

CURRICULUM VITAE

Carla McCaghren Allen, Ph.D., RT(R)(CT) ARRT

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WEBSITE: www.CarlaMAllen.com

- Context and updates about my research and related work
- Subscribe to updates and RSS feeds

PROFESSIONAL NETWORKS

- Twitter: [@CarlaMAllen](https://twitter.com/CarlaMAllen) (121 followers)
- Research Gate (**RG Score: 15.90, 20 citations**) https://www.researchgate.net/profile/Carla_Allen
- LinkedIn: <https://www.linkedin.com/in/carla-allen-b6669b1b/>
- Academia: <https://missouri.academia.edu/CarlaAllen>

SCHOLARLY CONTRIBUTIONS REGISTRIES

- ORCID: <http://orcid.org/0000-0002-7520-9576>
- Publons (Peer Review Verification): www.publons.com/a/1283441/

ACADEMIC BACKGROUND:

2018	UNIVERSITY OF MISSOURI DOCTOR OF PHILOSOPHY <ul style="list-style-type: none">○ Field of Study: Information Science and Learning Technologies	COLUMBIA, MO
2002	UNIVERSITY OF MISSOURI MASTER OF EDUCATION <ul style="list-style-type: none">○ Field of Study: Curriculum and Instruction (emphasis in Career and Technical Education)○ Maintained a 3.8 grade point average.	COLUMBIA, MO
1993	UNIVERSITY OF MISSOURI BACHELOR OF HEALTH SCIENCE <ul style="list-style-type: none">○ Field of Study: Radiologic Sciences (emphasis in Radiography, science track).○ Cum Laude.○ Maintained a 3.28 grade point average.	COLUMBIA, MO

EMPLOYMENT EXPERIENCE:

AUGUST 1, 2011 TO PRESENT	UNIVERSITY OF MISSOURI ASSOCIATE TEACHING PROFESSOR – RADIOGRAPHY <ul style="list-style-type: none">• Supervise 25+ students/year, scheduling clinical hours, resolving conflicts, and insuring compliance with ARRT competency requirements• Mentor students in the development of professionalism and life-long learning skills.• Act as liaison officer between program and hospitals in order to coordinate academic and clinical training.• Facilitate the process of obtaining and renewing affiliation agreements with medical facilities across the nation to provide access to clinical experiences for those wishing to obtain post-primary certifications.• Conduct, evaluate, and revise student-centered learning activities in Fundamentals of Radiography, Radiographic Physics, Imaging Modalities, Cardiopulmonary and Diagnostic Applications 1 (writing intensive course), Healthcare Administration and Leadership (writing intensive, capstone course), Advanced Medical Imaging Externship and 5 Clinical Education courses.• Supervise and manage criminal background checks, federal disqualification histories, drug	COLUMBIA, MO
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screenings, and required immunization records for radiography students and all students wishing to enroll in the Advanced Medical Imaging Externship.

- Assist with ongoing compliance requirements for JRCERT accreditation
- Lead the department's growth in research and scholarly activity through participating in School- and Campus-wide research initiatives, conducting interdisciplinary collaborative studies and mentoring others through the research process.

SCHOOL AND UNIVERSITY SERVICE

- Member, MU Library Committee, 2017- 2020
- Member, SHP Dean's Advisory Committee, 2016- present
- Member, SHP Mentoring Task Force, 2016 - present
- Member, MU Faculty Advisory Committee on Intellectual Property, 2011-present
- Member, MU Faculty Advisory Council on Research Cyberinfrastructure, 2012-2017
- Member, CDS Chair Search Committee, 2015-2016
- Member, SHP C,T&R Promotion Committee, 2011- 2015
- Member, CDS Committee on Review, 2007, 2011, 2015 & 2017
- Member, Graduate Education Committee, College of Education, 2013-2014
- Member, SHP Dean Selection Committee, 2013
- Member, SHP Student Appeals Committee, 2011
- Member, SHP Faculty Research Committee, 2006 - 2011.
 - Chair, 2006-7 & 2009-10
- Conducted community Service Presentations
 - Kansas City AHEC Scholars, 2017
 - Christian Fellowship School, 2017
 - Caleb Science Club, 2016
 - Health Professions Summit, 2016-present
 - Kauffman Scholars, 2013- present
 - American Heart Association CPR and First Aid Training, 2011-present

July 15, 2006
to August 1, 2011

University of Missouri

Columbia, MO

Clinical Assistant Professor - Radiography

- Developed, administered and evaluated 30 cr. hours of courses per academic year, all web-enhanced or completely online.
- Acted as liaison officer between program and hospital in order to coordinate academic and clinical training.
- Organized student clinical experiences: supervising 27 students/year; scheduling clinical hours, resolving conflicts, and insuring compliance with ARRT competency requirements.
- Compile clinical competencies, professional work trait evaluations and clinical time, ensuring compliance with ARRT competency requirements.
- Assisted in the completion of JRCERT self-study and site visit; maintain appropriate documentation on clinical education sites and clinical preceptors.

SCHOOL AND UNIVERSITY SERVICE

- Member, MU Libraries Committee, 2017 - present
- Member, MU Faculty Advisory Committee on Intellectual Property, 2011-present
- Member, SHP C,T&R Promotion Committee, 2011- 2016
- Member, CPD Committee on Review, 2007, 2017
- Chair (2006-7 & 2009-10), SHP Faculty Research Committee, providing internal grant review and professional development to the School of Health Professions, member 2006-2011.
- Community Service Presentations
 - Caleb Science Club, 2006, 2007, 2008, 2009 & 2010.
 - Summers at Mizzou, 2009.
 - Middle School Career Exploration Days, 2008.
 - School of Health Professions booth, Missouri State Fair, 2006 & 2007.
 - School of Health Professions booth, Employee Health Fair, 2007.
 - Columbia Career Center, Health Occupations Students, 2006 & 2007.

April 27, 2003
to June 30, 2006

State Fair Community College

Sedalia, MO

Program Director - Radiologic Technology

- Planned and instituted the radiologic technology program, including classroom and lab design, equipment procurement, and faculty and staff recruitment.
- Designed entire two-year curriculum, in accordance with JRCERT and ASRT guidelines.
- Obtained three-year initial JRCERT program accreditation (the longest accreditation period awarded to new programs).
- Trained and managed 3 faculty members, 1 support staff, and over 40 clinical preceptors in effective instruction, supervision and evaluation techniques.
- Supervised and managed criminal background checks, federal disqualification histories and drug screenings for all Allied Health programs.
- Supervised 36 students/year, scheduling course and clinical hours, and resolving conflicts.
- Developed, implemented and evaluated student-centered learning activities in Orientation to Radiologic Technology, Radiographic Procedures, Radiation Production, Patient Care, Radiographic Exposures and Quality Control, Essentials of Pharmacology, Radiologic Pharmacology, Sectional Anatomy, Imaging Equipment, and Preparing for Professionalism.
- Prepared periodic reports to monitor and evaluate progress of program.

INSTITUTIONAL SERVICE

- Advisement of pre-radiologic technology students on academic and vocational curricula
- Institutional Effectiveness AQIP (Academic Quality Improvement Program) Team, Co-Chair
- Campus-wide application for AQIP accreditation through North Central Association of Colleges and Schools, Co-Author
- Strategic Planning Committee for Educational Technology, member
- Strategic Planning Committee for Educational Services, member
- Successfully directed a 10 person team through the development of templates and timetables for the implementation, review and evaluation of the college-wide strategic plan.

June, 2002
to April, 2003

Harry S. Truman Veteran's Hospital

Columbia, MO

Ultrasonographer

- Performed examinations in diagnostic ultrasonography and radiography with rotating call.
- Supervised and managed inpatient, outpatient, and after-hours schedules.
- Oversaw students in the operation of imaging equipment, such as x-ray machine, fluoroscope and scanner.
- Evaluated accuracy and quality of images and provided technical assistance.
- Performed venipuncture, screened for contraindications, and administered contrast media under the supervision of a radiologist.
- Performed other clerical and support duties as necessary to insure smooth operation of the department.
- Worked extensively with digital imaging, PACS, and RIS.

July, 1999
to July, 2001

Nichols Career Center

Jefferson City, MO

Clinical Coordinator - Radiologic Technology

- Organized student clinical experiences, compiled clinical competencies, professional work trait evaluations and clinical time, insuring compliance with ARRT competency requirements.
- Scheduled and facilitated quarterly clinical instructor meetings.
- Developed student-centered curriculum for: Introduction to Radiologic Technology, Radiation Physics, Radiographic Procedures, Imaging Equipment, Cross Sectional Anatomy, and Registry Review.
- Assisted with the completion of a self-study for Joint Review Committee on Education in Radiologic Technology program accreditation.
- Liaison officer between program and hospital coordinating academic and clinical training.

July, 1993
to July, 1999

Harry S. Truman Veteran's Hospital
Multi-Modality Technologist

Columbia, MO

- Operated radiologic equipment, including ultrasound, computed tomography, and diagnostic radiography units, to produce images of body for diagnostic purposes, as directed by radiologist.
- Held direct responsibility for radiography students, including supervision of performed exams and rotation experiences, determination of clinical competency, and evaluation of cognitive, psychomotor and affective skills.

INSTITUTIONAL SERVICE

- Trainer, "Heart of the Matter" hospital-wide customer service training, 1999
- Member, Controlled Substance Inspection Committee, 1997 - 1999
- Member, the Imaging Service Quality Improvement Team, 1998
- Member, VIP Ambassador Team (a way finding and patient assistance team), 1997 – 1999

HONORS & AWARDS:

- 2018 MoSRT Technologist Scholarship, Missouri Society of Radiologic Technologists, 2018.
- Kristofer and Lori Hagglund Early Career Award, School of Health Professions, University of Missouri, 2017
- Life Member, Missouri Society of Radiologic Technologists, 2017
- Fellow, Wakonse Foundation for College Teaching, 2013
- Golden Key International Honour Society, 2011, Nominated for membership for academic achievement during doctoral studies.
- New Faculty Teaching Scholars Program, University of Missouri, 2008-2009
- Excellence in Education Award Nominee, Nominated for contributions to the enhancement of student learning, University of Missouri, 2008.
- Star Award for significant contributions to the successful completion of the institutional application for AQIP accreditation, State Fair Community College, Sedalia, MO, 2006.
- Service Commendation, Missouri Society of Radiologic Technologists, 2003.
- On-the-Spot Award for maintenance of high levels of service to patients and staff, contributions in preparation for the JCAHO survey, and commitment to insuring the comfort and confidence of patients, Harry S. Truman Veteran's Hospital, Columbia, MO, 1998.
- Star Award, in which patients and guests of the facility recognize employees for their acts toward improving the quality of care, Harry S. Truman Veteran's Hospital, Columbia, MO, 1998.
- Suggestion Award for the implementation of a patient satisfaction survey I designed, Harry S. Truman Veteran's Hospital, Columbia, MO, 1994.
- University of Missouri: Cum Laude, 1993.
- University of Missouri: Curator's Scholarship, 1989-1993.

PROFESSIONAL CERTIFICATIONS:

American Registry of Radiologic Technologists

- Computed Tomography - Registry #270309 October, 1995 to present
- Radiography - Registry #270309 July, 1993 to present

American Heart Association

- Basic Life Support Healthcare Provider 1991 to present
 - Issued through 04/2019
- BLS Instructor 2007 to present
 - Issued through 04/2019
- Advanced Cardiac Life Support Provider 2007 to 2013
 - Issued through 05/2013

State of Missouri

- Vocational Teacher's Certificate in Medical Radiologic Technology 1999 to 2006
 - Voc II - 5 year Renewable Certificate # 0242552

TEACHING STATEMENT AND OVERVIEW:

In my teaching, I embrace practices that are both pragmatic and constructivist in their philosophical orientation. My motivation in teaching is pragmatic in that I focus on preparing students to apply the knowledge from my classes in the care of patients in a healthcare setting. Every educational activity, reading assignment and laboratory practice session is carefully designed to help our Undergraduate students deliver the best possible care to the patients they serve. While the titles of some courses, such as "Radiographic Physics" or "Imaging Modalities," may call into question the direct applicability of the information to professional practice, I take time to make these connections explicit to the students and to help them develop their own understanding of the concepts presented. The instructional design should not only address professional content, but also provide students with experiences that will enhance their teamwork, problem-solving, and critical thinking skills. The content needs to be mastered at levels that enable the student to develop clinical action plans, evaluate the results and make corrections as necessary. Developing these types of higher order thinking skills improves the probability of students being able to transfer that knowledge from the classroom to professional life. I also embrace constructivist pedagogy in my teaching. This means that I continually help the students to connect information from one class to the information learned in another. I also engage them in activities that involve creating explanations of processes and discussing those explanations with their classmates. In this way, their understanding of concepts and processes becomes more robust, enabling them to better engage in interprofessional practice.

Teaching Accomplishments

In the past twenty years, my instructional effort has been focused on undergraduate professional radiography education, with spectacular results. My students have consistently performed well on the radiography credentialing exam, secured responsible professional positions and gone on to excel in graduate education. I am well-prepared to develop and deliver quality instruction, holding a Master's degree in Career and Technical Education and completing doctoral coursework in educational technology as well. Further, I approach the delivery of my course content academically, publishing eight teaching-related research articles in journals and indexed conference proceedings. I am a 2013 Fellow of the Wakonse Foundation for College Teaching, and have completed the University of Missouri's New Faculty Teaching Scholars program. In 2008, my instructional accomplishments were recognized with nomination for the Excellence in Education Award. In 2009, my online course, "Healthcare Organization and Leadership," was highly praised in a "QualityMatters" review, where it was scored a perfect 85/85 for effective online course design. In addition to delivering undergraduate radiography instruction, I have also delivered many continuing education sessions for professional radiographers, and supported the instructional growth of faculty at the School, University, System and national levels, delivering 10+ presentations on effective teaching strategies in a variety of venues.

PUBLICATIONS

- Allen, C. M.,** & Erdelez, S. (2019 – Under Review). Serendipity Support for Biomedical Research Recommender Systems. *Data and Information Management*.
- Chen, W., & **Allen, C.** (2018) Deeper learning in collaborative concept mapping: A mixed methods study of conflict resolution. *Computer-Based Learning Environments for Deeper Learning in Problem Solving Contexts. A Special Issue of Computers in Human Behavior*.
- Kabel, A., **Allen, C.** & Dimka, J. (2017). Whose Mammogram is this Anyway? Perspectives on Technology, Breast Health and Mammography. *Design for Health*.
- Chen, W., & **Allen, C.** (2017). Concept Mapping: Providing Assessment of, for, and as Learning. *Medical Science Educator*. <https://doi.org/10.1007/s40670-016-0365-1>
- Denham, G., **Allen, C.,** & Platt, J. (2016). International collaboration in medical radiation science. *Journal of Medical Radiation Sciences*, 63(2), 75–80. <https://doi.org/10.1002/jmrs.158>

- Cao, H., Li, Y., **Allen, C. M.**, Phinney, M. A., & Shyu, C. R. (2016). Visual Reasoning Indexing and Retrieval Using In-memory Computing. In *2016 IEEE Second International Conference on Multimedia Big Data (BigMM)* (pp. 17–24). <https://doi.org/10.1109/BigMM.2016.83>
- Allen, C. M.**, Erdelez, S., & Marinov, M. (2013). Looking for opportunistic discovery of information in recent biomedical research—a content analysis. *Proceedings of the ASIST Annual Meeting*, 50(1). <https://doi.org/10.1002/meet.14505001082>
- Allen, C. M.**, & Saporova, D. (2015). Needs analysis on the development of evidence-based practice in an undergraduate problem-based learning context. *Proceedings of the Association for Information Science and Technology*, 52(1), 1–4. <https://doi.org/10.1002/pr2.2015.1450520100130>
- Wang, X., Erdelez, S., **Allen, C.**, Anderson, B., Cao, H., & Shyu, C.-R. (2011). Medical image describing behavior: A comparison between an expert and novice (pp. 792–793). Presented at the *ACM International Conference Proceeding Series*. <https://doi.org/10.1145/1940761.1940907>
- Wang, X., Erdelez, S., **Allen, C.**, Anderson, B., Cao, H., & Shyu, C.-R. (2012). Role of domain knowledge in developing user-centered medical-image indexing. *Journal of the American Society for Information Science and Technology*, 63(2), 225–241. <https://doi.org/10.1002/asi.21686>
- Wang, X., Erdelez, S., Lu, Y., **Allen, C.**, Anderson, B., Cao, H., & Shyu, C.-R. (2011). Search tactics for medical image retrieval. *Proceedings of the ASIST Annual Meeting*, 48. <https://doi.org/10.1002/meet.2011.14504801346>

PROFESSIONAL CONFERENCE PRESENTATIONS

Published Conference Proceedings

- Li, Y., **Allen, C. M.**, & Shyu, C.-R. (2019). Quantifying and Understanding the Differences in Visual Activities with Contrast Subsequences. In *Proceedings of Eye Tracking Research & Applications Symposium (ETRA'19)*. New York, NY: ACM Press.
- Allen, C. M.**, & Erdelez, S. (2018). Distraction to Illumination: Mining Biomedical Publications for Serendipity in Research. In *81 st Annual Meeting of the Association for Information Science & Technology* (p. 990). Vancouver, Canada: John Wiley & Sons, Inc.
- Allen, C. M.** (2018). Serendipity in the Research Literature: A Phenomenology of Serendipity Reporting. In *Proceedings of the 2018 Conference on Human Information Interaction & Retrieval - CHIIR '18* (pp. 336–338). New Brunswick, NJ, USA: ACM Press. <https://doi.org/10.1145/3176349.3176358>
- Chen, W., **Allen, C. M.**, & Jonassen, D. (2017). Deeper Learning Through Conflict Resolution or Stubborn Resistance to Change? In *Fostering Deep Learning in Problem-Solving Contexts Through Effective Design of Learning Environments With Technology Support*. San Antonio, TX: American Educational Research Association.
- Cao, H., Li, Y., **Allen, C. M.**, Phinney, M. A., & Shyu, C. R. (2016). Visual Reasoning Indexing and Retrieval Using In-memory Computing. In *2016 IEEE Second International Conference on Multimedia Big Data (BigMM)* (pp. 17–24). <https://doi.org/10.1109/BigMM.2016.83>
- Chen, W., **Allen, C.**, & Jonassen, D. (2013). Does Collaborative Concept Mapping Enhance Group Members' Knowledge Convergence? Presented at the Global Chinese Conference on Computers in Education, Beijing.
- Allen, C.**, & Iyer, M. (2015). Development and Efficacy of an Online Problem Based Learning Course in Occupational Therapy and Radiography. In *Proceedings – 2015 AOTA/OTCAS Education Summit*. Denver, CO: The American Occupational Therapy Association, Inc.
- Allen, C.**, & Erdelez, S., Marinov, M. (2013). Looking for Opportunistic Discovery of Information in Recent Biomedical Research – A Content Analysis. In *Proceedings - ASIST 2013 Annual Conference*. Quebec, Canada: Association for Information Sciences and Technology. (34% acceptance rate)
- Chen, W., **Allen, C.**, & Jonassen, D. (2013). Does Collaborative Concept Mapping Enhance Group Members' Knowledge Convergence? In *Proceedings - GCCCE 2013*. Presented at the Global Chinese Conference on Computers in Education, Beijing: Global Chinese Conference on Computers in Education.

- Wang, X., Erdelez, S., **Allen, C.**, Anderson, B., Cao, H., & Shyu, C.-R. (2011). Medical image describing behavior: A comparison between an expert and novice. *ACM International Conference Proceeding Series, 6th Annual Conference on 2011 iConference: Inspiration, Integrity, and Intrepidity, iConference 2011* (pp. 792-793). Seattle, WA.
- Wang, X., Erdelez, S., **Allen, C.**, Anderson, B., Cao, H., Arthur, G., & Shyu, C. R. (2010, Dec.). The Impact of Domain knowledge on Medical Image Descriptions. Presented at The International Conference on the Image, Los Angeles, CA.
- Allen, C.** (2010, Aug.). Internship Management: Optimizing Evaluation of Professions. In *Conference Proceedings -- Campus Technology Events*. Presented at the Campus Technology 2010, Boston, MA: 1105 Media Inc.

Poster

- Allen, C.**, & Saprova, D. (2015, Nov). Needs Analysis on the Development of Evidence –Based Practice in an Undergraduate Problem-Based Learning Context. . In Proceedings - ASIST 2015 Annual Conference. St. Louis, MO: Association for Information Sciences and Technology. (58% acceptance rate)
- Allen, C.**, & Erdelez, S., Marinov, M. (2013, Oct.). Looking for Opportunistic Discovery of Information in Recent Biomedical Research – A Content Analysis. Presented at the Missouri Informatics Symposium 2013: Translational Informatics. Columbia, MO: MU Informatics Institute Graduate Student Association. (34% acceptance rate)
- Erdelez, S., Marinov, M., & **Allen, C.** (2012). Knowledge Discovery System for Research Hypothesis Generation from Serendipitous Findings: A Feasibility Study. Presented at the AMIA 2012 Annual Symposium. Chicago: American Medical Informatics Association. (34% acceptance rate)
- Briedwell, T., **Allen, C.**, Dannecker, E. (2012, Feb.) *Perceived Value of CAPTE's Topics of Scholarly Activity Among Health Professions' Faculty*. Presented at the APTA Combined Sections Meeting 2012. Chicago, IL.
- Anderson, B., **Allen, C.**, Cao, H., Harnsomburana, J., Wang, X., Shyu, C. R., Erdelez, S., et al. (2010, Nov.). *A Framework for Data Acquisition of Visual Knowledge Through Webcam-based Gaze Tracking*. Presented at the AMIA 2010 Annual Symposium, Washington DC: AMIA.
- Allen, C.**, & Wang, X. (2010, October 22). *Accidental Discovery of Information on Medical Images: A comparison of expert and novice response*. Poster presented at the International Workshop on Opportunistic Discovery of Information, Columbia, MO.
- Wang, X., **Allen, C.**, Cao, H., & Anderson, B. (2010, October 22). *Comparing Methods on Eliciting Episodes of Medical Image Information Encountering*. Presented at the International Workshop on Opportunistic Discovery of Information, Columbia, MO.
- Allen, C.** (2008, April.). *Research Training Needs Analysis*, Poster presented at the Missouri Society of Radiologic Technologists' Annual Conference, Lake Ozark, MO.

Conference Presentations

- Allen, C.** (2017, Feb. 2). Integrated Guided Inquiry. Presented at the Campus Writing Program Coffee Seminar Series, Columbia, MO.
- Lair, L. & **Allen, C.** (2016, May 18). Tell Me What You Learned Today? Presented at Celebration of Teaching, University of Missouri-Columbia, Columbia, MO.
- Allen, C.** (2016, April 7). Developing Leadership through Program Planning: Inspiring People to Get Stuff Done. Presented at the Missouri Society of Radiologic Technologists Annual Conference, Columbia, MO.
- Allen, C.** (2015, April 11). Perceptions of Breast Screening: The Mammographer's Viewpoint. Presented at the Missouri Society of Radiologic Technologists Annual Conference, Columbia, MO.
- Allen, C.** & Tew, P. (2012, Sept. 27). Radiologic Review for the Respiratory Care Practitioner. Presented at the Missouri Society for Respiratory Care District 3 Annual Conference, Columbia, MO.

- Allen, C.** (2012, April 4). Radiography Education & Practice: A South African Perspective. Presented at the Missouri Society of Radiologic Technologists 3rd District Spring Meeting, Columbia, MO.
- Allen, C.** (2010, April). Morbid Obesity: A growing problem. Presented at the Missouri Society of Radiologic Technologists 2010 Annual Conference, Lake Ozark, MO.
- Allen, C.** (2010, Jan.). Using Windows Movie Maker to enhance student learning. Presented at the SHP Faculty Development Workshop, Columbia, MO.
- Allen, C.** (2010, Jan.). Using wikis to promote student collaboration. Presented at the SHP Faculty Development Workshop, Columbia, MO.
- Allen, C.** (2008, Nov.). Computer Mediated WI. Presented at the CWP's Brown Bag Series, Columbia, MO: Campus Writing Program, University of Missouri.
- Allen, C.** (2007, March). Encouraging Scholarly Activity. Presented at the Workshop on Preparing Applications for the SHP Catalyst Awards , Columbia, MO.

EDITORIAL/ADVISORY BOARDS

- Reviewer, Journal of Medical Radiation Sciences, reviewed article on incivility among radiography educators, May, 2018.
- Reviewer, Computers in Human Behavior, reviewed article on Problem-Based Learning, September, 2017.
- Reviewer, Journal of Medical Radiation Sciences, reviewed article on radiographer reporting, July, 2017.
- Expert Reviewer, American Society of Radiologic Technologists, Feb. 2014 – present.
- Contracted item writer, radiologic technologists test preparation product, Dynamic Wordworks, Inc., April - May 2012.
- Contributor and Peer Reviewer, radiologic technologists test preparation product, Dynamic Wordworks, Inc., Fall 2011.
- Reviewer, Johnston, J., Fauber, T. (2012). *Essentials of radiographic physics and imaging*. (1st ed.). St. Louis: Mosby, Inc.
- Reviewer, *Essentials of Imaging Sciences*, Elsevier, 2008.
- Consultant/contributor, *Diagnostic Tests Made Incredibly Easy*, Lippincott Williams & Wilkins, 2007.
- Reviewer, *Radiography Flash Cards*, Thomson Delmar Learning, 2006.
- Reviewer, *Radiographic Positioning & Procedures A Comprehensive Approach*, Thomson Delmar Learning, 2005.

GRANTS AND FUNDED RESEARCH

Principal Investigator:

- **Campus Writing Program Award**
Amount & Grant Period: \$10,000, Funded; 2014 – 2016.
Agency: University of Missouri Campus Writing Program
- **Presenting findings for Integrating Guided Inquiry into Problem-Based Learning**
Amount & Grant Period: \$500, Funded; 2014 - 2015.
Agency: SHP Faculty Scholarship Facilitation Award, School of Health Professions, University of Missouri
- **Modeling and Assessing Radiographic Visual Perception Skills**
Amount & Grant Period: \$10,000, (not funded); 2013 – 2014.
Agency: American Society of Radiologic Technologists' Professional Research Grant
- **Modeling and Assessing Radiographic Visual Perception Skills**
Amount & Grant Period: \$14,969, 2013 - 2014. (not funded); *Overlap:* None

Agency: Interdisciplinary Research Award Program at the Association of Schools of Allied Health Professions

- **Clinical Management System**
Amount & Grant Period: \$2,500, 2008 - 2009.
Agency: University of Missouri Academic Transformations Award
- **Faculty Perceptions of Research Activity Training Needs**
Amount & Grant Period: \$1,333, 2006.
Agency: Scholarly Activity Catalyst Award, School of Health Professions, University of Missouri

Co- Principal Investigator:

- **Focus Wave Mode UWB Imaging**
Amount & Grant Period: \$100,000 Total; 2017 (not funded).
Agency: University of Missouri System - University Research Board
- **Ultrawideband Microwave Imaging for Early Detection of Breast Cancer Tumors**
Amount & Grant Period: \$98,000 Total, SHP Share \$48,000; 2014-2015.
Agency: University of Missouri System - Interdisciplinary Intercampus Research Program
- **Visual Knowledge Understanding of Diagnostic Images for Innovative Search, Training, and Error Prevention in Multiple Medical Specialties**
Amount & Grant Period: \$ 1,373,366 Total, SHP Share- \$31.039; 2012-2016 (Ranked, but not funded);
Agency: National Institutes of Health, R01 – Currently preparing reapplication
- **Creating a Model eLearning Hub to Deliver Allied Health Care Curriculum Locally, Nationally, and Internationally**
Amount & Grant Period: \$49,998, Not Funded; 2011 – 2012.
Agency: University of Missouri – Research Board
- **Evaluating the Extant Evidence of Problem-Based Education**
Amount & Grant Period: \$49,998, Not funded; 2011 – 2012.
Agency: University of Missouri –Columbia
- **University of Missouri – South Africa Education Program Partnership**
Amount & Grant Period: \$10,000; 2011
Agency: University of Missouri South Africa Exchange Program
- **Creating an annotated web-accessible learning repository for the School of Health Professions**
Amount & Grant Period: \$25,000 and \$20,000 (total \$45,000); 2010-2011
Agency: University of Missouri-System & Provost, University of Missouri-Columbia

PROFESSIONAL SERVICE

- Missouri Society of Radiologic Technologists** 1999 to present
- President, 2018-2019
 - President-elect, 2017-2018
 - Conference Coordinator 2003 -2004, & 2015-2018,
 - Conference Co-Coordinator 2002, 2014-2015, 2019
 - Vice President and Student Scholarship Chair 2013-2014
 - Third District representative to the Board of Directors, 1999 - 2002
 - Organized and presented Third District continuing education activities.
 - Served as Student Activities and Ways and Means Chairs, 2004-2006.
 - RT in JC Co-Coordinator, 2003.
 - Public Relations Chair 2004

- Legislative Activities and 75th Anniversary committees, 2005-2006.
- Presented educational lectures in 2002, 2003, 2004, 2005, 2010, 2014, 2015 and 2016.
- American Society of Radiologic Technologists** 1999 to present
 - Alternate Delegate to the 2018 ASRT Educational Symposium & Annual Governance & House of Delegates Meeting
 - Participated in numerous surveys and research regarding education in radiologic technology.
 - Completed continuing education activities.
- Association for Information Science and Technology (ASIS&T)** 2012 to present
 - Attended International Conference in 2013 and 2015
 - Presented a conference paper "*Looking for Opportunistic Discovery of Information in Recent Biomedical Research – A Content Analysis*"
 - Presented a poster "*Needs Analysis on the Development of Evidence –Based Practice in an Undergraduate Problem-Based Learning Context*"
- International Society of Radiographers and Radiologic Technologists** 2013 to present
 - Associate Member supporting educational activities for radiographers in countries across the World.
 - Met with ISRRT Regional Coordinator for Education – Africa, Jenny Motto in Johannesburg, South Africa
- American Educational Research Association (AERA)** 2014 to present
 - Attended 2017 Annual Conference
 - Presented a conference paper "*Deeper Learning Through Conflict Resolution or Stubborn Resistance to Change?*"
 - Member of Special Interest Groups:
 - Brain, Neurosciences, and Education
 - Career and Technical Education
 - Workplace Learning
 - Writing and Literacies
- Society of Radiographers - UK** 2015 to present
 - Member
- European Society of Radiology** 2018 to present
 - Corresponding Member of the Radiography Section of this organization that is dedicated to promoting and coordinating the scientific, philanthropic, intellectual and professional activities of Radiology.
- American Medical Informatics Association (AMIA)** 2012 to 2015
 - Attended 2012 Conference
 - Presented a poster "*Knowledge Discovery System for Research Hypothesis Generation from Serendipitous Findings: A Feasibility Study*"
- Missouri Association of Career and Technical Educators** 1999 to 2006
 - Member of sub-group Missouri Society of Allied Health Occupations Educators.
 - Collaborated with other educators at state-wide meetings and other trainings.
 - Presented educational lecture on Critical Thinking.

PROFESSIONAL DEVELOPMENT ACTIVITIES

- Wakonse Conference on College Teaching, 5/23-28/2013.
- SHP Research Retreat. 03/15 & 16/2012. Participated in the development of a research agenda for the School of Health Professions.
- Pizza and Projects – Mizzou Advantage event. 03/01/2012. Assisted in the presentation of MU's interdisciplinary approach to becoming a leader in the opportunistic discovery of information.
- International Workshop on Opportunistic Discovery of Information. 10/21-22/2010. An international workshop on how people encounter and use information. Attended and presented two posters.

- Campus Technology 2010, 7/19-22/2010. National conference on learning technology. Attended and presented a conference session on electronic management of student clinical records.
- Celebration of Teaching Excellence, 5/18-19/2010, Campus-wide workshop on teaching and learning, University of Missouri.
- Focus on Teaching and Technology, 10/15-16/2009, Regional Conference and pre-conference workshops, University of Missouri-St. Louis.
- IE Lab Usability Training, 07/23-24/2009, Information Experience Laboratory, University of Missouri.
- 77th Annual Conference, 04/18—20/2009, Missouri Society of Radiologic Technologists' Annual Conference, Lake Ozark, MO.
- 76th Annual Conference, 04/16—18/2008, Missouri Society of Radiologic Technologists' Annual Conference, Lake Ozark, MO.
- Accreditation Seminar and Outcomes Assessment Workshop, 08/16-18/2007, Joint Review Committee on Education in Radiologic Technology Seminar, Chicago, IL
- Campus Writing Program Faculty Workshop, 08/14-15/2007, University of Missouri
- 12th Annual Midwest Regional Nursing Educators Conference, 11/17/2006, Nursing Outreach and Distance Education, University of Missouri
- 75th Annual Conference, 04/18-21/2006, Missouri Society of Radiologic Technologists' Annual Conference, Lake Ozark, MO.
- Educational Services Tactical Planning, 10/04, State Fair Community College, Sedalia, MO
- Teaching Critical Thinking Skills Across the Curriculum, 12/1/04 State Fair Community College, Sedalia, MO