educ*, 83(3): Article 6809, 2019
18. **A.M. Persky**, J. Greene, H.A. Anksorus, K.A. Fuller, J. McLaughlin, Developing an Innovative, Comprehensive First-Year Capstone to Assess and Inform Student Learning and Curriculum Effectiveness, *Am J Pharm Educ*, 83(5): Article 6730, 2019
19. **A.M. Persky**, A 3 year longitudinal study of student learning strategies, *Curr Pharm Teach Learn*, 10(11):1496-1500, 2018
20. Y. Chu, S. Palmer, **A.M. Persky**, Assessing metacognition in the classroom: student help-seeking behavior, *Curr Teach Learn Pharm*, 10(11):1478-1487, 2018

21. A.N. Castleberry, S.L. Haines, S.M. Stein, J.A. Van Amburgh, **A.M. Persky**, 5-Minute University: A Description and Discussion of 5-Minute Faculty Teaching Training Videos, *J Faculty Develop*, 3(2), 2018
22. **A. M. Persky**, J.E. McLaughlin, Troubleshooting the Flipped Classroom in Medical Education: Common Challenges and Lessons Learned, *Med Sci Educ*, 28(1):235-241, 2018
23. J. Greene, K.A. Fuller, **A.M. Persky**, Practical Tips for Integrating Clinical Relevance into Foundational Science Courses, *Am J Pharm Educ*, 82(5): Article 6603, 2018
24. **A.M. Persky**, H Mierzwa, Determinants of the time to complete an examination: Knowledge, metacognition or personality? *Am J Pharm Educ*, 82(7): Article 6321, 2018
25. **A.M. Persky**, S. Hudson, M. Jarsfter, Is learning improved when students generate and answer peer written questions? *Am J Pharm Educ*, 82(2): Article 6315, 2018
26. J Terenyi, H. Anksorus, **A.M. Persky**, Learning brand name-generics: impact of spacing of practice, *Am J Pharm Educ*, 82(1): Article 6179, 2018
27. J. McLaughlin, J. Khanova, **A.M. Persky**, N. Hathaway, W.C. Cox. Design, Implementation, and Outcomes of a Three-Week Pharmacy Bridging Course, *Am J Pharm Educ*, 81(7): Article 6313, 2017
28. **A.M. Persky**, M Wells, K. Sanders, J Fiordalsi, C. Downey H. Anksorus, An interdisciplinary approach improving long-term retention of pharmacology knowledge, *J Dent Educ*, September 2017
29. **A.M. Persky**, J. Robinson, Moving from novice to experts and its implications for instruction, *Am J Pharm Educ*, 81(9): Article 6065, 2017
30. **A.M. Persky**, J. McLaughlin, The flipped classroom - from theory to practice in health professional education, *Am J Pharm Educ*, 81(6): Article 118, 2017
31. **A.M. Persky**, A. Hogg. Study time for pre-class quizzes in a flipped classroom: influence of reading material characteristics, *Am J Pharm Educ*, 81(6): Article 103, 2017
32. M.S. Medina, A.N. Castleberry, **A.M. Persky**, Strategies for improving learner metacognition in health professional education, *Am J Pharm Educ*, 81(4): Article 78, 2017
33. **A.M. Persky**, F. Romanelli, Insights, pearls, and guidance on successfully producing and publishing educational research, *Am J Pharm Educ*, 80(5): Article 75, 2016
34. **A.M. Persky**, S. Hudson, A snapshot of student study strategies across a professional pharmacy curriculum: are students using evidence-based practice? *Curr Pharm Teach Learn*, 2016, 8(2): 141-147
35. E.T. Trexler, A.E. Smith-Ryan, E.J. Roelofs, K. R. Hirsch, **A.M. Persky**, M. G. Mock, Effects of coffee and caffeine anhydrous intake during creatine loading. *J Strength Cond Res*.2016, 30(5):1438-46

36. **A.M. Persky**, T. Henry, A. Campbell. An exploratory analysis of personality, attitudes, and study skills on the learning curve within a team-based learning environment, *Am J Pharm Educ*, 2015, 79(2): Article 20
37. J. Schlesinger J, **A.M. Persky**, Faculty Learning Community. Bloom's Taxonomy in Action. MedEdPORTAL Publications; 2015. Available from: <https://www.mededportal.org/publication/10031>
38. **A.M. Persky**, R.E. Dupuis, An eight year retrospective study in "flipped" pharmacokinetics courses, *Amer J Pharm Educ*, 78(1) Article 190, 2014
39. A. Hedges, S. Miller, M. Scott, **A.M. Persky**, Current environment of service learning within the school of pharmacy, *Curr Pharm Teach Learn*, 6(6): 884-890, 2014
40. **A.M. Persky**, Qualitative analysis of animation versus reading for pre-class preparation in a "flipped" classroom in a professional pharmacy program, *J Excel College Teach*, 26(1): 5-28, 2015
41. J. Lancaster, S. Stein, L. Garrelts MacLean, J. Van Amburgh, **A.M. Persky**, A review of Faculty development programs models to advance teaching and learning within health science programs: a review of literature, *Am J Pharm Educ*, 78(5), Article 99, 2014
42. **A.M. Persky**, J. Kirwin, C.J. Marasco, D.M. May, M. L. Skomo, K. B. Kennedy, Classroom Attendance: Factors and Perceptions of Students, Faculty, and Administrators amongst schools of pharmacy, *Curr Pharm Teach Learn*, 6(1): 1-9, 2014
43. M.Z. Farland, B.L. Sicut., A.S. Franks, K.S. Pater, M.S. Medina, **A.M. Persky**, Best practices for team-based learning in pharmacy education, *Am J Pharm Educ*, 77(8): Article 177, 2013
44. A.J. Greco, S.P. Ferreri, **A.M. Persky**, M.W. Marciniak, Characteristics of Postgraduate Year Two (PGY2) Pharmacy Residency Programs with a Secondary Emphasis on Academia, *Am J Pharm Educ*, 77(7): Article 143, 2013
45. W.C. Cox, **A.M. Persky**, S.L. Blalock, Correlation of the health science reasoning test with other variables within an admissions process, *Am J Pharm Educ*, 77(6) Article 118, 2013
46. C. White, D.T. Howell, **A.M. Persky**, B. Louis, LM., Griffin, A. Simmons-Yon, K.L. Scolaro, Institutional strategies to achieve diversity and inclusion in pharmacy education: a results oriented, multi-faceted approach, *Am J Pharm Educ*, 77(5), Article 97, 2013
47. **A.M. Persky**, P.U. Joyner, W.C. Cox, Development of a course review process, *Am J Pharm Educ*, 76(7) Article 130, 2012
48. **A.M. Persky**, Impact of team-based learning on a foundational pharmacokinetics course, *Am J Pharm Educ*, 76(2) Article 31, 2012
49. **A.M. Persky** and G.M. Pollack, A modified team-based learning physiology course, *Am J Pharm Educ*, 75(10) Article 204, 2011

50. **A.M. Persky** and E.S. Rawson, Creatine supplementation in the older adult: muscular and cognitive perspectives, *AgroFood industry hi-tech*, July/August, 21(4), 17-19, 2010
51. **A.M. Persky** and G.M. Pollack, Transforming a large, lecture based course to a small group, interactive course in a professional curriculum: example using a foundational pharmacokinetics course, *Am J Pharm Educ*, 74(9) Article 170, 2010
52. **A.M. Persky**, An exercise prescription course: helping to support public health and improving pharmacy students' confidence in patient counseling, *Am J Pharm Educ*, 73(7) Article 188, 2009
53. **A.M. Persky** and G.M. Pollack, A hybrid jigsaw approach to teach renal clearance concepts, *Am J Pharm Educ*, 73(3) Article 49, 2009
54. R.A. Blouin, W.H. Riffée, E.T. Robinson, D.E. Beck, C. Green, P.U. Joyner, **A.M. Persky**, and G.M. Pollack, Position Statement: Role of innovation in education delivery, *Am J Pharm Educ*, 73 (8) Article 154, 2009
55. **A.M. Persky** and G.M. Pollack, Immediate feedback, answer-until-correct examinations in a core-curriculum pharmacokinetics course, *Am J Pharm Educ*, 72(4) Article 83, 2008
56. **A.M. Persky**, Multi-faceted approach to improve learning in pharmacokinetics, *Am J Pharm Educ*, 72(2) Article 36, 2008
57. R. E. Dupuis and **A.M. Persky**, Initial experience in using case-based learning in a clinical pharmacokinetics courses, *Am J Pharm Educ*, 72(2) Article 29, 2008
58. E.S. Rawson and **A.M. Persky**, Mechanisms of muscular adaptations to creatine supplementation, *Int SportsMed J*, 8(2): 43-53, 2007
59. **A.M. Persky**, J. Stegall-Zanation and R. E. Dupuis, Student perceptions of the incorporation of games into classroom instruction for basic and clinical pharmacokinetics, *Am J Pharm Educ*, 71(2): Article 21, 2007
60. **A.M. Persky**, C. Ng, M. Song, M.E. Lancaster, D.E. Balderson, M. A. Paulik, and K.L.R. Brouwer, Comparison of the pharmacodynamic responses after single doses of ephedrine or sibutramine in healthy, overweight volunteers, *Int J Clin Pharmacol Therap*, 42(8): 442-448, 2004
61. **A.M. Persky** and E.S. Rawson, Detecting adverse events in dietary supplement research: lessons from ephedra alkaloids, *J Exerc Physiol online*, 7(2): 84-99, 2004
62. L. Tang, **A.M. Persky**, G. Hochhaus and B. Meibohm, Pharmacokinetic aspects of biotechnology products, *J Pharm Sci*. 93(9): 2184-2204, 2004
63. **A.M. Persky**, N.S. Berry, G.M. Pollack, and K.L.R. Brouwer, Modeling the cardiovascular effects of ephedrine, *Br J Clin Pharmacol*, 57(5): 552-562, 2004

64. E.S. Rawson, **A.M. Persky**, T.B. Price and P.M. Clarkson, Effects of repeated creatine supplementation on muscle, plasma and urine creatine levels, *J Strength Cond Res*, 18(1): 162-7, 2004
65. **A.M. Persky**, N Eddington and H. Derendorf, A review of the effects of chronic exercise and physical fitness level on resting pharmacokinetics, *Int J Clin Pharmacol Therapeutics*, 41(11): 504-516, 2003
66. **A.M. Persky**, G.A. Brazeau and G. Hochhaus, Pharmacokinetics of the dietary supplement creatine, *Clin Pharmacokinetics* 42(6): 557-74, 2003
67. **A.M. Persky**, G. Hochhaus and G.A. Brazeau, Validation of a simple HPLC assay for creatine suitable for pharmacokinetic applications, determination of plasma protein binding and verification of percent labeled claim of various creatine products, *J Chromatog Biomed Appl*, 794(1): 157-165, 2003
68. **A.M. Persky**, M. Muller, H. Derendorf, M. Grant, G.A. Brazeau and G. Hochhaus. Single- and multiple-dose pharmacokinetics of oral creatine, *J Clin Pharmacol*, 43(1): 29-37, 2003
69. **A.M. Persky** and G.A. Brazeau, Clinical pharmacology of the dietary supplement creatine, *Pharmacol Rev*, 53:161-176, 2001
70. **A.M. Persky**, P.S. Green, L. Stublely, C.O. Howell, L. Zaulyanov, G.A. Brazeau and J.W. Simpkins, Protective effect of estrogens against oxidative damage to heart and skeletal muscle *in vivo* and *in vitro*, *Proc Exp Biol Med*, 223(1): 59-66, 2000
71. **A.M. Persky**, G.A. Brazeau and J.W. Simpkins, Therapeutic benefits of estrogen replacement therapy, *Florida Pharmacy Today*, December, p. 14-20, 1999

REFEREED ARTICLES (in review)

1. Butler, A.C., A.C. Black-Maier, K. Campbell, E.J. Marsh, **A.M. Persky**, Stabilizing Access to Marginal Knowledge in a Classroom Setting, *Appl Cog Psych*, in revision
2. Kodweis, K, L.C. Schimmelfing, Y. Yang, **A.M. Persky**, Comparison of worked examples to practice to optimize learning of clinical note writing, *Med Educ*, in review
3. Schimmelfing, L.C. **A.M. Persky**, Activating Prior Knowledge Using Multiple-Choice Question Distractors, *Med Educ*, in review
4. Steeb, D.R., J.M Zeeman, A.A. Bush, S.A. Dascanio, **A.M. Persky**, Exploring career development through a student directed practicum to provide individualized learning experiences, *Curr Pharm Teach Learn*, in review

NON-REFEREED SCHOLARSHIP

1. **A.M. Persky**, B. Green, M. Dolan, How Cognitive Psychology Can Inform Our Teaching, <https://community.acue.org/blog/how-cognitive-psychology-can-inform-our-teaching/>
2. **A.M. Persky**, A Using Testing in All Aspects of Course Development, <https://nobaproject.com/blog/2018-10-03-using-testing-in-all-aspects-of-course-development>

3. **A.M. Persky**, Intellectual self-doubt and how to get out of it, *Am J Pharm Educ*, 82(1): Article 6990, 2018
4. C. Kulig, **A.M. Persky**, Transition and Student Well-being – Why We Need to Start the Conversation, *Am J Pharm Educ*, 81(6): Article 100, 2017
5. **A.M. Persky**, Promoting classroom civility, Association of College and University Educators, 2016
6. **A.M. Persky**, Foundations in Pharmacokinetics: an e-book, written 2004, updated 2005, 2006, 2007, 2009; 220 pages
7. **A.M. Persky**, Creating posters for the 21st century, *Am J Pharm Educ*, 80(10): Article 162, 2016
8. **A.M. Persky**, Mentoring and developing a successful trainee: a reflection, *Am J Pharm Educ*, 80(4): Article 55, 2016
9. **A.M. Persky**, B. Mehta and C. McQueen, Combating the Dr. Oz effect: teaching critical thinking skills in self-care, Self Care Special Interest Group newsletter, Spring 2015, <http://www.aacp.org/governance/SIGS/selfcarenonprescriptionmedicine/Documents/AACP%20Self%20Care%20SIG%20Newsletter%202015%20final.pdf>. Accessed July 2015
10. **A.M. Persky**, Are we practicing evidence based education? *Am J Pharm Educ*, 79(8) Article 109, 2015
11. M. Howard, **A.M. Persky**, Helpful Tips for New Users of Active Learning, *Am J Pharm Educ*, 79(4): Article 46, 2015
12. **A.M. Persky**, Cost-benefit of educational interventions, *Am J Pharm Educ*, 78(8) Article 145, 2014
13. S.H. Haines, **A.M. Persky**, Faculty development: who, what, why, where, when and how?, *Am J Pharm Educ*, 78(5) Article 97, 2014
14. **A.M. Persky**, E.L. Alford, and J. Kyle, Not all hard work leads to learning, *Am J Pharm Educ*, 77(5), Article 89, 2013
15. **A.M. Persky**. ELITE database, <http://learn.pharmacy.unc.edu/education>, initiated 2012
16. **A.M. Persky**. What the evidence shows with respect to how we learn. RDH eVillage FOCUS. 2011, July 14. <http://www.dentistryiq.com/index/RDHProducts/RDHeVillageFocus.html>. Accessed 7/18/11
17. **A.M. Persky**, Book Review, “Collaborative Learning Techniques” by Barkley et al. for *Spotlight on Teaching Newsletter*, published by the Center for Faculty Excellence, University of North Carolina at Chapel Hill, 2010
18. **A.M. Persky**, Editor, *Time-out for Teaching Newsletter*, published quarterly to the UNC Eshelman School of Pharmacy faculty, Summer 2008-2011
19. **A.M. Persky**, W.C. Cox, K. Deloatch, and G.M. Pollack, Good outcome development is good science, *Am J Pharm Educ*, 71(4) Article 74, 2007

20. D.B. Bylund, L. Brunton, P. J.R. Cobbett, **A.M. Persky** and P.C. Preusch . Integrative and Organ Systems Pharmacology: Short Courses in 2005, Mol Intervent, 5(6): 330-333, 2005
21. E.S. Rawson and **A.M. Persky**, Regarding the cardiovascular effects of an herbal ephedra – caffeine weight loss product, Int J Obes Relat Metab Disord, 28(10): 1353-4, 2004
22. **A.M. Persky**, Cover artwork, Adv Drug Deliv Rev, 55(5) 2003.

ABSTRACTS AND POSTER PRESENTATIONS

1. “Comparison of worked examples to practice to optimize learning of clinical note writing”
 - Presented as a poster (by Karl Kodweis, PharmD candidate) at the American Society of Health-System Pharmacists (ASHP) Mid-Year meeting, Las Vegas, NV, 2019
2. “Perception of learning versus performance as outcome measures of educational research”
 - Presented as a poster (by Edward Lee, PharmD candidate) at the American Society of Health-System Pharmacists (ASHP) Mid-Year meeting, Las Vegas, NV, 2019
3. “Use of concept mapping activity to enhance pharmacy student metacognition and comprehension of fundamental disease state knowledge “
 - Presented as a poster (by Madison Oxley, PharmD) at the American Society of Health-System Pharmacists (ASHP) Mid-Year meeting, Las Vegas, NV, 2019
4. “Unskilled and unaware: assessing metacognitive monitoring of student help-seeking behavior”
 - Presented as a poster (by Youn Chu, PharmD Candidate) at the American Association of Colleges of Pharmacy (AACP) annual meeting, 2018, Boston, MA
5. “End stage retention disease (ESRD): when re-watching lectures does not improve long-term retention”
 - Presented as a poster (by Shannon Palmer, PharmD Candidate) at the American Association of Colleges of Pharmacy (AACP) annual meeting, 2018, Boston, MA
6. “The relationship between personality factors and the scores on the multiple mini-interview (MMI)”
 - Presented as a poster (by Isabell Kang, PharmD Candidate) at the American Society of Health System Pharmacists (ASHP) mid-year meeting, 2017, Orlando, FL
7. “*Field of Dreams: Faculty Teaching Development in 5 Minutes,*”
 - Presented as a poster (by Ashley Castleberry, University of Arkansas Medical Sciences) at the American Association of Colleges of Pharmacy (AACP) annual meeting, 2017, Nashville, TN
8. “*Developing an Innovative, Comprehensive First-1 Year Capstone to Assess and Improve Student Learning and Curriculum Effectiveness*”
 - Presented as a poster at the American Association of Colleges of Pharmacy (AACP) annual meeting, 2017, Nashville, TN
9. “*Professional Students’ Confidence and Calibration in a Semester-long Pharmacy Course*”
 - Presented as a poster (by Dan Dinsmore, University of North Florida) at the American Education Research Association (AERA) annual meeting, 2017, San Antonio, TX

10. *“Stabilizing access to marginal knowledge in a classroom setting”*
 - Presented as a poster (by Andrew Butler, University of Texas) at the American Education Research Association (AERA) annual meeting, 2017, San Antonio, TX
11. *“An Interdisciplinary Teaching Approach to Improving Retention of Pharmacology Knowledge”*
 - Presented as a poster (by Michael Wells, PharmD candidate) at the American Dental Education Association meeting, 2017, Long Beach, CA
12. *“Is learning improved when students generate and answer peer written questions?”*
 - Presented as a poster (by Shelby Hudson, PharmD Candidate) at the North Carolina Association of Pharmacists annual meeting, 2016, Charlotte, NC
13. *“Streaming Teaching and Learning: Faculty Perceptions of a 5-Minute Faculty Teaching Training Video Series”*
 - Presented as a poster (by Sue Stein) at Educause national meeting, 2016, Anaheim, CA
14. *“Spacing practice improves retention in the self-paced learning of Brand/Generics”*
 - Presented as a poster (by James Terenyi, student pharmacist) at the American Association of Colleges of Pharmacy, 2016, Anaheim, CA
 - Presented as an encore poster American Association of Health System Pharmacists annual meeting, 2016, Las Vegas, CA
15. *“Does spacing homework improve learning in a team-based-learning course?”*
 - Presented as a poster at the American Association of Colleges of Pharmacy, 2016, Anaheim, CA
16. *“Gentamicin pharmacokinetics in asphyxiated neonates: does cooling further reduce clearance?”*
 - Presented as a poster (by Monique Conway, student pharmacist) at the American Society of Health Systems Pharmacists Mid-Year Meeting, 2014, Anaheim, CA
17. *“Dynamics of an Academic Administrative Fellowship in Diversity”*
 - Presented as a poster (by Devon Townsend) at American Association of Colleges of Pharmacy (AACP) National Meeting, 2012, Kissimmee, FL
18. *“Cross-Cultural Communication Training: Student Perceptions”*
 - Presented as a poster (by Carla White) at American Association of Colleges of Pharmacy (AACP) National Meeting, 2012, Kissimmee, FL
19. Institutional Strategies for Best Practices in Minority Recruitment to Achieve Diversity and Inclusion
 - Presented as a poster (by Carla White) at American Association of Colleges of Pharmacy (AACP) National Meeting, 2012, Kissimmee, FL
20. *“Current Environment of Service-learning in the UNC Eshelman School of Pharmacy”*
 - Presented as a poster (by Ashley Hedges, student) at Research Day, UNC Eshelman School of Pharmacy, 2012, Chapel Hill, NC
21. *“Framing the Curriculum: Use of Clinical Application to Integrate Foundational and Clinical Sciences*

- Presented as a school poster (by Pam Joyner) at the American Association of Colleges of Pharmacy (AACP) National Meeting, 2011, San Antonio, TX
22. *“Impact of Team-Based Learning in a Foundational Pharmacokinetics Course”*
- Presented as a free communication at the American Association of Colleges of Pharmacy (AACP) National Meeting, 2011, San Antonio, TX
23. *“Design and Implementation of a Course Review Process”*
- Presented as a free communication at the American Association of Colleges of Pharmacy (AACP) National Meeting, 2011, San Antonio, TX
24. *“Evaluation of a Virtual Poster Presentation Defense in ‘Second Life’ to Prepare Pharmacy Students for Live Presentation”*
- Presented (by Pete Koval) as a free communication at the American College of Clinical Pharmacy national meeting, 2010, Austin, TX.
25. *“Service-Learning in the UNC Eshelman School of Pharmacy Curriculum”*
- Presented (by Mollie Scott) as a free communication at the American Associate of Colleges of Pharmacy (AACP) National Meeting, 2010, Seattle, WA
26. *“A ‘Sandwich’ Approach to Enhancing the Scholarship of Teaching”*
- Presented as a school poster at the American Associate of Colleges of Pharmacy (AACP) National Meeting, 2010, Seattle, WA
27. *“Service-Learning in the UNC Eshelman School of Pharmacy Curriculum”*
- Presented (by Allison, Riendeau, student-pharmacist) as a free communication at the North Carolina Association of Pharmacists (NCAP), 2010, Greensboro, NC
28. *“Development and Delivery of a Short Course in Integrative and Organ Systems Pharmacology”*
- Presented (by Jeannie Padowski, graduate student) as a free communication at the American Association of Colleges of Pharmacy (AACP) National Meeting, 2008, Chicago, IL
29. *“Multifaceted approach to improve learning pharmacokinetics.”*
- Presented as a free communication at the American Association of Colleges of Pharmacy (AACP) National Meeting, 2007, Orlando, FL
30. *“Evaluation of a pilot, multimedia, interactive learning module in a foundational pharmacokinetics course.”*
- Presented as a free communication at the American Association of Colleges of Pharmacy (AACP) National Meeting, 2007, Orlando, FL
31. *“Development of Curricular Outcomes and Curricular Mapping Strategies at the UNC School of Pharmacy:*
- Presented (by Kimberly Deloatch) as a free communication at the American Association of Colleges of Pharmacy (AACP) National Meeting, 2007, Orlando, FL
32. *“Adjusting our Delivery of Knowledge to Student Pharmacists: Identifying Current Learning and Teaching Styles to Improve Pharmacy Education.”*

- Presented (by Aaron Bender, student pharmacist) as a free communication at the North Carolina Association of Pharmacists (NCAP), 2007, Greensboro, NC
33. *“A study to assess the effect of food and time of day dosing on the pharmacokinetics of rosiglitazone and metformin after administration of Avandamet, Glucophage XR, and Avandia.”*
 - Presented (by Paul Mudd) as a free communication at the American College of Clinical Pharmacology (ACCP) National Meeting, 2004, Phoenix, AZ
 34. *“Effect of 695634, a next generation NNRTI, on cytochrome P450 (CYP) probe substrates”*

Presented (by Joseph Kim) as a free communication at the Interscience Conference on

 - Antimicrobial Agents and Chemotherapy (ICAAC) National Meeting, 2004, Washington, DC
 35. *“Protective effect of estrogens against oxidative damage to heart and skeletal muscle in vivo and in vitro”*
 - Presented as a free communication at the American Association of Pharmaceutical Scientists (AAPS) National Meeting, 1999, New Orleans, LA
 36. *“Antihistamine effects on exercise-induced muscle swelling and soreness: preliminary investigation”*
 - Presented as a free communication at the American College of Sports Medicine (ACSM) National Meeting, 1999, Seattle, WA.

INVITED PRESENTATIONS

1. *“The Most Bang for Your Buck: Top 10 Teaching and Learning Strategies for All Faculty”*
 - Presented as an encore webinar (with M. Medina, Univ of Oklahoma; A. Castleberry, Univ of Texas) for the Junior Faculty Special Interest group of the American Association of Colleges of Pharmacy (AACP), 2019
2. *“Clinical application of sports supplements”*
 - Presented as a symposium (with Ellen Coleman, RD) at the Food and Nutrition Conference and Expo, Philadelphia, PA, 2019
3. *“Educational Advancement through Sabbatical Leave”*
 - Presented as a webinar (with Scott Bolesta, Wilkes University) for the American Association of Colleges of Pharmacy (AACP), 2019
4. *“Curricular integration: to integrate or not”*
 - Presented as a full-day workshop (with Terri Poirer, Southern Illinois University) at the University of Missouri – Kansas City College of Pharmacy, Kansas City, MO, 2019
5. *“The Most Bang for Your Buck: Top 10 Teaching and Learning Strategies for All Faculty”*
 - Presented as a symposium (with M. Medina, Univ of Oklahoma; A. Castleberry, Univ of Texas) at the American Association of Colleges of Pharmacy (AACP) annual meeting, 2019, Chicago, IL
6. *“Winners without Losers: the scientific basis through implementation for improving student learning”*

- Presented as the Priscilla M. Clarkson Tutorial Lecture at the annual meeting of the American College of Sports Medicine (ACSM), 2019, Orlando, FL
7. *“Addressing Standards 3 and 4”*
 - Presented as a workshop at Touro University College of Pharmacy, 2019, New York, New York
 8. *“From Bench top to application: helping students learn”*
 - Presented as a workshop at Drake University College of Pharmacy, 2019, Des Moines, IA
 9. *“Optimizing Learning: From Theory to Practice”*
 - Presented as a seminar at Monash University College of Pharmacy, 2018, Melbourne, Australia
 10. *“Winner takes all: debating the merits of qualitative and quantitative research”*
 - Presented as a symposium (with J. McLaughlin; A. Bush; and F. Romanelli, Univ of Kentucky) at the American Association of Colleges of Pharmacy (AACP) annual meeting, 2018, Boston, MA
 11. *“Uniquely you: developing your approach to becoming an education scholar”*
 - Presented as a symposium (with J. Cain, Univ of Kentucky; M. Medina, Univ of Oklahoma; D. Holford, Virginia Commonwealth Univ) at the American Association of Colleges of Pharmacy (AACP) annual meeting, 2018, Boston, MA
 12. *“Critical thinking: we all want to teach it but how do we measure it”*
 - Presented as a symposium (with M. Medina, Univ of Oklahoma; A. Castleberry, Univ of Texas) at the American Association of Colleges of Pharmacy (AACP) annual meeting, 2018, Boston, MA
 13. *“Teaching Strategies to Support Student Learning: Scientific Basis through Implementation*
 - Presented as a workshop (with Connie Remsberg, Washington State University) for the Transformation and Innovation of Pharmacy Education Institute, 2018, Spokane, WA
 14. *“Active Learning: from theory to practice”*
 - Presented as a seminar at the School of Dentistry, University of North Carolina at Chapel Hill, 2018, Chapel Hill, NC
 -
 15. *“Assessing metacognition: the what, why, and how”*
 - Presented as a symposium at the annual meeting (J. Dobson, Georgia State University, Mary Pat Wedendorf, Univ. of Washington) with of the American College of Sports Medicine (ACSM), 2018, Minneapolis, MN
 16. *“Practice: we do it in sports but do we do enough in the classroom”*
 - Presented as a tutorial lecture at the annual meeting of the American College of Sports Medicine (ACSM), 2018, Minneapolis, MN
 17. *“The science of teaching: instructional strategies and course design”*
 - Presented as a seminar at the School of Nursing, Virginia Commonwealth University, 2018, Richmond, VA

18. *“Strategies for turning curricular innovations in scholarship & using assessment to improve teaching and whole programs”*
 - Presented as a seminar for the School of Pharmacy at Presbyterian College, 2018, Clinton, SC
19. *“The pharmacy bridging course and the scholarship of teaching”*
 - Presented as a seminar for the College of Pharmacy at Massachusetts College of Pharmacy and Health Sciences, 2018, Boston, MA
20. *“A New View of Assessment and an Old View of Item Analysis “*
 - Presented as a seminar for the College of Pharmacy at Massachusetts College of Pharmacy and Health Sciences, 2018, Boston, MA
21. *“Case studies in evidence-based instructional innovation”*
 - Presented as a seminar for the Department of Pharmacotherapy at Purdue University, 2018, West Lafayette, IN
22. *“Navigating curriculum redesign”*
 - Presented as a concurrent session at the Lilly Conference on College and University Teaching, 2018, Austin, TX
23. *“Crowdsourcing solutions to common teaching problems”*
 - Presented as a concurrent session at the Lilly Conference on College and University Teaching, 2018, Austin, TX
24. *“The Benefits of Testing: More Than Just an Incentive to Study”*
 - Presented as a concurrent session at the Lilly Conference on College and University Teaching, 2018, Austin, TX
25. *“Group Learning Models and Optimizing their Potential”*
 - Presented a workshop at Concordia University School of Pharmacy, 2017, St. Paul, WI
26. *“Scholarly teaching to scholarship of teaching”*
 - Presented a workshop at the Shenandoah University College of Pharmacy, 2017, Winchester, VA
27. *“Evidence-based Education: Implementation to Research”*
 - Presented as a seminar for the Department of Pharmacotherapy and Translational Research, University of Florida, 2017, Gainesville, FL
28. *“Developing an Innovative, Comprehensive First-1 Year Capstone to Assess and Improve Student Learning and Curriculum Effectiveness”*
 - Presented as a concurrent session (by Tom Angelo and Jessica Greene) for Assessment Institute in Indianapolis, 2017, Indianapolis, IN
29. *“Techniques for maximizing learning: what research in educational psychology tells us?”*
 - Presented as a special session (with Melissa Medina, University of Oklahoma) at the American Association of Colleges of Pharmacy (AACP) annual meeting, 2017, Nashville, TN

30. *“Developing an Innovative, Comprehensive First-1 Year Capstone to Assess and Improve Student Learning and Curriculum Effectiveness”*
 - Presented as the Assessment Award (with Heidi Anksorus, Jessica Greene and Jacqui McLaughlin) at the American Association of Colleges of Pharmacy (AACP) annual meeting, 2017, Nashville, TN
31. *“From classroom active learning innovations to publication”*
 - Presented as a special session (with Gayle Brazeau, University of New England) at the American Association of Colleges of Pharmacy (AACP) annual meeting, 2017, Nashville, TN
32. *“Lessons from the ground on active learning”*
 - Presented as a special session at the American Association of Colleges of Pharmacy (AACP) annual meeting, 2017, Nashville, TN
33. *“Building Better Pedagogic Research: Laying the Foundation for the Scholarship of Teaching and Learning”*
 - Presented as a special session (with Jacqui McLaughlin, Antonio Bush and Frank Romanelli, University of Kentucky) at the American Association of Colleges of Pharmacy (AACP) annual meeting, 2017, Nashville, TN
34. *“Did it work or not? And how do I tell the world?!”*
 - Presented at the Teacher’s Seminar at the American Association of Colleges of Pharmacy (AACP) annual meeting, 2017, Nashville, TN
35. *“Combating the challenges of implementing active learning”*
 - Presented as a workshop (with Connie Remsberg, Washington State University) for the Transformation and Innovation of Pharmacy Education Institute, 2017, Spokane, WA
36. *“Using learned information to improve patient health: A guide to successful teaching & learning”*
 - Presented as an all-day workshop for the Duquesne University College of Pharmacy, 2017 Pittsburgh, PA
37. *“Developing self-directed learners – next steps”*
 - Presented as an all-day workshop for the Ohio Northern University College of Pharmacy, 2017, Ada, OH
38. *“COIT Seminar: Eating, sleeping and drinking: a guide to learning success”*
 - Presented as a seminar for the University of Arizona College of Pharmacy, Tucson, AZ, 2017
39. *“Guidelines and recommendations for evidence based practice in teaching”*
 - Presented as a workshop for the University of Arizona College of Pharmacy, Tucson, AZ, 2017
40. *“5 studies and 5 tips to enhance student learning”*
 - Presented as a concurrent session at the Lilly Conference on College Teaching, 2017, Austin, TX
41. *“Critical incidences in teaching and learning”*

- Presented as a concurrent session (with Todd Zakrajsek) at the Lilly Conference on College Teaching, 2017, Austin, TX
42. *“Redesigning a 300 level course to incorporate active learning”*
- Presented as a concurrent session at the Lilly Conference on College Teaching, 2017, Austin, TX
43. *“Moving from novice to expert and its implications for instruction”*
- Presented as a concurrent session at the Lilly Conference on College Teaching, 2016, Traverse City, MI
44. *“Flipping the health science classroom”*
- Presented as a seminar for Campbell University, 2016, Buies Creek, NC
45. *“Ins and Outs of Academic Pharmacy”*
- Presented as a special session at the American Association of Colleges of Pharmacy annual meeting, 2016, Anaheim, CA
46. *“5 minute faculty teaching development”*
- Presented as a mini-session (with Seena Haines, Univ of Mississippi Jenny Van Amburgh, Northeastern Univ, and Sue Stein, Pacific Univ.) at the American Association of College of Pharmacy annual meeting, 2016, Anaheim, CA
47. *“Applying cognitive psychology to teaching and learning”*
- Presented as a symposium (with Andrew Butler, Univ. of Texas; and John Dobson, Georgia Southern Univ) of at the American College of Sports Medicine (ACSM) Annual Meeting, 2016, Boston, MA
48. *“Strategies to supercharge students and clients”*
- Presented as a webinar for the Canadian Dental Hygienist Association, 2016
49. *“Flipping the health science classroom”*
- Presented as a seminar for Campbell University, 2016, Buies Creek, NC
50. *“Active learning: Enhancing participation across the curriculum”*
- Presented a seminar at Wayne State University College of Pharmacy, 2016, Detroit, MI
51. *Getting students to prepare for class”*
- Presented as a workshop for the Department of Psychology, University of North Carolina at Chapel Hill, 2016, Chapel Hill, NC
52. *“The flipped classroom: implementing the research on learning”*
- Presented as an all-day workshop at Marshall University College of Pharmacy, 2016, Huntington, WV
53. *“Classroom games in pharmacokinetics”*
- Presented as a webinar for the American Association of Colleges of Pharmacy, 2016
54. *“Applying cognitive psychology for learner success”*
- Presented as a 2 day workshop for Baylor University, 2016, Waco, TX

55. *“Developing self-directed learners”*
 - Presented as a workshop for the Ohio Northern University School of Pharmacy, 2016, Ada, OH
56. *“Scholarship of teaching and learning for the everyday instructor”*
 - Presented as a seminar at University of Arkansas Medical Sciences, 2016, Little Rock, AR
57. *“Teaching critical thinking in pharmacy”*
 - Presented as a seminar at Rosalind Franklin College of Pharmacy, 2015, North Chicago, IL
58. *“Reflecting on Teaching: Approaches to Course Evaluation”*
 - Presented as a seminar (with Viji Sathy, UNC Psychology and James Thompson, UNC Sociology) at the Center for Faculty Excellence’s Faculty Showcase, 2015, Chapel Hill, NC
59. *“Improving student engagement through evidence based teaching”*
 - Presented as an all-day workshop at Midwestern University College of Pharmacy, 2015, Downers Grove, IL
60. *“Curiosity in Teaching: How do we educate the next generation of exercise scientists”*
 - Presented as an invited session at the New England Chapter of the American College of Sports Medicine, 2015, Providence, RI
61. *“Defining, Developing and Assessing Metacognition to enhance learning and retention”*
 - Presented as a special session at the American Association of Colleges of Pharmacy annual meeting, 2015, National Harbor, MD
62. *“Educational Best Practices and Professional Development Roundtables: Transforming what you do in the classroom into publishable SoTL”*
 - Presented as a roundtable discussion at the American Association of Colleges of Pharmacy annual meeting, 2015, National Harbor, MD
63. *“Joseph DiPiro Excellence in Publishing Workshop”*
 - Presented as a pre-conference workshop at the American Association of Colleges of Pharmacy annual meeting, 2018, Boston, MA
 - Presented as a pre-conference workshop at the American Association of Colleges of Pharmacy annual meeting, 2017, Nashville, TN
 - Presented as a pre-conference workshop at the American Association of Colleges of Pharmacy annual meeting, 2016, Anaheim, CA
 - Presented as a pre-conference workshop at the American Association of Colleges of Pharmacy annual meeting, 2015, National Harbor, MD
64. *“Improving the training of the student-pharmacist: now and the future”*
 - Presented as a workshop at the University of Tennessee College of Pharmacy, 2015, Memphis, TN
65. *“Evidence-based education in Experiential Training”*

- Presented as a continuing education seminar at the Southern Regional Area Health Education Center (AHEC), 2015, Fayetteville, NC
66. *“Designing High Structure Active Learning Courses: Flipping and other models”*
- Presented as an all-day workshop at the Washington State University College of Pharmacy, 2015, Spokane, WA
67. *“Teaching with skeletal note workbooks”*
- Presented as a concurrent session at the Lilly Conference on College Teaching, 2015, Austin, TX
68. *“Lecture is not dead; lecturing in a flipped society”*
- Presented as a concurrent session at the Lilly Conference on College Teaching, 2015, Austin, TX
69. *“Why our experiences are not enough: using evidence-based teaching practice for more effective learning”*
- Presented as a plenary session at the Lilly Conference on College Teaching, 2014, Traverse City, MI
70. *“Combating the Dr. Oz Effect: Teaching Critical thinking in Self-Care*
- Presented as a concurrent session (with Cydney McQueen, University of Missouri – Kansas City and Bella Mehta, The Ohio State University) at the national meeting of the American Association of Colleges of Pharmacy, 2014, Grapevine, TX
71. *“Where we’ve been, where we are headed: evolution of synchronous learning environment”*
- Presented as a workshop at the South Carolina College of Pharmacy, 2014, Santee, SC
72. *“Case studies in student leadership”*
- Presented as a seminar at the North Carolina Association of Pharmacists student leadership meeting, 2014, Pinehurst, NC
73. *“Active Learning: From Theory to Practice”*
- Presented as an all-day workshop at College of Pharmacy, University of Washington, 2014, Seattle, WA
74. *“Overcoming the Dr. Oz Effect: Teaching Critical thinking in Dental Care”*
- Presented as a workshop at the University of North Carolina School of Dentistry, 2014, Chapel Hill, NC
75. *“Evidence behind course evaluations”*
- Presented as a seminar at the Department of Psychology, University of North Carolina at Chapel Hill, 2014, Chapel Hill, NC
76. *“The Scoop on Active Learning”*
- Presented as an all-day workshop at Thomas Jefferson University, 2014, Philadelphia, PA
77. *“Learning to Risk, Risking to Learn: Innovation and Research in the Classroom”*
- Presented as an all-day workshop at Indiana University Purdue University – Fort Wayne, 2014, Fort Wayne, IN

78. *“Strategies for effective teaching and learning”*
 - Presented as an all-day workshop at Bainbridge State College, 2014, Bainbridge, GA
79. *“Motivation to learning: From Student to Faculty”*
 - Presented as a webinar for University of Washington, 2014, Seattle, WA
80. *“Developing better pharmacists: strategies to improve student learning”*
 - Presented as an all-day workshop at the University of Iowa College of Pharmacy, 2014, Cedar Rapids, IA
81. *“Developing your scholarship of teaching and learning”*
 - Presented (with Kim Reich, High Point University) as a tutorial lecture for the annual meeting of the American College of Sports Medicine, 2014, Orlando, FL
82. *“Experience is not enough: teaching with the evidence to improve student learning”*
 - Presented as an all-day workshop at the Southwest Oklahoma State University College of Pharmacy, 2014, Weatherford, OK
83. *“How learning works: the evidence to improve student learning”*
 - Presented as a seminar at University of Arkansas Medical Sciences University, 2014, Little Rock, AR
84. *“Evidence that will change the way you teach”*
 - Presented as a workshop at the University of Arkansas College of Pharmacy, 2014, Little Rock, AR
 -
85. *“From lab to the classroom: translating research into practice with the “flipped” classroom”*
 - Presented as a seminar at the University of Nebraska Medical Center, 2014, Omaha, NE
86. *“Mistakes students make: a flipping experience”*
 - Presented as a workshop at the University of Nebraska College of Pharmacy, 2014, Omaha, NE
87. *“The foundation of flipping: how learning works”*
 - Presented as a workshop at East Tennessee State University College of Pharmacy, 2014, Johnson City, TN
88. *“How Students Learn”*
 - Presented as a workshop for the School of Nursing, University of North Carolina, 2013, Chapel Hill, NC
89. *“Taking the next step: Integrating evidence-based teaching”*
 - Presented as a workshop Campbell University College of Health Sciences and Pharmacy, 2013, Morrisville, NC
90. *“The evidence behind the 7 principles of good practice”*
 - Presented as a workshop at the Lilly Conference, 2014, Austin, TX
91. *“Training the next generation of exercise scientists: strategies to improve student learning”*

- Presented as a seminar for annual meeting of the Mid-Atlantic American College of Sports Medicine, 2013, Harrisburg, PA
92. *“Team-based learning: foundations for its use”*
- Presented as an all-day workshop for Xavier University of Louisiana College of Pharmacy, 2013, New Orleans, LA
93. *“Getting Students to be [highly] competent”*
- Presented as a workshop for Washington State University College of Pharmacy, 2013, Spokane & Pullman, WA
94. *“Innovation in Teaching Practice: What can I do now?”*
- Presented as a workshop for Westfield State University, 2013, Westfield, MA
95. *“Eat, Drink (Sleep) and be Merry in College: A guide to learning success*
- Presented (with Jeannie Loeb, University of North Carolina) as a concurrent session for the Lilly Conference on College Teaching, 2013, Traverse City, MI
96. *Getting to the root of the problem: misconceptions about learning”*
- Presented as a concurrent session for the Canadian Dental Hygienist Association national meeting, 2013, Toronto, CA
97. *“Energize your roots, spread their wings”*
- Presented as a pre-conference workshop for the Canadian Dental Hygienist Association national meeting, 2013, Toronto, CA
98. *“Enhancing motivation to effective teaching and learning”*
- Presented (with Andrew Franks, University of Tennessee; Kristen Janke, University of Minnesota, University of Minnesota) as a special session for the American Association of Colleges of Pharmacy (AACP) annual meeting, 2013, Chicago, IL
99. *“The 5-minute workshop: examples and considerations”*
- Presented as a mini-session for the American Association of Colleges of Pharmacy (AACP) annual meeting, 2013, Chicago, IL
100. *“Strategies for effective teaching and learning”*
- Presented as a pre-conference workshop for the American Association of Colleges of Pharmacy (AACP) annual meeting, 2013, Chicago, IL
101. *“Does practice matter?”*
- Presented at the Lilly Conference on College Teaching, 2013, Greensboro, NC
102. *“The Scholarship of Teaching and Learning: What can I do on Monday?”*
- Presented as a webinar for the Laboratory Special Interest Group of the American Association of Colleges of Pharmacy (AACP), 2013
103. *“The Entitled Student: Reasons, Implications, & Recommendations”*
- Presented (with Jeff Cain, Kelly Smith, Frank Romanelli, University of Kentucky) as a special session at the national meeting of the American Association of College of Pharmacy (AACP), 2012, Kissimmee, FL

104. *“Mischief Managed: Spells and Charms to Make Team-Based Learning More Magical”*
 - Presented (with Michelle Farland, University of Tennessee; Andrea Franks, University of Tennessee; Karen Pater, University of Pittsburgh; Brigitte Sicat, Virginia Commonwealth University; Melissa Medina, University of Oklahoma) as a special session at the national meeting of the American Association of College of Pharmacy (AACP), 2012, Kissimmee, FL
105. *“Factors that Affect Student Classroom Attendance: Perceptions of Students and Faculty in Colleges of Pharmacy”*
 - Presented (with Monica Skomo, Duquesne University; Canio Marasco, D’Youville University; Bryon May, Campbell University; Jennifer Kirwan, Northeastern University; Kathleen Kennedy, Xavier University of Louisiana) as a special session at the national meeting of the American Association of College of Pharmacy (AACP), 2012, Kissimmee, FL
106. *“Teaching Teachers How to Teach: Golden Nuggets for Effective Teaching”*
 - Presented (with Sue Stein, Pacific University; Jenny Van Amburgh, Northeastern University; Linda McLean, Washington State University) as a special session at the national meeting of the American Association of College of Pharmacy (AACP), 2012, Kissimmee, FL
107. *“The Student Pharmacist “Workout”: Strength Finders and Leadership Development”*
 - Presented as a workshop at the North Carolina Association of Pharmacists Student Leadership Conference, 2012, Pinehurst, NC
108. *“Understanding the Basics of Student Learning”*
 - Presented as a workshop at the new faculty orientation, Center for Faculty Excellence, University of North Carolina, 2012, Chapel Hill, NC
109. *“What the research tells us about learning and how can we use it”*
 - Presented as an all-day workshop at Purdue University School of Pharmacy faculty retreat, 2012, West Lafayette, IN
110. *“Evidence-Based Teaching: Studies Directly Related to Student Learning”*
 - Presented as a workshop at the American Dental Hygienist Association national meeting, 2012, Phoenix, AZ
111. *“The pharmacology of learning enhancement”*
 - Presented at the International Lilly Conference on College Teaching, 2012, Miami, OH
112. *“The Science of Learning and Teaching: from Research to Practice”*
 - Presented (with Andrea Franks, University of Tennessee; Melissa Medina, University of Oklahoma) as a special session at the national meeting of the American Association of Colleges of Pharmacy (AACP), 2011, San Antonio, TX
113. *“A Linda DeVore Lecture: Evidence-Based Teaching: Studies Directly Related to Student Learning”*
 - Presented as a workshop at the American Dental Hygienist Association national meeting, 2011, Nashville, TN

114. *“Advancing Health through Education: Evidence-based Education in Exercise Science”*
 - Presented as a tutorial lecture at the national meeting of the American College of Sports Medicine (ACSM), 2011, Denver, CO
115. *“Applying the Science of Learning in Large Classes: Use of Team-based Learning”*
 - Presented at the International Lilly Conference on College Teaching, 2011, Miami, OH
116. *“Applying the Science of Learning”*
 - Presented as a workshop at the University of North Carolina, 2011, Chapel Hill, NC
117. *“Rather discuss than lecture? Methods to Help Promote Student Engagement in Any Size Class”*
 - Presented as a concurrent session at the Lilly Conference on College and University Teaching, 2011, Greensboro, NC
118. *“Studies Directly Related to Student Learning: Translating Research to Practice”*
 - Presented as a seminar at the Mountain Area Health Education Center resident teaching certificate program, 2011, Asheville, NC Mountain Area Health Education Center
119. *“What the research tells us about learning: what might we be overlooking?”*
 - Presented as opening plenary at Johnson and Wales University, 2011, Charlotte, NC
120. *“Strategies for promoting student engagement in any size class”*
 - Presented as a workshop at Johnson and Wales University, 2011, Charlotte, NC
121. *“Engaging Students in the Classroom: Active and Cooperative Learning Strategies”*
 - Presented as a workshop at Duke University, 2011, Durham, NC
122. *“Improving pharmacy education through evidence based practices”*
 - Presented as a workshop at the South Carolina College of Pharmacy faculty retreat, 2010, Charleston, SC
123. *“Teaching to think: cooperative learning in large classrooms”*
 - Presented as a workshop at Duke University Center for Instructional Technology, 2010, Durham, NC
124. *“How to be an effective mentor”*
 - Presented as a panel discussion as part of the Center for Faculty Excellence, University of North Carolina, 2010, Chapel Hill, NC
125. *Teaching@distance.edu: 3 studies that will change your teaching practice*
 - Presented as a workshop at the South Carolina College of Pharmacy, 2010, Charleston, SC
126. *“Anti-inflammatories: the good, the bad and the ugly”*
 - Presented as a continuing education seminar as part of the Friesen Physio Fitness Conference, 2010, Raleigh, NC
127. *“Evidence-based learning: applied research findings pertaining to how students learn”*

- Presented (with Todd Zakrajsek, Center for Faculty Excellence, UNC) as a closing plenary session at the Lilly Conference on College and University Teaching, 2010, Greensboro, NC
128. *“Teaching to think: cooperative learning in large classes”*
- Presented (with Wendy Cox) as a special session at the national meeting of the American Association of Colleges of Pharmacy (AACP), 2009, Boston, MA
129. *“Integrating exercise science and pharmacy: more than just making better athletes”*
- Presented as a seminar at the University of Massachusetts-Amherst Department of Kinesiology, 2009, Amherst, MA
130. *“Teaching with technology: video conferencing”*
- Presented as a continuing education workshop as part of “Nurses: Technology Savvy Educators”, School of Nursing, University of North Carolina, 2009, Chapel Hill, NC
131. *“Getting off the pedagogical couch: teaching exercise science in the 21st century”*
- Presented as a colloquium at the national meeting of the American College of Sports Medicine (ACSM), 2009, Seattle, WA
132. *“Can medications and exercise have opposing effects? A discussion of the physiologic changes when medications and exercise are combined”*
- Presented (with Barry Braun, University of Massachusetts – Amherst) as a tutorial lecture at the national meeting of the American College of Sports Medicine (ACSM), 2009, Seattle, WA
133. *“Bringing experiential education into the classroom: service-learning in a professional program”*
- Presented (with Huyla Coker and Joan Settlemyer) as a concurrent session at the Lilly Conference on College and University Teaching, 2009, Greensboro, NC
134. *“Teaching the next generation of learners”*
- Presented as a workshop at the Pediatric Pharmacy Advocacy Group (PPAG) meeting (2008), Baltimore, MD
135. *“Can my food choices and exercise habits impact my medications?”*
- Presented as a Symposium at the Mid-Atlantic Regional Meeting of the American College of Sports Medicine (ACSM), 2008, Harrisburg, PA
136. *Weight management options: exercise and supplements.”*
- Presented as a continuing education course “Trim the Fat: Making your patient the biggest loser” for the Area L Area Health Education Center (AHEC), 2008, Rocky Mount, NC
137. *“Is doping really cheating? The history and controversy of performance enhancing drugs in sport”*
- Presented (with Eric Rawson, Bloomsburg University) as a Symposium at the Mid-Atlantic Regional Meeting of the American College of Sports Medicine (ACSM), 2008, Harrisburg, PA

138. *“Educating the Next Generation of Pharmacy Students: An Educational Renaissance at the UNC Eshelman School of Pharmacy”*
 - Presented (with Gary Pollack, Bob Blouin, Pam Joyner) as a Special Session at the American Associations of Colleges of Pharmacy (AACP) National Meeting 2008, Chicago, IL
139. *“Drug Interaction: Exercise, Herbs and Nutrients”*
 - Presented as a Tutorial Lecture at the American College of Sports Medicine (ACSM) National Meeting, 2008, Indianapolis, IN
140. *“The ITS Teaching and Learning First Partners Program: Content Designed for the Digital Native”*
 - Presented as a panel discussion at the Teaching and Learning with Technology Conference, 2007, Raleigh, NC
141. *“Weight management: magic bullets and exercise”*
 - Presented as a continuing education course “The Pharmacists Role in Obesity Management” for the Charlotte (North Carolina) Area Health Education Center (AHEC), 2007, Charlotte, NC
142. *“Creatine Supplementation: Magic Bullet or Snake Oil”*
 - Presented (with Eric Rawson, Bloomsburg University) as a Symposium at the Mid-Atlantic Regional Meeting of the American College of Sports Medicine (ACSM), 2005, Harrisburg, PA
143. *“Detecting Adverse Events in Dietary Supplement Research”*
 - Presented (with Eric Rawson, Bloomsburg University) as a Tutorial Lecture at the American College of Sports Medicine (ACSM) National Meeting, 2005, Nashville, TN
144. *“Dietary supplements: whose responsible, nutrition or pharmacy?”*
 - Department of Exercise Science, University of North Carolina at Chapel Hill, 2004, Chapel Hill, NC
145. *“Weight loss, weight gain and dietary supplements: the role of pharmaceuticals”*
 - Department of Pharmaceutical Sciences, South University, 2004, Savannah, GA
 - Department of Pharmaceutics, Virginia Commonwealth University, 2004, Richmond, VA.
 - Department of Biopharmaceutical Sciences, Shenandoah University, 2004, Winchester, VA
146. *“Single dose and steady-state pharmacokinetics of oral creatine”*
 - Presented as a free communication at the American College of Sports Medicine (ACSM) National Meeting, 2002, St. Louis, MO
147. *“Clinical pharmacokinetics of the dietary supplement creatine”*
 - Department of Pharmacy Practice and Pharmaceutical Sciences, State University of New York at Buffalo, 2002, Amherst, NY
148. *“Single dose and steady-state pharmacokinetics of oral creatine”*
 - Presented as a free communication at the American College of Sports Medicine (ACSM) National Meeting, 2002, St. Louis, MO

149. *“Clinical pharmacokinetics of the dietary supplement creatine”*
- Division of Drug Delivery and Disposition, University of North Carolina, 2002, Chapel Hill, NC
150. *“Single dose and steady-state pharmacokinetics of the dietary supplement creatine monohydrate “*
- Presented at the annual scientific forum, Experimental and Applied Science, Inc (EAS), 2001, Golden, CO
151. *“Dose-response relationship of ethanol in skeletal muscle and the effects of creatine supplementation”*
- Department of Neuroscience, Univ. of Florida, 1999, Gainesville, FL

MEDIA APPEARANCES

1. *A reality check for imposter syndrome*
 - Psychology Today, 2019
<https://www.psychologytoday.com/us/blog/brainstorm/201911/reality-check-imposter-syndrome>
2. *Insights for Creating and Delivering an effective Scientific Conference Poster*
 - IDStewardship.com, 2017 <https://www.idstewardship.com/insights-for-creating-and-delivering-an-effective-scientific-conference-poster/>
3. *Promoting a Civil Learning Environment*
 - Association of College and University Educators, 2016
4. *Flipped classroom – a model for the future?*
 - University of Nebraska Medical Center Newsroom, 2007,
<https://www.unmc.edu/news.cfm?match=12626>
5. *Blending tomorrow and today*
 - Academic Pharmacy Now, 2014

TEACHING ACTIVITIES (past 5 years)

| Term | Year | Title (course number) | Credit, Type | Approximate Enrollment | Teaching Responsibility |
|--------|------|--------------------------------------------------|--------------------------|------------------------|----------------------------------------------|
| Fall | 2019 | Teaching and Learning Certificate Program | 0, Residents and Fellows | 45 | Director, 30 hours |
| Fall | 2019 | Pharmacy Bridging Course – Physiology (PHCY 500) | 2, Required PharmD | 160 | Overall Director & Module Director, 30 hours |
| Spring | 2019 | Research and Scholarship in Pharmacy (RASP) | 3.0, Elective, PharmD | 35 | Instructor, 1.5 hours |

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|--------|------|--------------------------------------------------|-----------------------|------------------|---------------------------|
| Spring | 2019 | Foundations in Pharmacokinetics (PHCY 511) | 3.0, Required PharmD | 160 | Director, 45 hours |
| Spring | 2019 | Health Care Communication (PACE 811) | 2, Elective PharmD | 25 | Instructor, 3 hours |
| Spring | 2018 | Research and Scholarship in Pharmacy (RASP) | 3.0, Elective, PharmD | 35 | Instructor, 1.5 hours |
| Spring | 2018 | Foundations in Pharmacokinetics (PHCY 511) | 3.0, Required PharmD | 160 | Director, 45 hours |
| Spring | 2018 | Health Care Communication (PACE 811) | 2, Elective PharmD | 25 | Instructor, 3 hours |
| Fall | 2017 | Applied Pharmacology | 3, Required PharmD | 160 | Instructor, 2 hours |
| Fall | 2017 | Pharmacy Bridging Course – Physiology (PHCY 500) | 2, Required PharmD | 160 | Course director, 11 hours |
| Spring | 2017 | Health Care Communication (PACE 811) | 2, Elective PharmD | 25 | Instructor, 3 hours |
| Spring | 2017 | Integrative Pharmacotherapy (PHCY 630) | 5, Required PharmD | 10 (small group) | Facilitator, 32 hours |
| Spring | 2017 | Foundations in Pharmacokinetics (PHCY 511) | 3.5, Required PharmD | 160 | Director, 45 hours |
| Fall | 2017 | PIPS (PHCY 622) | 4, Required PharmD | 10 | Facilitator, 12 hours |
| Spring | 2016 | Clinical Pharmacokinetics (PHCY 82/414) | 3, Required PharmD | 160 | Co-director 0 hours |
| Spring | 2016 | Foundations in Pharmacokinetics (PHCY 511) | 3.5, Required PharmD | 160 | Director, 45 hours |
| Fall | 2016 | Applied Pharmacology | 3, Required PharmD | 160 | Instructor, 2 hours |
| Fall | 2016 | Health Care Communication (PACE 811) | 2, Elective PharmD | 25 | Instructor, 3 hours |
| Fall | 2016 | Pharmacy Bridging Course – Physiology (PHCY 500) | 2, Required PharmD | 160 | Course director, 5 hours |

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|--------|------|--------------------------------------------------|--------------------|-----|---------------------------|
| Fall | 2016 | PIPS (PHCY 622) | 4, Required PharmD | 10 | Facilitator, 12 hours |
| Spring | 2015 | Clinical Pharmacokinetics (PHCY 82/414) | 3, Required PharmD | 160 | Co-director, 2 hours |
| Fall | 2015 | Foundations in Pharmacokinetics (PHCY 72) | 3, Required PharmD | 160 | Course Director, 45 hours |
| Fall | 2015 | Pharmacy Bridging Course – Physiology (PHCY 500) | 2, Required PharmD | 160 | Course director, 7 hours |
| Spring | 2014 | Clinical Pharmacokinetics (PHCY 82/414) | 3, Required PharmD | 160 | Co-director, 2 hours |
| Fall | 2014 | Foundations in Pharmacokinetics (PHCY 72) | 3, Required PharmD | 160 | Course Director, 45 hours |
| Fall | 2014 | Physiology (PHCY 203) | 4, Required PharmD | 170 | Course Director, 8 hours |

GRADUATE COMMITTEES

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Eric Trexler (Committee member), Department of Exercise and Sport Science | Completed 2018 (PhD) |
| Trey Thompson (Committee Chair), School of Pharmacy, <i>“The I/LnJ Inbred Mouse Strain – A Model for Addictive Behavior?”</i> | Completed 2016 (MS) |
| Eric Trexler (Committee member), Department of Exercise and Sport Science, <i>“Effects of creatine, coffee, and caffeine anhydrous on strength and sprint performance”</i> | Completed 2015 (MS) |
| Jason Whitley (Committee member), School of Journalism and Mass Communication, <i>“Diagnosing Your Doppelgänger”</i> | Completed 2014 (MS) |
| Jeannie Padowski (Committee Member), School of Pharmacy, <i>“A multi-factorial approach to understanding and predicting brain exposure to pharmacologic agents”</i> | Completed 2012 (PhD) |
| Tae Eun Kim (Committee Chair), School of Pharmacy, <i>“The impact of pharmacodynamic parameters on prediction of clinical outcome in HIV-1 infected patients and HCV patients with HIV co-infection”</i> | Completed 2011 (PhD) |
| Emily Olson (committee Member), School of Pharmacy, <i>“Parametric and non-parametric approaches to quantitating pharmacodynamic response”</i> | Completed 2007 (PhD) |

HONORS & STUDENT RESEARCH PROJECTS

- 2019 Liza Schimmelfing
“Can multiple choice distractors activate marginal knowledge?”
The major goal is to determine if a distractor within the lures of a multiple choice test can reactivate knowledge that is stored in memory but not readily accessible (ie, marginal knowledge)
- 2018-2019 Edward Lee (c/o 2021)
“Student perceptions of learning compared to actual learning gains”
The major goal is to determine if student perception of learning gains is a viable surrogate for research purposes for actual learning gains
- 2017-2019 Shannon Palmer (c/o 2019)
Youn Chu (c/o 2019)
“Is restudying from recorded lecture a more cost-effective learning strategy compared to retrieval practice?”
The major goal is to determine if long-retention of information is better after students restudy from recorded lecture or use retrieval practice strategies
- 2017-2018 Arwa Omary (c/o 2018)
“Does working memory performance change over the course of the semester: influence of stress and fatigue”
The major goal is to determine if working memory performance changes throughout a semester as a function of stress or fatigue.
- 2017-present Yanying Yang (c/o 2020) (RASP student)
Karl Kodweis (c/o 2020)
The major goal is to determine the impact of worked examples on clinical note writing skills.
- 2016-2017 Kim Murphy (c/o 2018)
“What are the barriers to students transferring their learning from basic sciences to their pharmacy equivalents”
The major goal is to determine what are the barriers for students to transfer their knowledge of basic chemistry and physiology to pharmacokinetics and pharmaceutical examples
- 2016-2017 Isabell Kang (c/o 2018)
“*Is there a relationship between admissions MMI and personality traits*”
The major goal is to explore if there is a relationship between the attributes assessed at admission through multiple mini interview and student personality traits
- 2015-2017 Bianka Patel (c/o 2018)(honors student)
“*Does knowing there are recorded lectures impact learning positively or negatively*”
The major goal is to determine if students know they have access to recorded classes after class, do they preserve cognition resources for deeper learning or more shallow learning”
- 2015 - 2016 Cait Kulig (c/o 2018)(honors student)
“*Transition problems in the PharmD program: underlying factors*”
The major goal is to determine if parental attachment and distance moved from home are important factors is student transition to a professional program
- 2014-present James Terenyi (c/o 2018)(honors student)

“Impact of spacing schedule on retention of name brand-generic information”

The major goal is to determine how spacing of practice impacts retention of Top 200 drug material in an authentic, self-paced course

Summer 2015 Hanna Mierzwa (c/o 2017)

“Factors that impact students time to complete an examination”

The major goal is to determine the influence of prior knowledge, metacognitive accuracy and personality on time to complete examinations

Summer 2015 Abby Hogg (c/o 2017)

“Are characteristics of preclass reading material predictive of preclass study time”

The major goal is to determine if characteristics of reading material (word count, readability index, etc) determines the preclass study time in the flipped classroom

2014-2015 Katherine Campbell (c/o 2017) (honors student)

“Stabilizing marginal knowledge in a classroom environment”

The major goal is to determine an efficient method to reactive knowledge for previous learned material in an authentic class setting

2012-2015 Monique Conway (c/o 2015)

“Gentamicin pharmacokinetics in asphyxiated neonates: does cooling further reduce clearance?”

The major goal is to characterize if neonatal patients that are cooled have different pharmacokinetics of genatmicin than non-cooled when you control for birthweight and APGAR

2010 - 2013 Ashley Hedges (c/o 2014)(honors student)

“Trends and barriers to service-learning”

The major goal is to detail the use of service learning amongst faculty and preceptors at the UNC Eshelman School of Pharmacy and develop material to reduce barriers to developing service-learning activities

2010 - 2013 Leigh Ann Taylor (c/o 2014)(honors student)

“Vitamin D Status and Neuromuscular Injury in Collegiate Athletes”

The major goal of this study is to obtain preliminary data on whether vitamin D status in college-aged varsity athletes impacts recovery from neuromuscular injury

2006-2008 Wes McCall (c/o 2008)(honors student)

“Development of an HPLC assay to measure creatine”

The major goal is to develop an assay to measure plasma creatine for use in a clinical study

ADVANCED PHARMACY PRACTICE EXPERIENCES

2019-2020 Karl Kodweis
Liza Schimmelfing
Laura Bobbitt

2018-2019 Bliss Green
Mackenzie Dolan

| | |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 2017-2018 | Arwa Omary Sabrina Dunham Vivian Cheng |
| 2016-2017 | Shelby Hudson Taylor Pasley Kathryn Campbell Brittney Roberts |
| 2015-2016 | Rupal Kasbekar Kerri McEnroe Ivy Lio Adria Fecteau Emily Griffin |
| 2014-2015 | Monique Conway Jayme Hostetter Amanda Keeler Josh Mosteller Sheryl Payne Johanna Roberston Alan Stover, Sarah Timaeaus |
| 2013-2014 | Zach Tackett Sara Cox Ashley Campbell Brian Decker Jackie Zeema Breanna Ross Brian Casciere |
| 2012-2013 | Maya Wai Jamie Seebaly Lee Davis Trey Thompson Von Perez Felder Megan Smith |
| 2011-2012 | Elizabeth Alford Juliana Kyle Sarah Boshamer Anne Eudy Peter Zolas |
| 2010-2011 | Paul Cubita Prince Yabani Amy Hodorowicz |
| 2009-2010 | Kris Rusinko |

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|-----------|------------------------------------------------------------------------------------------|
| | Brian Murray Allison Billock Benyam Mulunah Maurice Alexander Portia Overton |
| 2008-2009 | Bruen Beek Sara Dawson Lindsay Jacobs |
| 2007-2008 | Mathew Zanation Jennifer Broders |
| 2006-2007 | Aaron Bender Katie McCall Russell Moore |

PHARMACY PRACTICE RESIDENTS

| | |
|-----------|----------------------------------------------------|
| 2017-2018 | Lindsey Splinter Jacqueline Pyle |
| 2015-2016 | Breanne Roess Kelly Mullican Rachel Lee |
| 2014-2015 | Molly Howard |
| 2013-2014 | Jennifer Simon |
| 2012-2013 | Justinne Guyton |
| 2011-2012 | Jamie Cavanaugh |
| 2010-2011 | Marcy Delmonte |
| 2009-2010 | Katherine Gerrald Allison Blackmer Stacy Eon |
| 2008-2009 | Lauren McNight |
| 2007-2008 | Katie Kiser |

GRANTS & SCHOLARSHIPS - COMPLETED

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Aug 2018 – July 2019 | American Association of Colleges of Pharmacy (PI: Adam Persky, PhD) <i>“Use of worked examples and problem solving to teach clinical note writing”</i> |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|

Jan 2007 – Dec 2008 Carolina Pharmacy Association (PI: Bob Blouin, PharmD, Gary M. Pollack, PhD)
“Capitalizing on the Strengths of the Contemporary Student: Identifying and Educating Critical Thinkers in the Pharmacy Arena”
\$250,000
Role: Co-Investigator

The major goal of this research is to pursue a pilot project to develop multimedia instructional modules for two-semester pharmacokinetics sequence in the PharmD curriculum and to develop approaches for measuring critical thinking and problem solving skills

July 2005 – June 2008 University Research Council – University of North Carolina at Chapel Hill
“Age Related Changes in Skeletal Muscle Uptake of Creatine”
\$4000
Role: Principal Investigator

The major goal of this research is to determine the feasibility of using proton nuclear magnetic resonance spectroscopy to elucidate pharmacokinetic changes in muscle creatine after oral dosing.

April 2005-March 2009 NIH RFA-GM-05-006 (PI: Gary M. Pollack, PhD)
“Short Course: Integrative and Organ Systems Pharmacology”
\$602,113
Role: Course Coordinator

The major goal of this Course is to provide basic animal handling techniques and procedures in the study of whole animal and organ pharmacology

July 2001– June 2002 The Experimental and Applied Science (EAS) Research Grant on Nutrition and Human Performance from the American College of Sport Medicine Foundation
“Steady-state pharmacokinetics of creatine monohydrate”
Amount: \$5000
Role: Principal Investigator

The major goals of this project were to determine the pharmacokinetics of oral creatine in blood after single and multiple doses and use microdialysis to measure interstitial muscle creatine levels.

July 1998– June 2001 NIAAA T32 AA07561 (PI: Marieta Heaton)
“Training in Alcohol and Neurodegenerative Disease”
Amount: Stipend/Tuition + \$2500 supplies/travel

The major goals of this project were to stimulate interest in research, education, and training related to mechanisms of alcohol toxicity, drug abuse and neurodegenerative disease. Research focused on the protective effects of creatine and phosphocreatine against alcohol-induced muscle myopathy.

GRANTS UNFUNDED

Title: The Effect of Recorded Lectures on Cognitive Resources, Note-taking, and Re-study: a Simulated Classroom Approach
Organization: Spencer Foundation
Role: Principal Investigator
Amount: \$48,813
Date: 2015

Title: The Effect of 5 Minute Faculty Development on Teaching Abilities.

Organization: Spencer Foundation
Role: Principal Investigator
Amount: \$49,898
Date: 2014

Title: Translational Education: From Laboratory to Classroom to Faculty and Student Development.

Organization: Spencer Foundation
Role: Principal Investigator
Amount: \$50,000
Date: 2013

Title: Impact of didactic training in exercise prescription on student confidence in counseling patients and personal exercise behavior

Organization: American Association of College of Pharmacy New Investigator Program
Role: Principal Investigator
Amount: \$10,000
Date: 2007

PROFESSIONAL AFFILIATIONS

American Association of Colleges of Pharmacy (AACP) (2005-present)

American College of Sports Medicine (ACSM) (1996-present)

American College of Sports Medicine – Southeast Chapter (SEACSM)(1998-present)

Association of Psychological Science (APS)(2014-2019)

Phi Lambda Sigma (PLS)

Psychonomics Society (2016-present)

SCIENTIFIC REVIEWER - PRESENT

- Advances in Health Sciences Education (2010-present)
- Advances in Medical Education and Practice (2014-present)
- Advances in Medical Sciences (2016-present)
- American Journal of Pharmaceutical Education (2004 – present)
- Applied Cognitive Psychology (2018-present)
- Creative Education (2015-present)
- Currents in Teaching and Learning in Pharmacy (2011– present)
- Educational Studies (2015-present)
- Innovations in Pharmacy (2012-present)
- Medical Education (2008-present)
- Studies in Higher Education (2019-present)

SCIENTIFIC REVIEWER - PREVIOUS

- American Journal of Kidney Disease
- Applied Physiology, Nutrition and Metabolism
- Archives of Physical Medicine and Rehabilitation
- Biochemia Medica
- Biochemical Journal
- British Journal of Clinical Pharmacology
- Clinical Journal of Sport Medicine
- Clinical Pharmacology and Therapeutics
- Clinical Science
- Food Chemistry
- International Journal of Obesity and Related Metabolic Disorders
- International Journal of Sports Medicine
- International Journal of Sports Nutrition and Exercise Metabolism
- International Sports Medicine Journal
- Journal of Applied Physiology
- Journal of Pharmaceutical Sciences
- Journal of Pharmacokinetic and Pharmacodynamics
- Journal of the American Medical Association (JAMA) (
- Mechanisms of Ageing and Development

EDITORIAL BOARDS

| | |
|-----------------------|---------------------------------------------------------------------------------------------------------|
| July 2014 - present | Associate Editor <i>American Journal of Pharmaceutical Education</i> |
| July 2013 – May 2014 | Guest Editor <i>American Journal of Pharmaceutical Education</i> Theme Issue: Faculty Development |
| April 2013 - present | Consulting Editor <i>College Teaching</i> |
| July 2011 – June 2014 | Member, Editorial Board <i>American Journal of Pharmaceutical Education</i> |
| Jan 2008 - Present | Member, Editorial Board <i>Brazilian Journal of Biomotricity</i> |
| Feb 2006 – Oct 2006 | Interim Associate Editor <i>Journal of Pharmaceutical Sciences</i> |
| July 1997 – June 1998 | Assistant Editor International Journal of Sport Nutrition |

PROFESSIONAL SERVICE - PRESENT

1. Member, Credentialing committee, American Association of Colleges of Pharmacy, 2019-present
2. Chair, Emerging Teaching Scholars committee, American Association of Colleges of Pharmacy, 2019-present
3. Chair-Elect, Council of Faculties, American Association of Colleges of Pharmacy, 2019-present
4. *Abstract Reviewer (posters)* American College of Sports Medicine (ACSM) National Meeting, 2008 – present
5. *Abstract Review (posters)*, Pharmacy Practice category, American Association of Colleges of Pharmacy national meeting, 2011-present

PROFESSIONAL SERVICE - PREVIOUS

1. *Member*, AACP COS Task Force for Best Practices in Quality Educational Programming, American Association of Colleges of Pharmacy, 2018-2019
2. *Mentor*, Mentoring Women to Fellowship, American College of Sports Medicine, 2018 - 2019
3. *Member*, Assessment Award, American Association of Colleges of Pharmacy, 2017-2018
4. *Chair*, Distinguished Teaching Scholar Award Committee, American Association of Colleges of Pharmacy, 2017-2018
5. *Member*, Emerging Teaching Scholars Award Committee, American Association of Colleges of Pharmacy, 2017
6. *Member*, Distinguished Teaching Scholars Award Committee, American Association of Colleges of Pharmacy, 2015-2016
7. *Member*, Task for Force: Establishing the Distinguished Teaching Scholars program, Faculty Affairs Committee, American Association of Colleges of Pharmacy, 2013-2015
8. *Chair*, Rules and Regulations Committee, Faculty Affairs Committee, American Association of Colleges of Pharmacy, 2014-2015
9. *Chair*, Session Thematic Poster (B-17): Physical Activity, Cognition and Emotion, American College of Sports Medicine (ACSM) National Meeting, 2015.
10. *Data Safety Monitoring Board (DSMB)*, Phase III trial of creatine for Huntington's Disease (PI: Steve Hersch), sponsored by National Center on Complementary and Alternative Medicine (NCCAM), 2008 – 2014
11. *Session proposal reviewer*, Professional and Organizational Development in Higher Education (POD) national meeting, 2011 – 2014
12. *Member*, Programming Sub Committee, Curriculum Special Interest Group, American Association of Colleges of Pharmacy, 2012-2013
13. *Member*, Quorum Committee, American Association of Colleges of Pharmacy, 2012
14. *Steering Committee*, A single center, Phase 1, open-label, dosage-escalation study of creatine monohydrate in amyotrophic lateral sclerosis (ALS), Neurology Clinical Trials Unit, Massachusetts General Hospital, 2006
15. *Student Poster Presentation Award Committee*, American College of Sports Medicine, Sports Nutrition Interest Group, 2004-2012.
16. *Chair*, Session G-41 Free Communication (slides): Supplements, American College of Sports Medicine (ACSM) National Meeting, 2006.
17. *Ad-hoc Chair*, H-33 Free Communication (slides): Aging and Muscle Physiology, American College of Sports Medicine (ACSM) National Meeting, 2004.

UNIVERSITY SERVICE - PRESENT

None

UNIVERSITY SERVICE - PREVIOUS

1. *Member*, QEP Steering Committee, University of North Carolina, 2017-2018
2. *Co-Chair*, University Teaching Awards, University of North Carolina, 2017-2018
3. *Pre-pharmacy Advisor*, University of North Carolina, 2013 - 2017
4. *Member*, Educational Innovation Working Group, University of North Carolina, 2016-2017
5. *Member*, Quality Enhancement Plan Board, University of North Carolina, 2017
6. *Member*, Taskforce to facilitate research on pedagogical innovation, University of North Carolina, 2016-2017
7. *Member*, Faculty Council, University of North Carolina, 2009-2017
8. *Member*, Faculty Executive Committee, University of North Carolina, 2014 - 2017
9. *Chair*, University Teaching Awards, University of North Carolina, 2016-2017
10. *Co-Chair*, Quality Enhancement Plan (QEP) Steering Committee, University of North Carolina, 2016-2017
11. *Member*, Search Committee, Director of the Quality Enhancement Plan, University of North Carolina, 2016
12. *Member*, Quality Enhancement Plan (QEP) Steering Committee, University of North Carolina, 2014-2016
13. *Member*, Search Committee Director of the Quality Enhancement Plan, University of North Carolina, 2016
14. *Member*, Fixed-Term Faculty Committee, University of North Carolina, 2012 - 2016
15. *Chair*, Board of Governors Award Subcommittee, Teaching Awards Committee, University of North Carolina, 2015-2016
16. *Chair*, Lifetime Mentor Award Subcommittee, Teaching Awards Committee, University of North Carolina, 2013-2015
17. *Member*, Lifetime Mentor Award Subcommittee, Teaching Awards Committee, University of North Carolina, 2012-2013
18. *Presenter*, Project Uplift, University of North Carolina at Chapel Hill, 2005 to 2014.
19. *Member*, Nominations Committee, University of North Carolina, 2014 - 2015
20. *Chair*, Fixed-Term Faculty Committee, University of North Carolina, 2013 - 2014
21. *Reviewer*, Large Class Transformation Grants, Center for Faculty Excellence, University of North Carolina, 2013
22. *Presenter*, New Faculty Orientation, Center for Faculty Excellence, University of North Carolina, 2012
23. *Co-Chair*, Faculty Learning Community on Engaging Large Classes, University of North Carolina, October 2011 –June 2014
24. *Member*, Dean of the Graduate School Review Committee for Re-appointment, University of North Carolina at Chapel Hill, 2012
25. *Member*, Search Committee, Director of the Center of Faculty Excellence, University of North Carolina, June 2011 – December 2011
26. *Mentor*, Carolina Leadership Development: Leadership Portfolio program, University of North Carolina at Chapel Hill, June 2010 – May 2011.
27. *Member*, Dean of the School of Pharmacy Review Committee for Re-appointment, University of North Carolina at Chapel Hill, 2007

SCHOOL SERVICE - PRESENT

1. *Member*, Full Professors Committee, School of Pharmacy, University of North Carolina, 2018-present
2. *Member*, Awards Day Committee, School of Pharmacy, University of North Carolina, 2010-present
3. *Mentor*, Campbell Mentoring program, School of Pharmacy, University of North Carolina, 2018-present
4. *Member*, ACPE Self-Study Steering Committee, School of Pharmacy, University of North Carolina, 2018-present
5. *Member*, *Educational Research Review Committee*, Eshelman School of Pharmacy, University of North Carolina, *January 2013 – present*
6. *Advisor*, Phi Lambda Sigma, School of Pharmacy, University of North Carolina, 2010-present.

SCHOOL SERVICE - PREVIOUS

1. *Member*, *Curriculum Innovation and Assessment Committee*, School of Pharmacy, University of North Carolina, 2017-2018
2. *Chair*, *Capstone Experience Planning Committee*, School of Pharmacy, University of North Carolina, 2015-2017
3. *Member*, Assessment Committee, School of Pharmacy, University of North Carolina, 2014 – 2017
4. *Member*, *Elective Curriculum Planning Committee*, University of North Carolina, 2014 –2016
5. *Member*, Curriculum Committee, Eshelman School of Pharmacy, University of North Carolina, 2014 – 2016
6. *Member*, Curriculum and Assessment Committee, Eshelman School of Pharmacy, University of North Carolina, 2012 – 2014
7. *Member*, Leadership, Excellence, And Development (LEAD) Program, Eshelman School of Pharmacy, University of North Carolina, 2009-2016
8. *Chair*, Scholarship Committee, Eshelman School of Pharmacy, University of North Carolina, *January 2013 – 2016*
9. *Member*, Search Committee for a co-funded faculty, Division of Pharmacy Advancement and Clinical Education, University of North Carolina, 2016
10. *Member*, *Partnership in Patient Care: Education Subcommittee*, Eshelman School of Pharmacy and UNC Hospitals, University of North Carolina, September 2011 to 2014
11. *Chair*, Student Recruitment Committee, Eshelman School of Pharmacy, University of North Carolina, *January 2013 – 2014*
12. *Advisor*, *Health Nuts Special Interest Group*, Eshelman School of Pharmacy, University of North Carolina, Summer 2012 – 2014
13. *Member*, Assessment Committee, Eshelman School of Pharmacy, University of North Carolina at Chapel Hill, 2004-2012.
14. *Member*, Curricular Transformation Steering Committee, Eshelman School of Pharmacy, University of North Carolina, January 2012 – December 2012
15. *Member*, Curricular Transformation Committee, Eshelman School of Pharmacy, University of North Carolina, September 2011 to January 2012
16. *Member*, Graduate Program Business Model Committee, Eshelman School of Pharmacy, University of North Carolina, October 2011 to January 2012
17. *Member*, Search Committee, Director of Professional Student Services, Eshelman School of Pharmacy, University of North Carolina, May 2011 –June 2011
18. *Member*, Strategic Planning Committee, Eshelman School of Pharmacy, University of North Carolina, March 2011-July 2011

19. *Chair*, Search Committee, Director of Educational Technology Research and Development, Eshelman School of Pharmacy, University of North Carolina, March 2011-June 2011
20. *Member*, Search Committee, Director of Student Services for UNC Eshelman School of Pharmacy – Asheville Campus, University of North Carolina, Jan 2011-April 2011
21. *Past Chair*, Curriculum Committee, Eshelman School of Pharmacy, University of North Carolina at Chapel Hill, Sept 2010 - 2012.
22. *Chair*, Curriculum Subcommittee, ACPE Self-Study, Eshelman School of Pharmacy, University of North Carolina, 2010-2011
23. *Chair*, Curriculum Committee, School of Pharmacy, University of North Carolina at Chapel Hill, January 2007-September 2010.
24. *Co-Chair*, State Employees Combined Campaign, University of North Carolina at Chapel Hill, 2006, 2009
25. *Team Captain*, State Employees Combined Campaign, University of North Carolina at Chapel Hill, 2008
26. *Member*, Fellowship Steering Committee, University of North Carolina at Chapel Hill, School of Pharmacy, Division of Pharmacotherapy and Experimental Therapeutics, 2005-present.
27. *Member*, Curriculum Committee, School of Pharmacy, University of North Carolina at Chapel Hill, 2005-2006.
28. *Director Clinical Pharmacokinetics/Pharmacodynamics Fellowship Program*. University of North Carolina at Chapel Hill, School of Pharmacy, Division of Pharmacotherapy and Experimental Therapeutics, 2007-08.
29. *Representative*, American Association of Colleges of Pharmacy, School of Pharmacy, University of North Carolina, 2005-7, 2009-10
30. *Member*, Progressions Committee, School of Pharmacy, University of North Carolina at Chapel Hill, 2004-2005.