

Schwanda K. Flowers, Pharm.D.

Interim Dean
Associate Dean for Administrative and Academic Affairs
Associate Professor, Pharmacy Practice

University of Arkansas for Medical Sciences
College of Pharmacy, Department of Pharmacy Practice

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Pharmacy License: Arkansas #8901
 preceptor license since 2001

EDUCATION

| | |
|-----------|--|
| 2008-2009 | Fellowship American Association of Colleges of Pharmacy (AACP) Academic Leadership Fellows Program |
| 1995-1999 | Doctor of Pharmacy University of Arkansas for Medical Sciences (UAMS) College of Pharmacy Little Rock, Arkansas |
| 1993-1995 | Pre-Pharmacy, Major University of Arkansas at Little Rock Little Rock, Arkansas |

FACULTY APPOINTMENTS

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|--------------|--|
| 2019-present | Interim Dean Department of Pharmacy Practice UAMS College of Pharmacy Little Rock, Arkansas |
| 2018-present | Associate Dean for Administrative and Academic Affairs Department of Pharmacy Practice UAMS College of Pharmacy Little Rock, Arkansas |

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| 2012-2018 | Associate Dean for Student Affairs and Faculty Development Department of Pharmacy Practice UAMS College of Pharmacy Little Rock, Arkansas |
| 2012-Present | Associate Professor Department of Pharmacy Practice UAMS College of Pharmacy Little Rock, Arkansas |
| 2008-2016 | Community Pharmacy Practice Residency Director Department of Pharmacy Practice UAMS College of Pharmacy Little Rock, Arkansas |
| 2007-2012 | Assistant Dean for Experiential Education Department of Pharmacy Practice UAMS College of Pharmacy Little Rock, Arkansas |
| 2005-2012 | Assistant Professor, Department of Pharmacy Practice Department of Pharmacy Practice UAMS College of Pharmacy Little Rock, Arkansas |

CERTIFICATES & SPECIALTY TRAINING

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|--------------|---|
| 2010-Present | Accreditation Council for Pharmacy Education Site Team Evaluator |
| 1999-Present | Immunization Certification Arkansas State Board of Pharmacy |
| 1999-Present | BLS for Healthcare Providers American Heart Association |
| 2006-2007 | Self-Care Institute Participant APhA/McNeil |

EDUCATIONAL ACTIVITIES

Professional Program Instruction – UAMS College of Pharmacy

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|-----------|---|
| 2016-2018 | Co-Coordinator and Mentor, PhPr7364 Special Problems in Leadership Fall 2016 (30 hours instruction) |
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- 2008-2019 **Coordinator/Co-coordinator, Lecturer, PhPr7157 Entrepreneurship**
Fall 2008, 2009, 2010, 2011. Spring 2012, 2013, 2014, 2015 (22 hours lecture/instruction). Reframing Leadership; Entrepreneurial Spirit; Now Discover Your Strengths; How to Write a Successful Business Plan; Executive Summary; Market Principles; Location Analysis; Store Design; Developing Collaborative Relationships; Human resource Management; Financial Analysis
- 2012-2018 **Lecturer, PhPr 5734, Pharmacy Management**
Spring (2 hours). Cost of Dispensing
- 2009-2018 **Coordinator and Mentor, Special Problems in Business Plan Development**
Spring-Summer (30 hours instruction)
- 2007-2017 **Lecturer and Small Group Facilitator, PhPr 3423 Career Orientation and Communication**
Fall 2007, 2008, 2009 (4 hours lecture and 1 lab session CCSE)
Fall 2010, 2017 (3 hours lecture and 1 lab session in CCSE)
- 2010-2011 **Co-Coordinator, Lecturer, PhPr5634 Patient Assessment and Application and Laboratory**
Spring 2010, 2011 (2 hours lecture); Spring 2010, 2011 (27 lab contact hours). Patient Interviewing; Review Patient Counseling Skills; Lab: Vital signs, Peripheral Vascular System; Patient Interview, BP and Counseling, Immunization Technique; Cardiovascular System; Diabetic Foot and Glucometers; Putting it all Together: The Cardiovascular Patient; Putting it all Together: The Asthma Patient.
- 2009-2011 **Recitation Co-Coordinator, PhPr5622 Advanced Non-Prescription Medications Elective**
Fall 2009, 2010, 2011 (10 hours recitation)
- 2009-2011 **Lecturer, PhPr 5734, Pharmacy Management**
Spring 2009 (6 hours); Spring 2010, 2011 (3 hours). Cost of Dispensing; SWOT Analysis; Marketing; Leadership; Entrepreneurship; Cash Flow; Inventory Management.
- 2008-2011 **Lecturer and Lab Instructor, PhPr4454 Dispensing**
Fall 2008, 2009, 2010 (2 hours lecture, 6 hours lab); 2011 (1 hour lecture, 3 hours lab). Conflict Management; Patient Counseling; Communicating with Special Populations.
- 2008-2009 **Co-Coordinator, PhPr5634 Pharmacy Practice III Physical Assessment**
Spring 2006, 2007, 2008, 2009 (6 hours) Medication History; History of Present Illness; Immunization Certification

- 2006-2009 **Lecturer (lab), PhPr5634 Pharmacy Practice III Physical Assessment**
Spring 2006, 2007, 2008, 2009 (6 hours) Medication History; History of Present Illness; Immunization Certification
- 2006-2008 **Lecturer, PhPr5622 Advanced Non-Prescription Medications Elective**
Fall 2006, 2007, 2008 (2 hours lecture) SOAP Note Review, Cold/Cough, Acne, Constipation, Headache.
- 2006-2008 **Lecturer, PhPr4692 Non-Prescription Medications**
Spring 2006, 2007, 2008 (5 hours lecture) Smoking Cessation, Internal Analgesics, Oral Decongestants
- 2006-2008 **Preceptor, PhPr6663NT NTPD Community Clinical Clerkship**
Two students (3 hour course 100% instruction)
- 2006-2008 **Lecturer, PhPr5733 Community Pharmacy Management Selective Course**
Spring 2006, 2007, 2008 (1 hour lecture). Entrepreneurship, Business Plan
- 2005-2008 **Course Coordinator, Lecturer, PhPr5654 Pharmacy Practice II Communication/Law**
Fall 2005 (2 hours lecture) Fall 2006 (10 hours lecture) Fall 2007 (6 hours lecture) Fall 2008 (7.5 hours lecture). Information gathering; Patient Interviewing; Information Giving; Patient Counseling; conflict Management; Self-Regulation in conflict; Quality Concerns.
- 2005-2007 **Course Co-Coordinator, Preceptor, PhPr6664 Advanced Community Pharmacy Practice Experience (120 students per year)**

Postgraduate Instruction – UAMS College of Pharmacy

- 2008-2016 **Director, Community Pharmacy Residency Program**
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|------------|--|-------------|
| Residents: | Prince Chijioke., Pharm.D. WalMart Pharmacy Niki Scott, Pharm.D. Harps Pharmacy | (2015-2016) |
| | Amanda Valentine, Pharm.D. WalMart Pharmacy | (2014-2015) |
| | Kevin Barton, Pharm.D. WalMart Pharmacy Sarah Butler, Pharm.D. Kroger Pharmacy | (2013-2014) |

Jessica Cowart, Pharm.D.
Harps Pharmacy

Summer Rodgers, Pharm.D. (2011-2012)
USA Drug

Rachel Stafford, Pharm.D. (2010-2011)
Kroger Pharmacy

Bernice Amoakohene, Pharm.D. (2008-2009)
Freiderica Pharmacy
Eric Crumbaugh, Pharm.D.
Kroger Pharmacy
Dale Rutledge, Pharm. D.
AllCare Pharmacy

Academic Advisement – UAMS College of Pharmacy

- 2018 **Research Mentor**
College of Pharmacy, Pharmacy Practice Student Research
Fellowship. Student recipient: Brent Curry

“Web-based counseling and device technique counseling”
- 2017 **Research Mentor**
College of Pharmacy, Pharmacy Practice Student Research
Fellowship. Student recipients: Ahmed Salem & Brent Curry

“GPA factor and other factors to identify at risk students on
admission”
- 2016 **Research Mentor**
College of Pharmacy, Pharmacy Practice Student Research
Fellowship. Student recipients: Ahmed Salem & David Sigars

“Multiple Mini Interview Performance Correlation with Advanced
Pharmacy Practice Experience Performance, Summative Exam
Scores, and Didactic Pharmacy School GPA”
- 2015 **Research Mentor**
College of Pharmacy, Pharmacy Practice Student Research
Fellowship. Student recipient: Kelsey Willis

“*Evaluation of Admissions Criteria to Predict Success in the
Pharm.D. Curriculum*”
- 2012 **Faculty Mentor**
American Association of Colleges of Pharmacy (AACP)
Student Community Engaged Service Award: Corey Hayes

“*Partnership with the Consulate of Mexico in Little Rock*”

- 2012 **Research Mentor**
College of Pharmacy, Pharmacy Practice Student Research
Fellowship. Student recipient: Claire Vines

*“Effectiveness of Pharmacist-Provided Medication Therapy
Management Services in Central Arkansas”*
- 2011 **Research Mentor**
College of Pharmacy, Pharmacy Practice Student Research
Fellowship. Student recipient: Sarah Butler

*“Introductory pharmacy practice experience (IPPE) preceptors’
perception of the Likert based grading scale in objectively
evaluating students.”*
- 2007 **Research Mentor**
Paul Ambrose Scholar. Student recipient: Eric Crumbaugh

“Influenza and Pneumonia Immunization Clinic in Arkansas”
- 2007-2015 **Faculty Preceptor**
P3 Longitudinal Introductory Pharmacy Practice Experience
(IPPE)
- 2006-2017 **Faculty Mentor**
College of Pharmacy Student Mentoring Program

Miscellaneous Student Instruction – UAMS College of Pharmacy

- 2007-2010 **Lecturer, NAPLEX Review, Top 200 Drugs**

TEACHING AWARDS & HONORS

- 2008 Inductee, Phi Lambda Sigma Pharmacy Leadership Society
- 2008 Inductee, Rho Chi Pharmacy Honor Society
- 2007 UAMS Teaching Scholars Health Professions Educational
Research Poster, 2nd Place - Evaluation of Internet-based
Computer-aided-learning for Augmented Training within Fourth
Year Community Clinical Clerkships, Ross E. Vanderbush,
PharmD; **Schwanda K. Flowers, PharmD**; Jan K. Hastings,
PharmD; Donna West, PhD
- 2012 National Community Pharmacist Association
Winner of the National Good Neighbor Pharmacy NCPA Pruitt-
Schutte Student Business Plan Competition
Advisor
NCPA National Meeting San Diego, CA

- 2013 National Community Pharmacist Association
3rd Place National Good Neighbor Pharmacy NCPA Pruitt-Schutte
Student Business Plan Competition
Advisor
NCPA National Meeting Orlando, FL
- 2014 National Community Pharmacist Association
2nd Place National Good Neighbor Pharmacy NCPA Pruitt-Schutte
Student Business Plan Competition
Co-Advisor
NCPA National Meeting Austin, TX
- 2015 National Community Pharmacist Association
Winner of the National Good Neighbor Pharmacy NCPA Pruitt-
Schutte Student Business Plan Competition
Co-Advisor
NCPA National Meeting National Harbor, Maryland
- 2016 Phi Delta Chi Pharmacy Fraternity National Distinguished Alumni
- 2016 National Community Pharmacist Association
Top 10 National Good Neighbor Pharmacy NCPA Pruitt-Schutte
Student Business Plan Competition
Co-Advisor
AACP Annual Meeting Anaheim, CA
- 2017 National Community Pharmacist Association
Winner of the National Good Neighbor Pharmacy NCPA Pruitt-
Schutte Student Business Plan Competition
Co-Advisor
NCPA National Meeting Orlando, Florida
- 2018 3rd Place Poster Award- Salem A, **Flowers S**, Heldenbrand S,
Lakkad M. Development and Implementation of Enhanced
Evaluation Rubrics in the Multiple Mini-Interview Process.
University of Arkansas for Medical Sciences Annual Student
Research Day, Little Rock, Arkansas
- 2018 National Community Pharmacist Association
Top 10 of the National Pruitt-Schutte Student Business Plan
Competition
Co-Advisor
AACP Annual Meeting Boston, Massachusetts

PUBLICATIONS & SCHOLARSHIP

Peer-Review Publications

Google Scholar link:

<https://scholar.google.com/citations?user=dilRZWEAAAJ&hl=en&oi=ao>

Choi, A. **Flowers, S.**, et al. What Students Say: Academic Difficulty and Tinto's Theory of Student Departure. **American Journal of Pharmaceutical Education**, submitted September 2018.

Choi, A. **Flowers, S.**, Heldenbrand SD. Becoming More Holistic: A Literature Review of Nonacademic Factors in the Admissions Process of Colleges and Schools of Pharmacy and Other Health Professions. **Currents in Pharmacy Teaching and Learning**, 2018.

Boyle, C. Gonyeau, M. **Flowers, S.** et al. Adapting Leadership Styles to Reflect Generational Differences in the Academy. **American Journal of Pharmaceutical Education**, February 2018.

Heldenbrand, S. Dayer, L. **Flowers, S.** Advanced Pharmacy Practice Experience Evaluation Scores are Positively Associated with Multiple-Mini Interview Score, Pre-pharmacy GPA and Pharmacy GPA **American Journal of Pharmaceutical Education**, November 2017.

Heldenbrand, S. D., **Flowers, S. K.**, Bordelon, B. J., Gubbins, P. O., O'Brien, C., Stowe, C. D., & Martin, B. C. (2016). Multiple Mini-Interview Performance Predicts Academic Difficulty in the PharmD Curriculum. **American Journal of Pharmaceutical Education**, April 2016, 80(2), 27.

O'Brien, C. E., **Flowers, S. K.**, & Stowe, C. D. Desirable Skills in New Pharmacists: A Comparison of Opinions From Practitioners and Senior Student Pharmacists. **Journal of Pharmacy Practice**. 2015

Dayer L, Warmack S, **Flowers S.** Variations of Campus Assignment Policies at Colleges of Pharmacy with Distant Campuses, Annual Meeting of the American Association of Colleges of Pharmacy, Grapevine, TX, Volume: **American Journal of Pharmaceutical Education** 2014; 78 (5): Article 111

Payakachat, N., Gubbins, P. O., Ragland, D., **Flowers, S. K.**, & Stowe, C. D. (2014). Factors Associated With Health-Related Quality of Life of Student Pharmacists. **American Journal of Pharmaceutical Education**, 78(1), 7.

Payakachat N, Norman SE, Gubbins PO, **Flowers SK**, Stowe CD, Dehart RM, Pace A, Ragland D, Hastings JK. Academic help-seeking behavior among pharmacy students: A mixed method approach, **American Journal of Pharmaceutical Education**. 2014; 78(1): article 7

Stowe, C. D., Castleberry, A. N., O'Brien, C. E., **Flowers, S. K.**, Warmack, T. S., & Gardner, S. F. (2014). Development and implementation of the multiple mini-interview in pharmacy admissions. **Currents in Pharmacy Teaching and Learning**, 6(6), 849-855.

Payakachat, N., Gubbins, P. O., Ragland, D., Ashby, S. E., **Flowers, S. K.**, Stowe, C. D., Hastings, J. K. (2013). Academic Help-Seeking Behavior Among Student Pharmacists. **American Journal of Pharmaceutical Education**, 77(1), 7.

Chisholm-Burns, M. A., Spivey, C. A., Billheimer, D., Schlesselman, L. S., **Flowers, S. K.**, Hammer, D., . . . Vaillancourt, A. M. (2012). Multi-Institutional Study of Women and Underrepresented Minority Faculty Members in Academic Pharmacy. **American Journal of Pharmaceutical Education**, 76(1), 7.

Pace A, **Flowers S.** The Impact of a Political Advocacy Course on Student Pharmacists' Level of Advocacy, **Currents in Pharmacy Teaching and Learning**, January 2012.

Coffman, R. E., Bratberg, J. P., **Flowers, S. K.**, Murphy, N. L., Nemire, R. E., & Lang, W. G. (2011). Report of the 2010-2011 Standing Committee on Advocacy: Leveraging Faculty Engagement to Improve Public Policy. **American Journal of Pharmaceutical Education**, 75(10).

Chisholm-Burns M, Spivey C, Billheimer D, Schlesselman L, **Flowers S**, et al, MultiInstitutional Study of Women and Underrepresented Minority Faculty in Academic Pharmacy: 20 Years of Successes, Challenges, and Opportunities, accepted by **American Journal of Pharmaceutical Education**, August 2011

Soltis D, **Flowers S**, Using Patient Care Services to Expand Experiential Opportunities, accepted by **Journal of Pharmacy Practice**, December 2010: 23(6) 575-578

Hastings J, **Flowers S**, Pace A, Spadaro D, Experience with an Objective Standardized Clinical Exam (OSCE) in an Advanced Non-Prescription Medication Course, **American Journal of Pharmaceutical Education**, August 2010: 47(6) Article 98

Flowers S, Vanderbush R, Hastings J. Effectiveness of Web-based Learning Vignettes to Extend Student Learning in Advanced Community Practice Clerkships, **American Journal of Pharmaceutical Education**, April 2010: 74(3) Article 39

Eiland L, **Flowers S**, et al, A Comparative Study of Student and Faculty Perspectives Regarding Career Opportunities in Pharmacy Academia, **Currents in Pharmacy Teaching and Learning**, February 2010, 2 (2010) 39-51.

Pace A, **Flowers S**, Hastings J. Arkansas Community Pharmacists' Opinions on Providing Immunizations, **Journal of Pharmacy Practice** 2010 23(5):496-501.

Flowers S, "OTC Product: Cleanoz MB002 Nasal Aspirator Kit for babies", **Pharmacy Today**, May 2009: 15(5):19

Hastings, J. K., **Flowers, S. K.**, & Spadaro, D. C. Integrating an Elective Self-Care Experience With a Required Advanced Pharmacy Practice Community Experience. **American Journal of Pharmaceutical Education**, 2006; 70(6), 144.

Peer-Reviewed Book Chapter

Flowers, S. K., & Pace, A. (2011). Medication Therapy Management. In PSAP, pharmacotherapy self-assessment program. Lenexa, KS: **American College of Clinical Pharmacy (ACCP)**.

General Publications

Griffin S. **Flowers S**, Arkansas Graduating Salary Survey, Arkansas Pharmacist Association Annual Publication. Summer 2018.

Flowers S, UAMS Graduating Salary Survey, Arkansas Pharmacist Association Annual Publication. Summer 2017.

Flowers S, Arkansas Graduating Salary Survey, Arkansas Pharmacist Association Annual Publication. Summer 2016.

Flowers S, Arkansas Graduating Salary Survey, Arkansas Pharmacist Association Annual Publication. Summer 2015.

Flowers S, Sullivan M. Incorporation of Self-Care into introductory and advanced Pharmacy Practice Experiences, Self-Care Therapeutics/Nonprescription Medicines Special Interest Group Newsletter, American Association of colleges of Pharmacy. Issue 1, March 2011.

Flowers S. Incorporating Nonprescription Products into an Objective Structures Clinical Examination (OSCE), Self-Care Therapeutics/Nonprescription Medicines Special Interest Group Newsletter, American Association of colleges of Pharmacy. Issue 1, March 2011.

Newsletter based on roundtable discussion, Safdi M, **Flowers S**, Rao G, Wright W. "Caring for the Patient with Frequent Heartburn: A Focus on the proton Pump Inhibitors." 2009

Publications – In Preparation

Flowers S, Pace A, Neill K, Hastings J. Comparison of Preferred Incentive, Motivation, And Satisfaction of Community and Institutional APPE Preceptors.
Target Journal: **Journal of Pharmacy Practice**

Pace A, **Flowers S**, Stowe C. Comparison of students' performance on a summative exam based on enrollment in an advanced nonprescription medicine course.
Target Journal: **American Journal of Pharmaceutical Education**

Neil K, **Flowers S**. Documentation of P3 Longitudinal Introductory Pharmacy Practice Experience (IPPE) Consisting of Student-Identified Activities in PxDx.
Target Journal: **American Journal of Pharmaceutical Education**

Service on Editorial Board – Professional Journals

2009-Present Journal of Pharmacy Practice

Service as Referee – Professional Journals

2009-Present Journal of Pharmacy Practice

2010-Present American Journal of Pharmaceutical Education

INVITED PRESENTATIONS

Innovation and Business Planning. University of Rhode Island College of Pharmacy, February 2019.

Leadership and Entrepreneurship: My Journey to Academia. University of Rhode Island College of Pharmacy, March 2018.

Clinical Experiences in the PharmD Curriculum and the Importance of the Interprofessional Experience. Kaohsiung Medical University, Kaohsiung, Taiwan, October 2017.

Holistic Admissions: Factors to predict academic difficulty, American Association of Colleges of Pharmacy Annual Meeting Admissions Workshop, Nashville, TN, July 2017

Admissions Workshop: Retrospective Analysis of Diverse Attributes in Student Stories. American Association of Colleges of Pharmacy Annual Meeting, Gaylord Opryland Resort & Convention Center, Nashville, Tennessee, July 15, 2017

A Symposium on the Implementation of Multiple Mini Interviews in the PharmD Admissions Process. University of Louisiana at Monroe School of Pharmacy Admissions Committee Retreat, Shreveport, Louisiana, May 8, 2017.

UAMS College of Pharmacy Preceptor Development Conference, Winthrop Rockefeller Institute, Morrilton, AR, April 2017

Assessment of Admissions, American Association of Colleges of Pharmacy Admissions Institute, Herndon, VA, January 2017

UAMS College of Pharmacy Preceptor Development Conference, Little Rock, AR, April 2016

Holistic Admissions: We're In This Together, American Association of Colleges of Pharmacy Annual Meeting Admissions Workshop, National Harbor, MD, July 2015

MMI and the Admissions Process, American Association of Colleges of Pharmacy Annual Meeting Admissions Workshop, Grapevine, TX, July 2014

Importance of Clinical Experiences in the Training of Pharmacists, Congress of Biochemistry Bi-Annual Convention, Loja, Ecuador, January 2010

Preceptor's Role in Professional Socialization, Preceptor Training CE, University of California at San Diego, San Diego, CA, June 2009

Using an Advanced Nonprescription Medication Course recitation to train 3rd year students in self-care intervention documentation, Nonprescription Medication Academy Annual Meeting, Cincinnati, OH, October 2007

Preceptor Training Update, Arkansas Association of Health-Systems Pharmacists, Little Rock, AR, October 2007

Arkansas Community Pharmacy Cost of Dispensing, Arkansas Pharmacists Association Annual Meeting, Rogers, AR, June 2007

Utilizing Service Based Learning to Teach Self-Care Topics, APhA Self-Care Institute, Philadelphia, PA, June 2007

Pharmacy Preceptor Training Course: Demonstration of New Technology, UAMS Continuing Education program, Little Rock, AR, March 2007

Pharmacy Preceptor Training Course: Workshops, UAMS Continuing Education program, Little Rock, AR, March 2007

Utilizing Technology to Teach Administration, Non-Prescription Medication Academy Annual Meeting, Cincinnati, OH, October 2006

Pharmacy Preceptor Training Program, UAMS Continuing Education program, Little Rock, AR, October 2006

Practice Tips for Effective Precepting Workshop, UAMS Continuing Education program, Little Rock, AR, October 2006

Advancing self-care education through a required clerkship in nonprescription medications, APhA/McNeil Self-Care Institute, Educational Best Practices presented by Jan Hastings, Roundtable Discussion, Baltimore, MD, June 2006

GRANT SUBMISSIONS

National Community Pharmacist Association (NCPA) Foundation- POLA Leadership/Ownership Academy, **\$600,000** goal
January 2019 - **\$423,000** Funded

Arkansas Department of Health Medication Therapy Management (MTM) Project: Focus on Cardiovascular Disease

Objectives: Demonstrate the benefit of pharmacist-provided MTM, adherence coaching, and cardiovascular disease management for employees in Pulaski County. Arkansas Department of Health, **\$192,146**

March 2012 – Funded

National Association of Chain Drug Stores Community Pharmacy Residency Expansion Project with Walmart, **\$50,000**

May 2012 – Funded

National Association of Chain Drug Stores Community Pharmacy Residency Expansion Project with Walgreens Inc., **\$50,000**

May 2012 – Not Funded

Student Leadership Fund Proposal for Target, **\$2,500**

December 2011 – Funded

Student Leadership Fund Proposal for Wal-Mart, **\$6,200**

October 2011 – Funded

Pharmacist administered vaccines to central Arkansas homeless, Blue and You Foundation, **\$49,420.69**

July 2011 – Not Funded

AACP Student Engaged Community Service Award, Consulate of Mexico in Little Rock, **\$16,000**

2011 – Funded

Student Leadership Fund Proposal for Wal-Mart, **\$15,000**

October 2010- Not Funded

Student Leadership Fund Proposal for Wal-Mart, **\$15,000**

October 2009 – Funded

Student Leadership Fund Proposal for Wal-Mart, **\$15,000**

October 2008 – Funded

Concept Paper for Baxter International Health Restoration Fund, The Effectiveness of Vignettes to Train Community-Based Pharmacists and Students to Counsel Hearing Impaired Patients about Their Medications, **\$171,930**

September 2006- Not Funded

POSTERS

Salem A, **Flowers S**, PharmD, Heldenbrand S, PharmD, Choi A, EdD, Lakkad M, MS. Development and Implementation of Enhanced Evaluation Rubrics in the Multiple Mini-Interview Process. American Association of Colleges of Pharmacy Annual Meeting, Boston Massachusetts, July 23, 2018. **American Journal of Pharmacy Education**, vol. 82 issue 5 2018.

Salem A, Curry B, **Flowers S**, PharmD, Choi A, EdD Development of a Multi-Variable Admissions Factor to identify Students At Risk for Academic Difficulty. American Association of Colleges of Pharmacy Annual Meeting, Boston Massachusetts **American Journal of Pharmacy Education**, vol. 82 issue 5 2018.

Salem A, **Flowers S**, Heldenbrand S, Lakkad M. Development and Implementation of Enhanced Evaluation Rubrics in the Multiple Mini-Interview Process. University of Arkansas for Medical Sciences Annual Student Research Day, Little Rock, Arkansas, March 6, 2018 – **Poster earned 3rd place**

Salem A, Curry B, **Flowers S**, PharmD, Choi A, EdD. Development of a Multi-Variable Admissions Factor for the Identification of Academic Difficulty Students in the Doctor of Pharmacy Curriculum. University of Arkansas for Medical Sciences Annual Student Research Day, Little Rock, Arkansas, March 6, 2018

Shilling RR, Housley C, Heldenbrand SD, Payakachat N, Castleberry AN, **Flowers S**, Hammond DA. Evaluating the impact of APPE rotations on pharmacy student attitudes and perceptions toward interprofessional health care. (Poster S4) Arkansas Association of Health-system Pharmacists Fall Seminar, Hot Springs, AR. September 29, 2016.

Heldenbrand S, **Flowers S**, Neill K, Warmack S, Franks A, Olsen K.M., Improving the Multiple Mini-Interview Process for a More Holistic Applicant Review, Annual Meeting of the American Association of Colleges of Pharmacy, Anaheim, CA, July 2016.

Dayer L, Warmack S, **Flowers S**. Variations of Campus Assignment Policies at Colleges of Pharmacy with Distant Campuses, Annual Meeting of the American Association of Colleges of Pharmacy, National Harbor, MD, July 2015.

Heldenbrand S, Bordelon B, **Flowers S**, Martin B. Multivariate Analysis of the Multiple Mini-Interview as a Predictor of Academic Difficulty in the Pharm.D. Curriculum, American Academy of Colleges of Pharmacy, At Grapevine Texas, Volume: July 2014.

Dayer L, **Flowers S**, Dunn E. Evaluation of community pharmacists' perceived confidence identifying drug/herbal interactions and adverse drug events with oral antineoplastic agents. American College of Clinical Pharmacy Virtual Poster Symposium. May 20-21, 2014. (Pharmacotherapy 2014; 34 (6): e74-115. [Abstract 15]).

Payakachat, N. Norman, S. Pace, A. **Flowers, S.** et al. Diminished Quality of Life among US student Pharmacists: how self-perception toward pharmacy study plays a role? Quality of Life Research Conference, 2012.

Auto-refill and Prescription Alerts in Medication Adherence Initiatives will be presented as a contributed papers poster at the American Pharmacists Association (APhA) Annual Meeting & Exposition, Haynes S, Pace A, **Flowers S**. March 9-12, 2012, New Orleans, LA.

Evaluation of Patient's Responses to New Pseudoephedrine Regulations will be presented as a contributed papers poster at the American Pharmacists Association (APhA) Annual Meeting & Exposition, Goings B, **Flowers S**, Pace A. March 9-12, 2012, in New Orleans, LA.

Introductory Pharmacy Practice Experience (IPPE) Preceptors' Perception of the Likert Based Grading Scale in Objectively Evaluating Students, APhA Annual Meeting, Butler S, Neill K, **Flowers S**. March 2012 New Orleans, LA.

An Evaluation of Student-Identified P3 Longitudinal IPPEs in the Community Setting, Presented at the APhA Annual Meeting, Butler S, Neill K, **Flowers S**. March 2012 New Orleans, LA.

Student Identified P3 Longitudinal Introductory Pharmacy Practice Experiences (IPPEs) in Health-System Settings, Butler S, Neill K, **Flowers S**. Presented at the Arkansas Association of Health System Pharmacists Fall Seminar, Little Rock, AR, October 2011.

Using a Video Diary to Document Student Pharmacist Political Advocacy Activities, Pace A, **Flowers S**. Presented at the Annual Meeting of the American Association of Colleges of Pharmacy, San Antonio, TX, July 2011.

Use of a Mock Trial for Honor Council Training, DeHart R, Bassham L, **Flowers S**, Gubbins P. Presented at the Annual Meeting of the American Association of Colleges of Pharmacy, San Antonio, TX, July 2011.

A P3 Longitudinal Introductory Pharmacy Practice Experience (IPPE) Consisting of Student-Identified Activities, K Neill, **Flowers S**. Presented at the Annual Meeting of the American Association of Colleges of Pharmacy, San Antonio, TX, July 2011.

Student Pharmacists' Opinions on Providing Continuing Education, **Flowers S**, Browning C, Maulden M. Presented at the Annual Meeting of the American Association of Colleges of Pharmacy, San Antonio, TX, July 2011.

A Penny Saved is a Penny Earned, Estimated Cost Avoidance of Travel Vaccines, Crumbaugh E, **Flowers S**. Presented at the 12th Conference of the International Society of Travel Medicine, Boston, MA, May 2011.

Perceived usefulness and comfort level of primary care physicians in referring patients for pharmacist-provided clinical services, Stafford R, **Flowers S**. Presented at the APhA Annual Meeting, Seattle, WA, March 2011.

Impact of training student pharmacists on an electronic platform to document MTM encounters, , Pace A, **Flowers S**. Presented at the Annual Meeting of the American College of Clinical Pharmacists, Austin, TX, October 2010.

Impact Of Using Nonprescription Products In Nonprescription Medicine Elective Recitation, **Flowers S**, Pace A, and Hastings J. Presented at the Non-Prescription Medicines Academy Annual Meeting , Cinicinnatti OH, September 2010.

Comparison of Preferred Incentives, Motivation and Satisfaction of Community and Institutional APPE Preceptors in Arkansas, **Flowers S**, Neill K, Spadaro D. Presented at the Annual Meeting of the American Association of Colleges of Pharmacy, Seattle WA, July 2010.

Preferred Communication Methods among Pharmacy Students, O'Brien C, **Flowers S**, Payakachat N, Stowe C. Presented at the Annual Meeting of the American Association of Colleges of Pharmacy, Seattle WA, July 2010.

Tobacco Taxes and Pharmacy Involvement in Tobacco Cessation: Products and Counseling. Lute M, Pace A, **Flowers S**. Presented at APhA annual meeting, Washington D.C., March 2010. *J Am Pharm Ass* 2010;50(2):304.

Impact of Advanced Pharmacy Practice students providing live drug therapy or patient centered care Continuing Education to Arkansas pharmacists, **Flowers S**, Pace A, and Hastings J. Presented at the Annual Meeting of the American Association of Colleges of Pharmacy, Boston, MA July 2009.

Determining Motivation and Overall Satisfaction of Arkansas APPE Preceptors, **Flowers S**, Pace A, and Hastings J. Presented at the Annual Meeting of the American Association of Colleges of Pharmacy, Boston, MA July 2009.

Comparison of Responses to Employer and Graduating Senior Surveys, O'Brien C, PharmD, **Flowers S**, PharmD, and Stowe C, PharmD. Presented at the Annual Meeting of the American Association of Colleges of Pharmacy, Boston, MA July 2009.

The impact a political advocacy course can have on student pharmacists level of advocacy, Pace A, **Flowers S**, APhA annual meeting, San Antonio, TX, April 2009. *J Am Pharm Ass* 2009;49(2):288.

Improving Community Pharmacy Residents teaching skills by utilizing the residents in recitation for a non-prescription medications course, Hastings J, **Flowers S**, Pace A, APhA annual meeting, San Antonio, TX, April 2009. *J Am Pharm Ass* 2009;49(2):320.

The Effect of Marketing pharmacy compounding services on prescription volume and gross profit margin, Rutledge D, **Flowers S**, APhA annual meeting, San Antonio, TX, April 2009. *J Am Pharm Ass* 2009;49(2).

Effect of Pharmacists and Student Pharmacists as providers of immunizations on the total number of influenza vaccines administered in Arkansas, Crumbaugh E, **Flowers S**, APhA annual meeting, San Antonio, TX, April 2009. *J Am Pharm Ass* 2009;49(2).

Arkansas pharmacists' attitudes on providing immunizations in community pharmacies, Pace A, **Flowers S**, Hastings J. APhA Annual Meeting, San Antonio, TX, April 2009. *J Am Pharm Ass* 2009;49(2):300.

An interview objective structured clinical examination (OSCE): Multiple mini-interview (MMI). Stowe CD, **Flowers S**, Warmack TS, O'Brien CE, Gardner SF American Association of Colleges of Pharmacy Annual Meeting, Chicago, IL, July 2008. *American Journal of Pharmaceutical Education* 2008;72(3):72.

Evaluation of Barriers to Healthcare in Participants of a Community Health Screening, Crumbaugh E, **Flowers S**. APhA Annual Meeting, San Diego, CA March 2008. *J Am Pharm Ass* 2008.

PROFESSIONAL MEDIA APPEARANCES

| | |
|------|--|
| 2011 | American Pharmacist Month, KARK 4 News, September |
| 2010 | Immunization, American Pharmacists Month, KATV 7 News, October, Administer influenza vaccine to on-air personalities |
| 2010 | Diabetic screening in community pharmacy, KTHV 11 News, September |
| 2010 | Pharmacist Screenings in Community Pharmacy, KARK 4 News, September |
| 2009 | American Pharmacist Month, KARK 4 News, October Diabetes, cholesterol, hypertension screening on-air |

PROFESSIONAL DEVELOPMENT

Student Instruction & Learning – Courses Attended

Dr. Paul Koles, Dept of Pathology, Boonshoft School of Medicine. *TBL 101: Basics of Team Based Learning and How to Build a TBL Module from Scratch*, Little Rock, AR, April 19 and 20, 2012.

McKesson Pharmacy Ownership Workshop. *Entrepreneurship in Community Pharmacy; How to Write a business Plan/Loan Package; Community Pharmacy Valuation/Junior Partnership; Financial Analysis; Banking and Accounting 101; Technology to Improve Your Workflow; Practical Marketing*. Atlanta Georgia, February, 2011.

Nonprescription Medicines Academy Annual Conference. *Effective Teaching Descriptions and Traits for Self-Care and Beyond; Patient Care innovation; A Look inside the FDA Advisory Committee; Implementation of a Public Health Project into a Self-Care Course*. Cincinnati, Ohio. October 2010.

American Pharmacist Association, Self-Care Institute. *Student Assessment: Using rubrics and Portfolios to Understand Evaluate and improve Student Learning; Applying Student Learning in Self-Care Education-Meeting ACPE's Challenge; Fostering Critical thinking-An Interactive Approach; Innovative Self-Care Practices in Community Pharmacy*. Philadelphia, Pennsylvania. June 2007.

Nonprescription Medicines Academy, Ninth Annual Conference. *Using Student Self and Peer Evaluation to Teach Professionalism; Dietary supplement or Drug?; Creating Awareness about the Business of Self-Care; Implementation of "Virtual Patients" into a Large Classroom; evaluation of Calcium Supplementation in Biophosphonates*. Cincinnati, Ohio. October 2006.

Professional Development- Scholarship

| | |
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| 2008-2016 | Dean's Leadership Book Club |
| 2013 | Institute for Strategic Funding: Strategic Grant Development Writing Workshop |
| 2010 | ACCP Writing Workshop |
| 2009 | NIH Grant Application Seminar |

Administration

ACPA/NASPA Professional Competencies for Student Affairs Practitioners, webinar April 24, 2012.

AACP Inaugural Experiential Education Administrator's Workshop. *ACPE Standards and Guidelines; Systems to Manage Operations*. Chicago, Illinois, September 2007.

PROFESSIONAL SERVICE: COMMITTEES, BOARDS & EVENTS

National Level

| | |
|--------------|---|
| 2017-2018 | Immediate Past Chair, AACP Council of Sections |
| 2017-2018 | Chair, AACP Annual Meeting Program |
| 2016-2017 | Chair, AACP Council of Sections |
| 2014-2018 | Member, AACP Board of Directors |
| 2011-Present | ACPE Site Evaluator Team Member |
| 2015-2016 | AACP New Investigator Award Committee |
| 2015 | Chair-Elect, AACP Council of Sections |
| 2011-2015 | Non-Prescription Medicines Academy Steering Committee |
| 2013 | Past Chair, AACP Experiential Section |
| 2013 | Secretary, AACP Council of Sections |
| 2012 | Chair, AACP Experiential Section |
| 2010-2012 | AACP Non-Prescription Medicines SIG Nominations Committee |

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| 2009-2012 | AACP Non-Prescription Medicines SIG Programming Committee |
| 2011 | Chair-elect, AACP Experiential Section |
| 2010-2011 | AACP Advocacy Committee |
| 2009 | Slated, Chair-elect, AACP Experiential Section |
| 2007 | APhA Poster Judge, American Pharmacists Association National Meeting, Atlanta, GA |

State Level

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| 2007 | Auditor, Arkansas Pharmacist Association Cost-Dispensing Survey |
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University Service

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| 2019-present | Chancellor's Cabinet |
| 2019-present | Council of Deans |
| 2018-present | Culinary Medicine Community Engagement Committee |
| 2018 | Chair- UAMS Title IX/ADA Director Search Committee |
| 2016-Present | Chancellor's Diversity Affairs Committee |
| 2013-Present | UAMS Student Information System Core Project Team |
| 2014-Present | GUS Student Records Committee |
| 2012-Present | Chancellor's Minority Recruitment and Retention Committee |
| 2010-Present | UAMS Global Health Initiative Committee |
| 2013 | UAMS Educators Academy |
| 2012 | UAMS Academic Computing Advisory Committee |
| 2012 | UAMS Technology Committee |
| 2010-2011 | UAMS Student Progression Ad-Hoc Committee |
| 2010-2011 | UAMS Special Test-taking Accommodations Committee |
| 2010 | UAMS Satellite Campus Self-Study Leadership Team |
| 2007 | Bright Horizons Faculty Focus Group |

2007 UAMS Self Study Co-Chair Student Section

2006 Get Healthy UAMS Employee Screenings

College Level

2010-Present New Faculty Orientation

2009-Present P4 Student Immunization project

2008-Present Student Leadership Program Co-Director/ Advisor

2008-Present UAMS College of Pharmacy Student Exchange Coordinator

2007-Present College of Pharmacy Executive Committee

2007-Present College of Pharmacy Career Fair

2006-Present Faculty Advisor, NCPA Business Plan Competition

2005-Present Judge, APhA-ASP Patient Counseling Competition

2006-2014 Faculty Reviewer, PCEP

2012 UAMS College of Pharmacy Cultural Competency
Ad Hoc Committee

2012 Chair, UAMS College of Pharmacy Admissions Committee

2005-2011 UAMS College of Pharmacy Admissions Committee

2009-2010 P1 Orientation Vaccine Administration

2009 Chair, UAMS College of Pharmacy Admissions Committee

2007-2008 UAMS College of Pharmacy Portfolio Ad-Hoc Committee

2006-2008 UAMS College of Pharmacy Assessment Committee

2006-2007 UAMS College of Pharmacy Self-Assessment Ad-Hoc Committee,
Leadership Member

2006 ASP Operation Immunization workshop

PROFESSIONAL PRACTICE EXPERIENCE

2005 Pharmacy Manager
Polk Otter Creek Pharmacy, Little Rock, Arkansas

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| | January 2005- July 2005 |
| 2003-2005 | Pharmacy Owner/Manager Flowers Family Pharmacy, Little Rock, Arkansas September 2003-January 2005 |
| 1999-2003 | Staff Pharmacist Market Place Pharmacy, Little Rock, Arkansas August 1999- September 2003 |

VOLUNTEER SERVICE

Student Lectures

Injection Technique Certification Practice/Check-off, Pharmacy Practice III Physical Assessment, UAMS College of Pharmacy, April-May 2006

Ownership/Acquisition of Independent Pharmacy, National Community Pharmacist Association student chapter, UAMS College of Pharmacy, November 2005

Point-of-Care Training Laboratory, Pharmacy Practice I, UAMS College of Pharmacy, September 2005

Presentations – Public Groups/Community Audiences

“Epi-Pen Training”, UAMS Head Start teachers and staff, Little Rock, Arkansas, October 2007

“How do I Get My Medicine?” Advice for Hurricane Katrina Victims, Geyer Springs First Baptist Church, Little Rock, Arkansas, October 2005
Managing Your Medicine and Brown Bag Review, Phillips County Community College, Stuttgart, Arkansas, October 2005

Understanding Medicare Part D, Villages of Otter Creek Senior Living Community, Little Rock, Arkansas, December 2004

“Tips for Managing Diabetes” and Glucose Screening, Villages of Otter Creek Senior Living Community, Little Rock, Arkansas, October 2004

Community Service

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| 2017-present | Arkansas Children’s Hospital Diabetes Advisory Board |
| 2016- present | JDRF volunteer |
| 2011 | “Beneath the Bridge” homeless screening and flu clinic |

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| 2011-2013 | Stone Soup Kitchen |
| 2010-2012 | Mexican Consulate Screenings and immunization fairs |
| 2009 | Arkansas Department of Health Immunization Clinic Saline County |
| 2007 | Encuentro Hispano Health Fair |
| 2007-2008 | Immunizations for Head Start parents |

PROFESSIONAL MEMBERSHIPS

American Pharmaceutical Association (APhA)

American Association of Colleges of Pharmacy (AACCP)

National Community Pharmacists Association (NCPA)

American College of Clinical Pharmacy (ACCP)

Nonprescription Medicines Academy

Arkansas Pharmacists Association

Rho Chi Pharmacy Honor Society

Phi Lambda Sigma Pharmacy Leadership Society