

Carrie Martin Blanchard, PharmD, MPH

Curriculum Vitae

January 2020

PERSONAL INFORMATION

Business Address

UNC Eshelman School of Pharmacy
Campus Box 7574, 2400 Kerr Hall
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina 27599-7574

Phone

Work: 919-966-8879
Cell: 803-491-4650

Email

carriebm@email.unc.edu

EDUCATION AND TRAINING

Postdoctoral Fellowship in Implementation Science

July 2016 – April 2018

UNC Eshelman School of Pharmacy
National Implementation Research Network
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina
Fellowship Advisors: Mary Roth McClurg, PharmD, MHS

Master of Public Health

August 2016 – July 2017

Department of Health Policy and Management
UNC Gillings School of Global Public Health
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina
Advisor: Sarah Birken, PhD

Doctor of Pharmacy with Honors

August 2012 – May 2016

UNC Eshelman School of Pharmacy
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina

NIH Post-baccalaureate Intramural Research Training Award

June 2009 – July 2012

Laboratory of Molecular Microbiology
National Institute of Allergy and Infectious Disease
Bethesda, Maryland
Advisor: Christine A. Kozak, PhD

Bachelor of Arts in Chemistry with Honors

August 2005 – May 2009

Minor in Biology
Wake Forest University
Winston-Salem, North Carolina

PROFESSIONAL EXPERIENCE

Director, Health Policy Fellowship May 2018 - present
Center for Medication Optimization
Division of Practice Advancement and Clinical Education
UNC Eshelman School of Pharmacy
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina

Research Assistant Professor May 2018 - present
Lead of Educational and Research Development
Center for Medication Optimization
Division of Practice Advancement and Clinical Education
UNC Eshelman School of Pharmacy
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina

Research Assistant May 2013 – August 2015
Division of Molecular Pharmaceutics
UNC Eshelman School of Pharmacy
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina
Advisor: Xiao Xiao, PhD

Pharmacy Intern October 2012 – May 2013
WakeMed Hospital
Raleigh, North Carolina
Supervisor: Erin D. Koontz, PharmD

AWARDS AND HONORS

Walmart Scholar July 2017
American Association of Colleges of Pharmacy
Annual Meeting Resident/Fellow Travel Award October 2016
American College of Clinical Pharmacy
Office of Student Affairs Impact Award April 2016
UNC Eshelman School of Pharmacy
Eshelman Professional Student Scholarship August 2014 – May 2016
UNC Eshelman School of Pharmacy
Banks D. Kerr Scholarship August 2013 – May 2014
UNC Eshelman School of Pharmacy
Outstanding Presentation May 2011
NIH Post-baccalaureate Research Festival; Bethesda, Maryland
The Becton Family Scholarship August 2008 – May 2009
Wake Forest University
Dean's List Fall 2005 – Spring 2009
Wake Forest University

GRANTS AND CONTRACTS

Grants and Contracts Funded - Ongoing

Driving Quality and Engagement Across a Comprehensive Medication Management Provider Network via a Novel Pay-for-Performance Strategy. Eshelman Institute for Innovation and National Association of Chain Drug Stores. June 2019 – May 2021. Awarded \$510,000
Role: Co-Principle Investigator (Co-PI: Sorenson, T)

Optimizing medications for complex patients: Scaling CMM to specialty clinics. Eshelman Institute for Innovation. June 2019 – August 2020. Awarded \$100,000
Role: Co-Investigator (PI: Livet M)

Metric Validation and Implementation Support. UNC Health Care System Managed Pharmacy Solutions. July 2019 – June 2020. Contracted \$80,000
Role: Principle Investigator

Implementation and Evaluation of Comprehensive Medication Management within a High-risk At-home Population. Geisinger Center for Pharmacy Innovation and Outcomes. September 2018 – September 2020. Contracted \$47,000
Role: Principle Investigator

Grants and Contracts Funded - Complete

Readiness for CMM in Healthcare Specialty Clinics. Robert Wood Johnson/Fingerlakes Law and Social Policy Center. September 2018 – August 2019. Contracted \$35,000
Role: Co-Investigator (PI: Livet M)

Enhancing Performance in Primary Care Medical Practices through Implementation of Comprehensive Medication Management. American College of Clinical Pharmacy. January 2016 – December 2018. Awarded \$2,400,000
Role: Postdoctoral Fellow (PIs: McClurg MR and Sorenson T)

Grants and Contracts – Not Funded

Implementing a Novel Approach to Home-Based Medication Management. UNC School of Medicine Center for Health Innovation. Innovation Pilot Award. Submitted January 2019.
Role: Co-Principle Investigator

Development of a Patient-Journey Mapping Toolbox Specific to Medication Optimization. Eshelman Institute for Innovation. Submitted March 2019.
Role: Co-Principle Investigator

PUBLICATIONS (*Corresponding Author, ^Presenting Author, †Student Author, ‡Postgraduate Trainee Author)

Refereed Publications:

1. Smith, M.*, **Blanchard, C.**, Vuernick, E. The Intersection of Implementation Science and Pharmacy Practice Transformation. *Annals of Pharmacotherapy*. July 2019; Epub. doi: <https://doi.org/10.1177/1060028019867253>
2. Livet, M.*, **Blanchard, C.**, Frail, C., Sorensen, T., McClurg, M. Ensuring Effective Implementation: A Fidelity Assessment System for Comprehensive Medication Management. *Journal of the American College of Clinical Pharmacy*. July 2019; Epub. doi: <https://doi.org/10.1002/jac5.1155>
3. Livet, M.*, **Blanchard, C.**, Sorensen, T., McClurg, M. An implementation system for medication optimization: Operationalizing comprehensive medication management delivery in primary care. *Journal of the American College of Clinical Pharmacy*. Aug. 2018; Epub. doi: <https://doi.org/10.1002/jac5.1037>
4. **Blanchard, C.***, Livet, M., Ward, C., Sorge, L., Sorensen, T., McClurg, M. The Active Implementation Frameworks: A roadmap for advancing implementation of Comprehensive Medication Management in Primary Care. *Research in Social and Administrative Pharmacy*. May 2017; Epub. doi: <http://dx.doi.org/10.1016/j.sapharm.2017.05.006>
5. Zhao, C., Qiao, C., Tang, RH., Jiang, J., Li, J., **Martin, C.**, Bulaklak, K., Li, J., Wang, DW., Xiao, X.* Overcoming Insulin Insufficiency by Forced Follistatin Expression in β -cells of *db/db* Mice. *Molecular Therapy*. Feb. 2015; Epub. doi: 10.1038/mt.2015.29.
6. Qiao, C., Wang, C., Zhao, C., Lu, P., Awano, H., Xiao, B., Li, J., Yuan, Z., Dai, Y., **Martin, C.**, Li, J., Lu, Q., Xiao, X.* Muscle and heart function restoration in limb girdle muscular dystrophy 2I (LGMD2I) mouse model by systemic FKRP gene delivery. *Molecular Therapy*. Nov. 2014; Epub. doi: 10.1038/mt.2014.141.
7. Lu, X.[◇], **Martin, C.[◇]**, Bouchard, C., Kozak, CA.* Escape variants of the XPR1 gammaretrovirus receptor are rare due to reliance on a splice donor site and a short hypervariable loop. *Virology*, Aug. 2014; Vol. 468-470: 63-71. [◇]Contributed Equally
8. **Martin, C.**, Buckler-White, A., Wollenberg, K., Kozak, CA.* The Avian XPR1 Gammaretrovirus Receptor is Under Positive Selection and is Disabled in Bird Species In Contact with Virus-Infected Wild Mice. *Journal of Virology*, Sept. 2013; 87(18): 10094-10104
9. Yan, Y., Liu, Q., Wollenberg, K., **Martin, C.**, Buckler-White, A., Kozak, CA.* Evolution of Functional and Sequence Variants of the Mammalian XPR1 Receptor for Mouse Xenotropic Gammaretroviruses and the Human-derived XMRV. *Journal of Virology*, Nov. 2010; 84(22): 11970-80.

10. Sanville, B., Dolan, MA., Wollenberg, K., Yan, Y., **Martin, C.**, Yeung, ML., Strebel, K., Buckler-White, A., Kozak, CA.* Adaptive Evolution of *Mus Apobec3* Includes Retroviral Insertion and Positive Selection at Two Clusters of Residues Flanking the Substrate Groove. *PLoS Pathogens*, Jul 1, 2010. e1000974.

Refereed Presentations and/or Abstracts:

1. Graybill, M., Duboski, V., Wright, E., Kern, M., **Blanchard, C.**, Webster, L., Dombrowski, S., Ward, T., Gionfriddo, M. “Medication Therapy Problems Identified Through Comprehensive Medication Management by Pharmacists in a Team-Based at Home Care Program.” Accepted for presentation at the 2020 Health Care Systems Research Network Conference. Apr. 2020; Philadelphia, Pennsylvania.
2. **Blanchard, C.**[^], Livet, M., Sheppard, K., Sorensen, T., Roth McClurg, M. “Development of a self-assessment tool to measure fidelity to a pharmacy service to optimize medication use.” Podium presentation at the 12th Annual Conference on the Science of Dissemination and Implementation in Health. Dec. 2019; Crystal City, Virginia.
3. Livet, M., **Blanchard, C.**, Richard, C., Yannayon, M., Sheppard, K., Sorensen, T., Roth McClurg, M. “Measuring Implementation Outcomes: Development and Validation of a Survey for Pharmacy Practice.” Poster presentation at the 12th Annual Conference on the Science of Dissemination and Implementation in Health. Dec. 2019; Crystal City, Virginia.
4. **Blanchard, C.**[^], Webster, L., Wright, E., Dombrowski, S., Gionfriddo, M. “Implementation strategies to ensure consistent delivery of a pharmacy service within an at-home patient population.” Poster presented at the 12th Annual Conference on the Science of Dissemination and Implementation in Health. Dec. 2019; Crystal City, Virginia.
5. Roth, J., Kern, M., Frusciant, K., **Blanchard, C.**, Gionfriddo, M. “Integration of telephonic clinical pharmacy services within a team-based home care program.” Poster presented at American College of Clinical Pharmacy 2019 Annual Meeting. Oct. 2019; New York City, New York.
6. Webster, L., Wright, E., Dombrowski, S., Gionfriddo, M., **Blanchard, C.**[^] “Implementation strategies to ensure consistent delivery of a pharmacy service within an at-home patient population.” Poster presented at American College of Clinical Pharmacy 2019 Annual Meeting. Oct. 2019; New York City, New York.
7. Livet, M.[^], **Blanchard, C.**, Richard, C., Yannayon, S., Sorge, L., M., Sorensen, T. “Using improvement cycles as a strategy to accelerate implementation of a pharmacy service: Feasibility and lessons learned.” Poster presented at American College of Clinical Pharmacy 2019 Annual Meeting. Oct. 2019; New York City, New York.
8. **Blanchard, C.**^{*^}, and Luecking, C.[†] “Enhancing implementation science capacity through an interdisciplinary student learning network.” Poster presented at the 9th Annual

- Conference on the Science of Dissemination and Implementation in Health. December 2018. Washington, DC.
9. **Blanchard, C.*[^]**, Xu, J.[†], Roth McClurg, M., and Livet, M. “Reliability and Validity of a Patient Responsiveness Survey for Comprehensive Medication Management.” Poster presented at American College of Clinical Pharmacy 2018 Global Annual Meeting. Oct. 2018; Seattle, Washington.
 10. Frail, C.*[^], **Blanchard, C.**, Funk, K., Roth McClurg, M., and Sorensen, T. “Identifying Best Practices in Documenting Comprehensive Medication Management.” Poster presented at American College of Clinical Pharmacy 2018 Global Annual Meeting. Oct. 2018; Seattle, Washington.
 11. Livet, M.*[^], **Blanchard, C.**, Yannayon, M., Roth McClurg, M., and Sorensen, T. “Developing and validating a measure to assess progress and success with implementation of a pharmacy service to optimize medication use.” Encore poster presented at American College of Clinical Pharmacy 2018 Global Annual Meeting. Oct. 2018; Seattle, Washington.
 12. Livet, M.*[^], **Blanchard, C.**, Sorensen, T., McClurg, M. “An Implementation System for Pharmacy Practice: Operationalizing Effective Comprehensive Medication Management Delivery in Primary Care.” Poster presented at American College of Clinical Pharmacy 2018 Global Annual Meeting. Oct. 2018; Seattle, Washington.
 13. **Blanchard, C.*[^]**, Livet, M., Sorensen, T., and Roth McClurg, M. “Development of a Self-Assessment Tool to Measure Fidelity to a Pharmacy Service to Optimize Medication Use.” Poster presented at Pharmacy Quality Alliance 2018 Annual Meeting. May 2018; Baltimore, MD.
 14. Livet, M.*[^], **Blanchard, C.**, Yannayon, M., Roth McClurg, M., and Sorensen, T. “Developing and validating a measure to assess progress and success with implementation of a pharmacy service to optimize medication use.” Poster presented at Pharmacy Quality Alliance 2018 Annual Meeting. May 2018; Baltimore, MD.
 15. Wines, K.[†], **Blanchard, C.**, Roth McClurg, M., Livet, M.* “Development & Content Validation of an Organizational Capacity Tool for Comprehensive Medication Management in Primary Care.” Poster presented to 2018 American College of Clinical Pharmacy Virtual Poster Symposium. May 2018.
 16. Xu, J.[†], Livet, M., Roth McClurg, M., **Blanchard, C.*** “Development and Content Validation of a Patient Responsiveness Survey for Comprehensive Medication Management in Primary Care.” Poster presented to 2018 American College of Clinical Pharmacy Virtual Poster Symposium. May 2018.
 17. **Blanchard, C.*[^]**, Frail, C.K., Funk, K.A., Livet, M., Ward, C., Sorensen, T., Roth McClurg, M. “Assessing Fidelity through a Comprehensive Medication Management Self-Assessment Tool.” Encore poster presented for Continuing Education (CE) at American College of Clinical Pharmacy Update in Therapeutics Meeting. February 2018; Jacksonville, Florida.

18. Frail, C.K.*, **Blanchard, C.**, Livet, M., Ward, C., Sorensen, T.^, Roth McClurg, M. “Developing a Fidelity Assessment System for Comprehensive Medication Management Service.” Encore poster presented for Continuing Education (CE) at American College of Clinical Pharmacy Update in Therapeutics Meeting. February 2018; Jacksonville, Florida.
19. Livet, M.*, Sorge, L., **Blanchard, C.**^, Ward, C., Roth McClurg, M., Sorensen, T. “The role of improvement cycles in scaling up delivery of Comprehensive Medication Management (CMM) in primary care settings.” Encore poster presented for Continuing Education (CE) at American College of Clinical Pharmacy Update in Therapeutics Meeting. February 2018; Jacksonville, Florida.
20. **Blanchard, C.**^, Frail, C.K., Funk, K.A., Livet, M., Ward, C., Sorensen, T., Roth McClurg, M. “Assessing Fidelity through a Comprehensive Medication Management Self-Assessment Tool.” Poster presented at American College of Clinical Pharmacy Annual Meeting. October 2017; Phoenix, Arizona.
21. Frail, C.K.*^, **Blanchard, C.**, Livet, M., Ward, C., Sorensen, T., Roth McClurg, M. “Developing a Fidelity Assessment System for Comprehensive Medication Management Service.” Poster presented at American College of Clinical Pharmacy Annual Meeting. October 2017; Phoenix, Arizona.
22. Livet, M.*, Sorge, L., **Blanchard, C.**^, Ward, C., Roth McClurg, M., Sorensen, T. “The role of improvement cycles in scaling up delivery of Comprehensive Medication Management (CMM) in primary care settings.” Accepted for poster presentation at American College of Clinical Pharmacy Annual Meeting. October 2017; Phoenix, Arizona.
23. **Blanchard, C.**^, Ward, C., Sorensen, T., Roth McClurg, M. “Applying the Usable Innovation Framework to Identify Best Practices in Pharmacy.” Poster presented at the Global Implementation Conference. June 2017. Toronto, Canada.
24. **Blanchard, C.**^, Livet, M., Sorensen, T., Roth McClurg, M. “Advancing the Implementation of a Care Delivery Model: Application of the Active Implementation Frameworks.” Poster presented at the Global Implementation Conference. June 2017. Toronto, Canada.
25. Livet, M.*^, **Blanchard, C.**, Roth McClurg, M. “The role of PDSA cycles in scaling up an innovative pharmacy practice in complex health systems: lessons learned.” Poster presented at the Global Implementation Conference. June 2017. Toronto, Canada.
26. **Blanchard, C.**^, Arandia, G.†, Francis, A.†, Luecking, C.†, Kirk, A., Setty, K.†, Rabbani, R.† “The Implementation Science Student Group: A Cross-Disciplinary Organization.” Poster presented at Toward a Carolina Improvement Science Initiative: A Lightning Symposium. May 2017; Chapel Hill, North Carolina.
27. **Blanchard, C.**^, Ward, C., Sorensen, T., Carroll, J., Roth McClurg, M. “Advancing the Implementation of a Care Delivery Model: Application of the Active Implementation Frameworks.” Poster presented at the 9th Annual Conference on the Science of Dissemination and Implementation in Health. December 2016. Washington, DC.

28. **Blanchard, C.*[^]**, Steinbacher, D.[†], Ward, C., Sorensen, T., Roth McClurg, M. “Establishing a common language for comprehensive medication management: applying implementation science to the patient care process” Poster presented at American College of Clinical Pharmacy. October 2016; Hollywood, Florida.
29. **Martin, C.*[^]**, Mayer, C., Qiao, C., Yuan, L., Li, J., Li, J., Xiao, X. “HH67.2, a promising novel Adeno-Associated Virus (AAV) Vector, shows improved muscle specificity and infectivity compared to AAV9.” Poster presented at American Society of Gene and Cell Therapy’s 18th Annual Meeting. May 2015. New Orleans, LA.
30. **Martin, C.*[^]**, Kozak, CA. “Variants of the XPR1 Receptor for Mouse Xenotropic Gammaretroviruses and the Human XMRV Virus.” Poster presented at NIH Post-baccalaureate Research Festival. Bethesda, MD.

Book Chapters:

1. Thigpen, J., White, A., **Blanchard, C.** Interprofessional collaboration: transforming public health through team work. In: Covvey JR, Arya V, DiPietro Mager N, Gilman N, Herring M, Lukas S, Ochs L, Waddington L, eds. *Public health in pharmacy practice: a casebook*. 1st ed. Genesco, NY: Open SUNY Textbooks; 2020. Available at: <https://courses.lumenlearning.com/suny-public-health-in-pharmacy-practice/>.

INVITED PRESENTATIONS (^Presenting Author, †Student Author, ‡Postgraduate Trainee Author)

National:

1. **Blanchard, C.[^]**, Roth McClurg, M. “Lessons Learned to Achieve Medication Optimization Applying an Implementation Science Framework.” Invited Workshop Presentation at ACCP Update in Therapeutics Patient-Centered Team-Based Practice Forum. April 2019; St. Louis, Missouri.
2. **Blanchard, C.[^]**, Brummel, A.[^] “Integrating CMM into the Practice Workflow.” Invited Workshop Presentation at ACCP Update in Therapeutics Patient-Centered Team-Based Practice Forum. April 2019; St. Louis, Missouri.
3. Roth McClurg, M.[^], **Blanchard, C.[^]**, Frail, C.[^], Ekstrand, M.[^], McGivney, M.S.[^] “Applying a Common Language for CMM to Practice.” Invited Workshop Presentation at ACCP Update in Therapeutics Patient-Centered Team-Based Practice Forum. February 2018; Jacksonville, Florida.
4. Livet, M., **Blanchard, C.[^]** “Achieving Readiness for Implementation.” Invited Workshop Presentation at ACCP Update in Therapeutics Patient-Centered Team-Based Practice Forum. February 2018; Jacksonville, Florida.

5. **Blanchard, C.**[^], Wilson, C.[^], Livet, M. “Improvement Cycles as a Strategy to Accelerate Change.” Invited Workshop Presentation at ACCP Update in Therapeutics Patient-Centered Team-Based Practice Forum. February 2018; Jacksonville, Florida.
6. **Blanchard, C.**[^], Steinbacher, D., Ward, C., Sorensen, T., Roth McClurg, M. “Establishing a common language for comprehensive medication management: applying implementation science to the patient care process.” Podium Presentation at American College of Clinical Pharmacy. October 2016; Hollywood, Florida.

State/Local:

1. **Blanchard, C.**[^] “Implementation Science.” Atrium Health, Department of Learning and Organizational Development. May 2018; Charlotte, North Carolina. Sponsored by Merck.
2. **Blanchard, C.**[^], Ward, C.[^] “Your Implementation Journey.” Invited Facilitated Workshop Presentation at Implementation Science Summer Institute. June 2018; Chapel Hill, North Carolina.
3. Roth McClurg, M., **Blanchard, C.**[^], Ward, C. Livet, M. “Advancement of Comprehensive Medication Management in Primary Care through Active Implementation and Improvement Cycles.” Podium Presentation at Toward a Carolina Improvement Science Initiative: A Lightning Symposium. May 2017; Chapel Hill, North Carolina.

TEACHING EXPERIENCE

UNC Eshelman School of Pharmacy

Course Director:

Health Policy and Managed Care (PHCY 840), 21 students, 3 contact hours per week Spring 2019

Small Group Facilitator:

Pharmacotherapy Recitation – Dermatology Case (PHCY 443), 8 students, 2 contact hours Fall 2015

Lecturer:

Experimental Therapeutics (DPET 833), 16 students Fall 2019
“Implementation Science for Pharmacy Practice” (1 contact hour)
Evaluation Research and Project Design (PACE 815), 16 students Fall 2019
“Implementation Science for Pharmacy Practice” (2 contact hours)
Contemporary Communications in Healthcare (PHCY 124), 30 students, “Population Health” (1 contact hour) Spring 2019
Experimental Therapeutics (DPET 833), 24 students Fall 2018

“Implementation Science for Pharmacy Practice” (2 contact hours) Evaluation Research and Project Design (PACE 815), 10 students	Fall 2018
“Implementation Science for Pharmacy Practice” (2 contact hours) On Becoming a Pharmacists (PHCY 501), 152 students	Fall 2018
“Career Pathways: Academia” (1 contact hour) On Becoming a Pharmacists (PHCY 501), 152 students	Fall 2017
“Professional Development” (1 contact hour) On Becoming a Pharmacists (PHCY 501), 152 students	Fall 2017
“Time Management” (1 contact hour)	

Teaching Assistant:

Law and Ethics (PHCY 432), 160 students, 3 contact hours per week	Spring 2016
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Post-Graduate Research Mentorship Activity:

Faculty Advisor, Health System Pharmacy Administration Resident Title: Evaluating the Impact of Community Pharmacy Enhanced Services Network (CPESN) Collaboration with an Academic Medical Center.	Sept 2019 – Present
2019 – Present: Judith Lovince, PharmD Director of Health Policy Fellowship UNC Eshelman School of Pharmacy	May 2018 – Dec 2019
2018 – 2019: Amber Bivins Ray, PharmD, MPH	

PharmD Honors Student Research Faculty Advisor:

Akshara Kumar UNC Eshelman School of Pharmacy Title: The use of research evidence in developing pharmacists prescriptive authority. Completion Date: May 2020 (pending)	Spring 2019 – Present
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Kristen Wines UNC Eshelman School of Pharmacy Title: Development and Content Validation of an Organizational Capacity Tool for Comprehensive Medication Management in Primary Care. Completion Date: May 2018	Spring 2017 – Spring 2018
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Jimmy Xu UNC Eshelman School of Pharmacy Title: Development and Content Validation of a Patient Responsiveness Survey for Comprehensive Medication Management in a Primary Care Setting. Completion Date: May 2018	Spring 2017 – Spring 2018
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High School Student Research Advisor (Young Innovator Program)

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|---|-----------------------|
| Halle Kahlenberg | June 2019 – July 2019 |
| Title: Social Determinants of Health and Medication Adherence | |
| Emily Ruiz Escobar | June 2018 – July 2018 |
| Title: Improving Healthcare Access in Rural Communities: How Can Telepharmacy Services Address Barriers to Medication Access? | |

PROFESSIONAL SERVICE

National:

American College of Clinical Pharmacy

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| • Member | 2016 – Present |
| • Appointed, Implementation Science Task Force | 2018 – 2019 |
| • Member, Ambulatory Care PRN | 2016 – Present |

American Association of Colleges of Pharmacy

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| • Member | 2014 – Present |
| • Member, Public Health Special Interest Group | 2016 – Present |
| • Review, Walmart Scholar Applications | 2017 – 2018 |

AcademyHealth

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| • Member | 2016 – Present |
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Society for Implementation Research Collaboration

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| • Member | 2019 – Present |
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American Society of Health-System Pharmacists

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| • Member | 2014 – Present |
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American Pharmacists Association

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| • Member | 2012 – 2017 |
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State:

North Carolina Association Pharmacists

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| • Member | 2012 – 2018 |
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Institution:

University of North Carolina at Chapel Hill

Faculty Advisor, Implementation Science Student Group	2018 – Present
Affiliate Member, National Implementation Research Network	2018 – Present
Member, Applied Implementation Science Certificate Planning Committee	2017 – Present

UNC Eshelman School of Pharmacy

Member, Partnership in Patient Care – Research Committee	2019 – Present
Faculty Advisor, Incoming Students	2018 – Present
Member, Curricular Innovation Committee	2018 – 2019
Faculty Interviewer, PharmD Admissions	2016 – Present
Faculty Volunteer, Student Health Action Coalition (SHAC) clinic	2016 – Present
Member, Curriculum Design and Execution Steering Committee	2015 – 2016
Member, Faculty Governance Document Revision Committee	2014 – 2015
Member, Renovation and Planning Committee	2014 – 2015
Member, Curricular Transformation Steering Committee	2012 – 2015

Other Professional Service Activities:

Journal Reviewer

The American Journal of Accountable Care	2019
BMC Health Services Research	2019
Research in Social and Administrative Pharmacy	2018

LICENSURE AND CERTIFICATIONS

Basic Certificate in Quality and Safety Institute for Healthcare Improvement	2016
Lean Six Sigma Yellow Belt Certification Department of Operational Efficiency – UNC Health Care	2016
North Carolina Board of Pharmacy License Number: 26286	2016 – Present
Health Care Provider Basic Life Support (BLS) and Automated External Defibrillator (AED) American Heart Association (AHA)	2013 – Present
Pharmacy-Based Immunization Delivery Certification American Pharmacists Association	2013 – Present