

# **Sarah A. M. Norman, Pharm.D., BCPS, BCPP**

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## **EDUCATION**

**The University of Arizona College of Pharmacy**, Tucson, AZ

Doctor of Pharmacy – May 2013

**Southwestern Michigan College**, Dowagiac, MI

Associate in Science, Pre-pharmacy – May 2003

Associate in Applied Science, Business Administration – May 2003

Associate in Arts, Business Administration – August 2002

## **POST GRADUATE TRAINING**

**University of Maryland School of Pharmacy**, Baltimore, MD

ASHP-Accredited Post Graduate Year Two Psychiatric Pharmacy Residency – June 2016

**University of Montana Skaggs School of Pharmacy**, Missoula, MT

ASHP-Accredited Post Graduate Year One Pharmacy Practice Residency – June 2014

## **LICENSURES**

**08/2015 – 02/2017                      Pharmacist, State of California**

**07/2015 – 02/2017                      Pharmacist, State of Maryland**

**06/2014 – 02/2018                      Pharmacist, State of Texas**

**06/2013 – 06/2017                      Pharmacist, State of Montana**

**06/2013 – 10/2018                      Pharmacist, State of Arizona**

## **CERTIFICATIONS**

**12/2016 – 12/2023                      Board Certified Psychiatric Pharmacist**  
Board of Pharmacy Specialties

**12/2016                                      Post-Baccalaureate Certificate in Instructional Systems Development**  
University of Maryland Baltimore County

**02/2016 – 02/2018                      Naloxone Overdose Response Program Certificate Holder**  
Howard County Health Department

**10/2015                                      Preceptor Certification**  
Montana Board of Pharmacy

<b>12/2014 – 12/2021</b>	<b>Board Certified Pharmacotherapy Specialist</b> Board of Pharmacy Specialties
<b>10/2014 – 02/2018</b>	<b>Preceptor Certification</b> Texas Board of Pharmacy
<b>06/2014</b>	<b>Teaching Certificate</b> University of Montana Skaggs School of Pharmacy
<b>03/2012</b>	<b>Basic Tobacco Intervention Skills Certification</b> HealthCare Partnership, The University of Arizona
<b>07/2011 – 07/2018</b>	<b>Arizona Certified Immunization Pharmacist</b> Arizona Board of Pharmacy
<b>02/2011</b>	<b>Pharmacy-Based Immunization Delivery Certification</b> American Pharmacists Association
<b>11/2010 – 07/2018</b>	<b>Human Subjects Research Certification</b> Collaborative Institutional Training Initiative
<b>11/2008 – 12/2017</b>	<b>Basic Life Support Certification</b> American Heart Association

## **PROFESSIONAL EXPERIENCE**

<b>07/2016 – Present</b>	<b>Clinical Assistant Professor</b> Department of Pharmacy Practice and Clinical Sciences University of Texas El Paso School of Pharmacy, El Paso, TX
<b>02/2015 – 04/2015</b>	<b>Clinical Staff Pharmacist</b> Central Texas Medical Center, San Marcos, TX
<b>12/2014 – 06/2015</b>	<b>Clinical Staff Pharmacist</b> Warm Springs Kyle Rehabilitation Hospital, Kyle, TX
<b>01/2014</b>	<b>Independent Consultant Pharmacist</b> Mental Disabilities Board of Visitors
<b>07/2013 – 06/2014</b>	<b>Clinical Staff Pharmacist</b> Providence Saint Patrick Hospital, Missoula, MT

## **POST GRADUATE YEAR TWO PSYCHIATRIC RESIDENCY ROTATIONS**

<b>05/2016 – 06/2016</b>	<b>Adult Psychiatry II</b> Springfield Hospital Center, Sykesville, MD Preceptor: Bethany DiPaula, Pharm.D., BCPP
<b>03/2016 – 05/2016</b>	<b>Adult Psychiatry I</b> Springfield Hospital Center, Sykesville, MD Preceptor: Bethany DiPaula, Pharm.D., BCPP

<b>02/2016 – 03/2016</b>	<b>Orientation</b> Springfield Hospital Center, Sykesville, MD Preceptor: Michele Thomas, Pharm.D., BCPP
<b>01/2016 – 02/2016</b>	<b>Hospice and Palliative Care Elective</b> Hospice of the Chesapeake & Seasons Hospice and Palliative Care, Baltimore, MD Preceptor: Mary Lynn McPherson, Pharm.D., BCPS, CPE
<b>12/2015 – 01/2016</b>	<b>Research Elective</b> Maryland Psychiatric Research Center, Catonsville, MD Preceptor: Deanna Kelly, Pharm.D., BCPP
<b>11/2015 – 06/2016</b>	<b>Ambulatory Care (longitudinal)</b> Howard County Health Department, Columbia, MD Preceptor: Bethany DiPaula, Pharm.D., BCPP
<b>11/2015 – 12/2015</b>	<b>Adult Psychiatric Continuing Care II</b> Spring Grove Hospital Center, Catonsville, MD Preceptor: Sheryl Thedford, Pharm.D., BCPP
<b>10/2015 – 11/2015</b>	<b>Adolescent Psychiatry</b> Spring Grove Hospital Center, Catonsville, MD Preceptor: Sheryl Thedford, Pharm.D., BCPP
<b>09/2015 – 04/2016</b>	<b>Performance Improvement (longitudinal)</b> Springfield Hospital Center, Sykesville, MD Preceptor: Michele Thomas, Pharm.D., BCPP
<b>08/2015 – 10/2015</b>	<b>Adult Psychiatric Continuing Care I</b> Spring Grove Hospital Center, Catonsville, MD Preceptor: Sheryl Thedford, Pharm.D., BCPP
<b>07/2015 – 08/2015</b>	<b>Geriatric Psychiatry</b> Spring Grove Hospital Center, Catonsville, MD Preceptor: Ashley Nazareno, Pharm.D., BCPP
<b>07/2015 – 06/2016</b>	<b>Teaching Certificate (longitudinal)</b> University of Maryland School of Pharmacy, Baltimore, MD Preceptor: Jason Noel, Pharm.D., BCPP
<b>07/2015 – 07/2015</b>	<b>Orientation</b> Spring Grove Hospital Center, Catonsville, MD Preceptor: Ashley Nazareno, Pharm.D., BCPP

## **POST GRADUATE YEAR ONE PHARMACY PRACTICE RESIDENCY ROTATIONS**

<b>06/2014 – 06/2014</b>	<b>Emergency Department</b> Providence Saint Patrick Hospital, Missoula, MT Preceptor: Carla Federici, Pharm.D., BCPS
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<b>04/2014 – 06/2014</b>	<b>Cardiology</b> Providence Saint Patrick Hospital, Missoula, MT Preceptor: Carla Federici, Pharm.D., BCPS
<b>03/2014 – 04/2014</b>	<b>Critical Care &amp; Nutrition</b> Providence Saint Patrick Hospital, Missoula, MT Preceptors: Marian Maxwell, Pharm.D., BCPS Sarah Miller, Pharm.D., BCNSP
<b>01/2014 – 03/2014</b>	<b>Inpatient Acute Adult and Adolescent Psychiatry</b> Providence Saint Patrick Hospital Preceptor: William Docktor, Pharm.D., BCPS
<b>01/2014 – 6/2014</b>	<b>Chronic Pain Ambulatory Care (longitudinal)</b> Montana Spine and Pain Center, Missoula, MT Preceptor: Leann Bradley, Pharm.D., BCPS
<b>11/2013 – 01/2014</b>	<b>Administration</b> Providence Saint Patrick Hospital, Missoula, MT Preceptor: Danielle Sebastian, Pharm.D., BCPS
<b>10/2013 – 11/2013</b>	<b>Emergency Department/Operating Room</b> Providence Saint Patrick Hospital, Missoula, MT Preceptor: Carla Federici, Pharm.D., BCPS
<b>09/2013 – 10/2013</b>	<b>Internal Medicine</b> Providence Saint Patrick Hospital, Missoula, MT Preceptor: Teresa Stanley, Pharm.D., BCPS
<b>08/2013 – 09/2013</b>	<b>Inpatient Acute Pain Management</b> Providence Saint Patrick Hospital, Missoula, MT Preceptor: Ken Hayataka, Pharm.D.
<b>07/2013 – 12/2013</b>	<b>Underserved Populations Ambulatory Care (longitudinal)</b> Partnership Clinic, Missoula, MT Preceptor: Kerry Haney, Pharm.D.
<b>07/2013 – 08/2013</b>	<b>Orientation</b> Providence Saint Patrick Hospital, Missoula, MT Preceptor: Danielle Sebastian, Pharm.D., BCPS

## **PEER REVIEWED ABSTRACTS PRESENTED AND OR PUBLISHED**

10. **Norman SM**, Kitchen C, Felder RA, Gildea JJ, Xu P, McMahon RP, DiPaula BA, Jose PA, Kelly DL. Dopamine receptor type 4 (D4R) and the mechanism of hypertension associated with clozapine treatment. J Pharm Pract. 2016;29(3):297. Presented at the College of Psychiatric and Neurologic Pharmacists Annual Meeting in Colorado Springs, CO, April 2016.
9. **Norman SM**, Sullivan KM, McMahon RP, Jose PA, Kelly DL. Analysis of blood pressure and heart rate before and during clozapine treatment. J Pharm Pract. 2016;29(3):277. Presented at the College of Psychiatric and Neurologic Pharmacists Annual Meeting in Colorado Springs, CO, April 2016.

8. **Norman S**, Kitchen C, Felder R, Gildea J, Xu P, McMahon R, DiPaula B, Jose PA, Kelly DL. Dopamine receptor type 4 (D4R) and the mechanism of hypertension associated with clozapine treatment. Presented at the University of Maryland School of Pharmacy Research Day in Baltimore, MD, April 2016.
7. **Norman S**, Sebastian D, Federici C. Impact of electronic prescription data system implementation on medication reconciliation completion times. Presented at the Northwestern States Convention in Coeur d'Alene, ID, May 2014.
6. **Norman S**, Sebastian D, Federici C, Carter J, Docktor W. Impact of a designated pharmacy technician performing medication reconciliation by telephone on reducing medication reconciliation completion time at a behavioral health facility. *J Pharm Pract.* 2014;27(3):281. Presented at the College of Psychiatric and Neurologic Pharmacists Annual Meeting in Phoenix, AZ, April 2014.
5. **Norman S**, Sebastian D, Gren C. Comparison of medication reconciliation completion times before and after electronic prescription data system implementation. Presented at the American Society of Health System Pharmacists Midyear Meeting in Orlando, FL, December 2013.
4. Osmundson J, Miller S, **Norman S**. Pharmacy resident presence at the American Diabetes Association sponsored Camp Montana. Presented at the American Society of Health System Pharmacists Midyear Meeting in Orlando, FL, December 2013.
3. Davis E, **Norman S**, Villa L, Warholak T, Goldstone LW. A Rasch analysis of a questionnaire evaluating patient reported medication attitudes and knowledge in an acute inpatient psychiatric setting. *J Pharm Pract.* 2013;26(3):307-308. Presented at the College of Psychiatric and Neurologic Pharmacists Annual Meeting in Colorado Springs, CO, April 2013.
2. Davis E, **Norman S**, Goldstone LW, Warholak T. The impact of a pharmacist-led medication education group of psychiatric patient reported medication attitudes and knowledge. *J Pharm Pract.* 2012;25(2):291. Presented at the College of Psychiatric and Neurologic Pharmacists Annual Meeting in Tampa, FL, April 2012.
1. **Norman S**, Pham NB, Kurniawan G, Scovis N, Kerschen A, Boesen K, Warholak T. Analysis of algorithms that generate clinical alerts at a medications management center: a quality improvement project. *J Am Pharm Assoc.* 2011;51(2):246-7. Presented at the American Pharmacists Association Annual Meeting & Exposition in Seattle, WA, March 2011.

## PEER REVIEWED JOURNAL ARTICLES

5. **Norman SM**, Sullivan KM, Liu F, DiPaula BA, Jose PA, Kitchen CA, Feldman SM, Kelly DL. Blood pressure and heart rate changes during clozapine treatment. *Psychiatr Q.* 2016 September 27. [Epub ahead of print].
4. **Norman S**, Davis E, Goldstone LW, Villa L, Warholak TL. A Rasch analysis of a questionnaire designed to evaluate patient-reported attitudes and knowledge of factors that impact medication adherence. *Res Social Adm Pharm* 2014;10:867-76.
3. Davis E, **Norman S**, Lindsey A. Opportunities for pharmacists in the criminal justice system. *Am J Health Syst Pharm.* 2012;69(22):1944-5. Letter
2. **Norman S**, Davis E, Goldstone L. Impact of pharmacist-led or co-led medication education groups on patient outcomes: a literature review. *The Ment Health Clin.* [Internet] 2012;2(4)80-82.

1. Goldstone L, Davis E, **Norman S**, Warholak T. Teaching patients how to effectively solve medication-related problems in an acute inpatient psychiatric setting. *The Ment Health Clin.* [Internet] 2012;2(4):86-90.

## ONGOING RESEARCH

**Norman SM**, Kitchen C, Felder RA, Gildea JJ, Xu P, Liu F, DiPaula BA, Jose PA, Kelly DL. Dopamine receptor type 4 (D<sub>4</sub>R) and the mechanism of hypertension associated with clozapine treatment. Objective: To evaluate D<sub>4</sub>R cell expression in urine in subjects prescribed clozapine compared to healthy controls not taking clozapine.

## TEACHING EXPERIENCE

**Paul L. Foster School of Medicine, Texas Tech University Health Sciences Center, El Paso, Texas**

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| <b>08/2016 – Present</b> | Pharmacology of Geriatric Depression, MS3 Internal Medicine/Psychiatry Clerkship Interprofessional Colloquium I, Recurring Lecture |
| <b>09/2016 – Present</b> | Drug-Induced Delirium, MS3 Internal Medicine/Psychiatry Clerkship Interprofessional Colloquium II, Recurring Lecture               |
| <b>09/2016 – Present</b> | Psychopharmacology 101, MS3 Internal Medicine/Psychiatry Clerkship, Weekly Discussion Group  |

**University of Texas at El Paso**

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| <b>09/2015</b> | Where Do Pharmacists Work, UNIV 1301-136 & 1301-210 Healthcare & Pharmacy in the Border Region, Guest Lecture |
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**08/2015 – 05/2016**      **University of Maryland School of Pharmacy, Baltimore Maryland**

Lectures Prepared and Presented:

- Pharmacy 5007 Psys, Sub Abuse and Tox:
    - Obsessive Compulsive Disorder/Post-traumatic stress disorder (1 hour)
  - Pharmacy 517 Geriatric Pharmacotherapy: The 3 D's, Depression (50 minutes)
- Active Learning Session
- Pharmacy 5007 Psys, Sub Abuse and Tox: OCD/PTSD/Anxiety Cases (1 hour)
- Group Teaching Facilitated:
- Abilities labs: P1 and P3, Case Discussions: P1 and P2, Grading: P1 and P2

**08/2014 – 04/2014**      **The University of Montana**  
**Skaggs School of Pharmacy, Missoula, Montana**

Lectures Prepared and Presented:

- Pharmacy 554 Therapeutics IV:
    - Bipolar disorder (2 hours), Depression (2 hours), Schizophrenia (3 hours)
  - Pharmacy 491 Special Topics Elective: Information on drugs of abuse (1 hour)
  - Pharmacy 391 Special Topics Elective: Personnel Placement Service (1 hour)
- Group Teaching Facilitated:
- Pharmacy 472 Integrated Studies IV: (Weekly 2 hour case discussion)
  - Pharmacy 471 Integrated Studies IV: (Weekly 2 hour case discussion)

**11/2013**      **School of Nursing**

Lectures Prepared and Presented

- Nursing 254 Complex Care/Mental Health Client: Alcoholism 2013 (40 minutes)

## SCHOLARLY PRESENTATIONS

### Regional Presentations

5. **Norman S.** Losing Control: Drug-induced Tardive Dyskinesia. Presented at University of Maryland School of Pharmacy Pharmacotherapy Rounds in Baltimore, MD. An ACPE accredited presentation. November 2015.
4. **Norman S.** The use of atypical antipsychotics in borderline personality disorder (BPD): Black, White or Gray. Presented at The University of Texas at Austin College of Pharmacy Pharmacotherapy Rounds in Austin, TX. Handout available at: <http://www.utexas.edu/pharmacy/divisions/pharmaco/rounds/norman10-17-14.pdf>. October 2014.
3. **Norman S.** Impact of availability of pharmacy claims data at patient admission on reducing medication reconciliation time. Presented at Western States Conference in San Diego, CA. An ACPE accredited presentation. May 2014.
2. **Norman S.** Updates in Human Immunodeficiency Virus (HIV) Therapy. Presented at the Recent Drug Developments and Law Update 2014 Conference in Missoula, MT. An ACPE accredited presentation. March 2014.
1. Belitsos A, Rorke J, Power C, **Norman S.** Implementing evidence-based practices in problem solving courts and other criminal justice settings. A panel discussion at the Arizona problem solving courts conference for the Arizona Association of Drug Court Professionals in Glendale, AZ. May 2012.

### Local Presentations

**Norman S.** Highs and Lows: A Review of Bipolar Disorder and Its Treatment. Presented at the El Paso Pharmacy Association 8<sup>th</sup> Annual Conference. El Paso, TX. August 2016.

### Other Presentations

13. **Norman S.** Medication Incident Report Summary for May 2016. A presentation to Springfield Pharmacy Department. Sykesville, MD. June 2016.
12. **Norman S.** Lithium Toxicity. A morbidity and mortality rounds presentation to Springfield Pharmacy Department. Sykesville, MD. June 2016.
11. **Norman S.** Benzodiazepine usage at Springfield Hospital Center. A medication use evaluation presentation to Springfield Hospital P&T Committee. Sykesville, MD. May 2016.
10. **Norman S.** Depression and End of Life. A journal club presentation to pharmacy residents, pharmacy students and preceptors. Arundel Mills, MD. February 2016.
9. **Norman S.** Suvorexant. A formulary review presentation to the Maryland Statewide P&T Committee at Spring Grove Hospital Center. Catonsville, MD. January 2016.
8. **Norman S.** Dopamine Receptor Type 4 (D<sub>4</sub>R) and the Mechanism of Hypertension Associated with Clozapine Treatment. A Lunch and Learn presentation to pharmacy residents, residency program directors, and preceptors in Baltimore, MD. September 2015.
7. **Norman S.** Impact of a designated pharmacy technician performing medication reconciliation by telephone on reducing medication reconciliation completion time at a behavioral health facility. A pharmacy resident project presentation to P&T committee and the Medication Safety Committee in Missoula, MT. May 2014.

6. **Norman S.** Comparison of medication reconciliation completion times before and after electronic prescription data system implementation. A pharmacy resident project presentation to the P&T Committee and the Medication Safety Committee in Missoula, MT. March 2014.
5. **Norman S.** Vortioxetine: A summary and evaluation of 3 major clinical trials leading to FDA approval. A journal club presentation to pharmacists, physicians, medical residents, medical students, nurses and dieticians in Missoula, MT. March 2014.
4. **Norman S.** Levomilnacipran and vortioxetine, updates on the latest in antidepressant therapy. An invited presentation to attending psychiatric physicians and multiple other providers, quarterly psychiatric department meeting in Missoula, MT. March 2014.
3. **Norman S.** Dolutegravir: A summary and evaluation of 3 major clinical trials leading to FDA approval. A journal club presentation to pharmacists, physicians, physician residents, medical students, nurses and dieticians in Missoula, MT. September 2013.
2. **Norman S.** Psychosis, agitation, aggression and delirium in the elderly. An in-service presentation for emergency room nurses and administration in Missoula, MT. November 2013.
1. **Norman S.** Davis E. Medication assisted treatment (MAT) for criminal justice populations adapted with permission from an original presentation by Thomas Freese, PhD. A presentation to probation officers, administration, staff, and Compass Behavioral Health at Pima County Drug Court in Tucson, AZ. April and May 2012.

## **AWARDS**

- 05/2012      Leadership Excellence**  
Awarded by The University of Arizona College of Pharmacy, Tucson, AZ
- 03/2012      Induction into Phi Lambda Sigma**  
Awarded by The University of Arizona College of Pharmacy, Alpha Tau Chapter, Tucson, AZ

## **SERVICE ACTIVITIES**

### **Academic Service**

- 08/2016 – Present      University of Texas at El Paso School of Pharmacy**  
Committees  
     Patient Care, Practice, and Innovations  
     Integrated Systems Based Pharmacotherapy  
     Experiential Education  
     Interprofessional Education – School of Pharmacy  
     Curriculum  
     Capstone  
     Research
- 10/2015      University of Maryland School of Pharmacy**  
Exam Preparation Committee



## **Hospital Service**

<b>02/2016 – 06/2016</b>	<b>Springfield Hospital</b> P&T Committee
<b>09/2015 – 06/2016</b>	<b>Maryland State Hospital Network</b> P&T Committee
<b>07/2013 – 06/2014</b>	<b>Providence Saint Patrick Hospital, Missoula, MT</b> Medication Safety Committee P & T Committee

## **Professional Organizations Service**

<b>06/2016 – Present</b>	<b>Field tester</b> ASHP 2016 Pharmacotherapy Review and Recertification Course
<b>08/2015 – 11/2015</b>	<b>Maryland Society of Health-System Pharmacists (MSHP) Emerging Practitioners Committee</b> <ul style="list-style-type: none"><li>• <u>Residency Showcase Committee</u><ul style="list-style-type: none"><li>○ Recruited and organized presenters to speak on residency and fellowship topics</li><li>○ Recruited pharmacists to provide curriculum vitae review for pharmacy students</li><li>○ Oversaw student recruitment at local schools of pharmacy</li></ul></li></ul>
<b>02/2014 – Present</b>	<b>Reviewed abstracts</b> submitted in multiple categories for poster presentation at the College of Psychiatric and Neurologic Pharmacists Annual Meeting

## **Community Service**

<b>09/2016</b>	<b>HOPE 3 Health Fair Coordinator and Preceptor</b> Opportunity Center for the Homeless
<b>09/2016</b>	<b>Lions Club Eye Clinic Preceptor</b> Opportunity Center for the Homeless
<b>10/2015</b>	<b>Pharmacy Perspectives Round Table</b> Perspectives in Mental Health Elective The University of Maryland School of Pharmacy
<b>09/2015</b>	<b>Fitness and Nutrition Presentation</b> A Bridge to Academic Excellence Program
<b>09/2015</b>	<b>Pharmacy Residency Panel</b> Notre Dame of Maryland School of Pharmacy
<b>2014</b>	<b>Medication-Assisted Treatment 101 curricula</b> The University of Arizona Center for Applied Behavioral Health Policy, subject matter expert reviewer
<b>07/2013</b>	<b>Diabetes Camp Montana</b> Sponsored by American Diabetes Association,
<b>05/2012 – 04/2013</b>	<b>Project Honoring Your Gift: A Faith-Based Health Improvement Study</b>
<b>01/2012 – 05/2012</b>	<b>Interprofessional Senior Mentor Program</b>
<b>11/2011</b>	<b>Students Advocating Sun Safety</b>
<b>05/2011 – 05/2012</b>	<b>Patient Education Co-chair</b> affiliated with the Arizona Poison Control Center

<b>04/2011 – 04/2012</b>	<b>HIV/AIDS Awareness Week Coordinator affiliated with the International Pharmaceutical Students Federation</b>
<b>02/2011 – 05/2012</b>	<b>Pharmacy Consultant</b> Criminal Justice Drug Abuse Treatment Studies II (CJ-DATS II). National Institutes of Health (NIH), Tucson, AZ Under the supervision of Terri Warholak, Ph.D., R.Ph.
<b>11/2010 – 11/2011</b>	<b>Diabetes Screening Coordinator affiliated with the American Pharmacists Association Academy of Student Pharmacists</b>
<b>2010</b>	<b>Designed a website (<a href="http://www.bipolar disorder and you.com">www.bipolar disorder and you.com</a>)</b> Under the guidance of Dr. John Gilkey, Ph.D. for individuals with bipolar disorder
<b>10/2009 – 11/2009</b>	<b>Open Airways for Schools: An asthma management program</b> A six-week course for children ages 8 to 11 at Bloom Elementary School in Tucson, AZ

## **PROFESSIONAL AFFILIATIONS**

<b>2016 – Present</b>	<b>National Alliance on Mental Illness</b>
<b>2011 – Present</b>	<b>College of Psychiatric and Neurologic Pharmacists</b>
<b>2010 – Present</b>	<b>American College of Clinical Pharmacy</b>
<b>2009 – Present</b>	<b>American Pharmacists Association</b>
<b>2009 – Present</b>	<b>American Society of Health-System Pharmacists</b>
<b>2009 – Present</b>	<b>Arizona Pharmacy Association</b>