
Meghan J. Arwood, PharmD, MS, BCPS

CURRICULUM VITAE

October 2019

CONTACT INFORMATION

Office Address: Department of Pharmacotherapy and Translational Research
University of Florida, College of Pharmacy
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EDUCATION

2014 – 2018 **Master of Science – Clinical and Translational Science**
University of Illinois at Chicago, School of Public Health, Chicago, IL

2009 – 2013 **Doctor of Pharmacy**
University of Florida, College of Pharmacy, Gainesville, FL
Graduated magna cum laude

2006 – 2009 **Bachelor of Science – Food Science and Human Nutrition**
University of Florida, College of Agricultural and Life Sciences, Gainesville, FL
Graduated cum laude

POSTDOCTORAL TRAINING

2014 – 2016 **Translational Pharmacogenomics Fellowship**
University of Illinois at Chicago, College of Pharmacy, Chicago, IL
University of Florida, College of Pharmacy, Gainesville, FL
Program Director: Julio Duarte, PharmD, PhD

2016 **Computational Genomics Training**
Community Research Education and Engagement for Data Science (NIH BD2K)
Icahn School of Medicine at Mount Sinai, New York, NY
Program Directors: Patricia Kovatch, BS, Andrew Sharp, PhD, Luz Claudio, PhD

2013 – 2014 **PGY1 Pharmacy Practice Residency, ASHP Accredited**
Holmes Regional Medical Center, Melbourne, FL
Program Director: Carlette Norwood-Williams, PharmD
Program Coordinator: Jessica Dabady, PharmD

LICENSURE AND CERTIFICATION

Licensure: Illinois License No. 051.297966 (Issued 2014)
Florida License No. PS50521 (Issued 2013)

Board Certification: Board Certified Pharmacotherapy Specialist (BCPS) No. 3153304 (Issued 2016)

PROFESSIONAL APPOINTMENTS

01/2017 – Present **Clinical Assistant Professor**
Center for Pharmacogenomics, Department of Pharmacotherapy & Translational Research, College of Pharmacy, University of Florida, Gainesville, FL

PROFESSIONAL EXPERIENCE

09/2017 – Present	Lead Clinical Pharmacogenetics Specialist Pharmacogenetics Consultation Service UF Health Internal Medicine at Tower Hill Clinic, Gainesville, FL
04/2015 – 12/2015	Clinical Pharmacist Cardiology Clinic, Outpatient Care Center University of Illinois Hospital and Health Sciences System, Chicago, IL
07/2014 – 12/2015	Clinical Pharmacist Personalized Medicine Program (PMP) University of Illinois Hospital and Health Sciences System, Chicago, IL
07/2014 – 12/2015	Clinical Instructor University of Illinois at Chicago College of Pharmacy, Chicago, IL
07/2013 – 06/2014	Staff Pharmacist Holmes Regional Medical Center, Melbourne, FL
05/2010 – 07/2010	Pharmacist Intern Walgreens Pharmacy, Lutz, FL
10/2005 – 08/2007	Pharmacy Technician Rx Express Pharmacy, Lutz, FL

PGY1 PHARMACY PRACTICE RESIDENCY LEARNING EXPERIENCES

<u>Rotations</u>	<u>Preceptors</u>
Anticoagulation	Ted Heierman, PharmD, CPh
Clinical Pharmacy Practice	Jessica Dabady, PharmD
Advanced Infectious Disease	Heather McCormick, PharmD, BCPS
Medication Safety	Jaclyn Jeffries, PharmD
Pharmacy Informatics	Marta Hamilton, PharmD, John Voorhies, PharmD
Research	Jessica Dabady, PharmD
Critical Care I and II	Kimberly Hunger, PharmD, BCPS
Infectious Disease	Stacey Baggett, PharmD, BCPS
Internal Medicine I and II	Stacey Baggett, PharmD, BCPS, Katherine Imhof, PharmD
Ambulatory Care	Norman Tomaka, M.S. Pharm, CPh, Ted Heierman, PharmD, CPh
Hospital Pharmacy 101	Jason Perry, PharmD

CLINICAL SERVICE DEVELOPMENT

Co-founder, Pharmacogenetics Consultation Service (PGx-CS), 01/2017 – Present

Participated in the design and am leading the implementation of this novel service. The PGx-CS is a pilot consult service that is a joint effort of the UF College of Pharmacy and UF Health Internal Medicine Clinic at Tower Hill. In this standalone outpatient clinic, as the lead Clinical Pharmacogenetics Specialist, I provide primary care providers with detailed, customized drug therapy plans for their referred patients based on pharmacogenetic test results. Furthermore, I educate patients on pharmacogenetics and their pharmacogenetic test results.

Aims: (1) implement a novel pharmacogenetics consult service, (2) assess the feasibility of the service, (3) evaluate the clinical usefulness of the service, and (4) evaluate patients' attitudes, beliefs, and satisfaction with the service.

RESEARCH EXPERIENCE

07/2019 – Present	Clinical Pharmacogenetics Pharmacist <i>Sparkling Advancements in Genomic Medicine – Genetic testing to Understand and Address Renal Disease Disparities across the US (GUARDD-US)</i> UF Health Personalized Medicine Program, Gainesville, FL <u>Principal Investigator:</u> Rhonda Cooper-DeHoff, PharmD, MS
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- 06/2019 – Present **Co-investigator**
Assessment of algorithmic techniques and methodologies to identify patients at high risk for gene-based adverse drug outcomes in the University of Florida GatorCare health insurance network
UF Health Personalized Medicine Program, Gainesville, FL
Principal Investigator: Rhonda Cooper-DeHoff, PharmD, MS
- 08/2017 – Present **Principal Investigator**
Pharmacogenetics Consultation Service: Patient Attitudes and Beliefs Surveys
UF Health Personalized Medicine Program, Gainesville, FL
- 01/2017 – Present **Co-investigator**
UF Health Personalized Medicine Program Implementation Data-CYP2C19, TPMT, IL28B, CYP2D6
UF Health Personalized Medicine Program, Gainesville, FL
Principal Investigator: Kristin Weitzel, PharmD
- 01/2017 – Present **Co-investigator**
Genomic Medicine Implementation: The Personalized Medicine Program: Education Protocol
UF Health Personalized Medicine Program, Gainesville, FL
Principal Investigator: Kristin Weitzel, PharmD
- 04/2016 – 03/2017,
08/2014 – 12/2015 **Co-investigator**
Improving Treatment Personalization of Pulmonary Hypertension Associated with Diastolic Heart Failure Study
Department of Pharmacotherapy and Translational Research
University of Florida, College of Pharmacy, Gainesville, FL
Investigators: Julio Duarte, PharmD, PhD, Hassan Alnuaimat, MD, Ali Ataya, MD
Department of Pharmacy Practice
University of Illinois at Chicago, College of Pharmacy, Chicago, IL
Investigators: Julio Duarte, PharmD, PhD, Roberto Machado, MD, Christopher Gans, MD
Responsibilities: Recruited and consented patients, coordinated study visits, and performed data collection.
- 01/2015 – 12/2015 **Co-investigator**
DNA Collection in Healthy Subjects
Department of Pharmacy Practice
University of Illinois at Chicago, College of Pharmacy, Chicago, IL
Responsibilities: Wrote study protocol, recruited and consented patients, trained research assistants, and performed data collection.
Investigators: Julio Duarte, PharmD, PhD, Roberto Machado, MD
- 08/2014 – 12/2015 **Co-investigator**
Genetic Determinants of Drug Response in Heart Failure Study
Department of Pharmacy Practice
University of Illinois at Chicago, College of Pharmacy, Chicago, IL
Responsibilities: Recruited and consented patients, coordinated study visits, processed blood samples, trained research assistants, performed data collection, submitted protocol amendments to the Institutional Review Board (IRB), performed Continuing Review mandated by the IRB, and performed data analysis.
Investigators: Julio Duarte, PharmD, PhD, Thomas Stamos, MD, Christopher Gans, MD

- 10/2012 – 11/2012 **Research Assistant**
Clarification of Optimal Anticoagulation through Genetics (COAG) Trial
Department of Pharmacotherapy and Translational Research
University of Florida, College of Pharmacy, Gainesville, FL
Responsibilities: Recruited and consented patients.
Advisors: Rhonda Cooper-DeHoff, PharmD, MS, Julie Johnson, PharmD, BCPS
- 05/2011 – 12/2011 **Co-investigator**
Pharmacogenomic Evaluation of Antihypertensive Responses (PEAR) Follow-up Trial
Department of Pharmacotherapy and Translational Research
University of Florida, College of Pharmacy, Gainesville, FL
Responsibilities: Genotyped two single nucleotide polymorphisms hypothesized to have an association with new onset Type 2 Diabetes, recruited and consented patients for the PEAR Follow-up trial, and wrote a primary research manuscript to graduate with honors: "TCF7L2 Polymorphisms and New Onset Diabetes within an INVEST Case Control: A Focus on SNPs in Those with African and Hispanic Ancestry."
Advisor: Rhonda Cooper-DeHoff, PharmD, MS

PUBLICATIONS

Refereed

1. Orlando LA, Voils C, Horowitz CR, Myers RA, **Arwood MJ**, Cicali EJ, McDonough CW, Pollin TI, Guan Y, Levy KD, Ramirez A, Quittner A, Madden EB. IGNITE network: Response of patients to genomic medicine interventions. *Mol Genet Genomic Med*. 2019 May;7(5):e636.
2. Duarte JD, Kansal M, Desai AA, Riden K, **Arwood MJ**, Yacob AA, Stamos TD, Cavallari LH, Zamanian RT, Shah SJ, Machado RF. Endothelial nitric oxide synthase genotype is associated with pulmonary hypertension severity in left heart failure patients. *Pulm Circ*. 2018 Apr-Jun;8(2):2045894018773049.
3. Singh S, McDonough CW, Gong Y, Alghamdi WA, **Arwood MJ**, Bargal SA, Dumeny L, Li WY, Mehanna M, Stockard B, Yang G, de Oliveira FA, Fredette NC, Shahin MH, Bailey KR, Beitelshes AL, Boerwinkle E, Chapman AB, Gums JG, Turner ST, Cooper-DeHoff RM, Johnson JA. Genome Wide Association Study Identifies the HMGCS2 Locus to be Associated With Chlorthalidone Induced Glucose Increase in Hypertensive Patients. *J Am Heart Assoc*. 2018 Mar 9;7(6).
4. Mangal N, Hamadeh IS, **Arwood MJ**, Cavallari LH, Samant TS, Klinker KP, Bulitta J, Schmidt S. Optimization of Voriconazole Therapy for the Treatment of Invasive Fungal Infections in Adults. *Clin Pharmacol Ther*. 2018 Jan 9. [Epub ahead of print]
5. **Arwood MJ**, Deng J, Drozda K, Pugach O, Nutescu EA, Schmidt S, Duarte JD, Cavallari LH. Anticoagulation endpoints with clinical implementation of warfarin pharmacogenetic dosing in a real-world setting: A proposal for a new pharmacogenetic dosing approach. *Clin Pharmacol Ther*. 2017 May;101(5):675-683.
6. **Arwood MJ***, Chumnumwat S*, Cavallari LH, Nutescu EA, Duarte JD. Implementing Pharmacogenomics at Your Institution: Establishment and Overcoming Implementation Challenges. *Clin Transl Sci*. 2016 May 23. [Epub ahead of print] *Contributed equally to this work
7. **Arwood MJ**, Cavallari LH, Duarte JD. Pharmacogenomics of hypertension and heart disease. *Curr Hypertens Rep*. 2015 Sep;17(9):586.
8. Karnes JH, Gong Y, **Arwood MJ**, Gums JG, Hall K, Limacher MC, Johnson JA, Cooper-DeHoff RM. Alteration in fasting glucose after prolonged treatment with a thiazide diuretic. *Diabetes Res Clin Pract*. 2014 Jun; 104(3):363-9.
9. Karnes JH, Gong Y, Pacanowski MA, McDonough CW, **Arwood MJ**, Langaee TY, Pepine CJ, Johnson JA, Cooper-DeHoff RM. Impact of TCF7L2 single nucleotide polymorphisms on hydrochlorothiazide- induced diabetes. *Pharmacogenet Genomics*. 2013 Dec; 23(12):697-705.

Non-Refereed

1. **Arwood MJ***, Cicali EJ*, Melloy K*, Schuh M*. FSHP Position Statement: Clinical Pharmacogenomics. 2019. *contributed equally
2. **Arwood MJ**. Medication Management: MTM Optimizes Therapeutic Outcomes. *Space Coast Medicine & Active Living*. Oct/Nov 2013; 164-165. Print.

ABSTRACTS AND SCIENTIFIC PRESENTATIONS

National

1. **Arwood MJ**, Melloy K, Singh D, Duong BQ, Smith DM, Dietrich EA, Johnson JA, Gums JG. Patient Perceptions about Pharmacogenetic Testing within a Primary Care Setting. Poster presentation at the 2019 CPIC Meeting. Memphis, TN. June 6, 2019.
2. Melloy K, Duong BQ, Smith DM, Dietrich EA, **Arwood MJ**. Patient Attitudes and Beliefs about Pharmacogenetics Consult Clinic in a Primary Care Setting. Poster presentation at the University of Florida Precision Medicine Conference. Orlando, FL. March 7, 2019.
3. **Arwood MJ**, Dietrich EA, Duong BQ, Smith DM, Rosenberg EI, Huber KN, Nagoshi YL, Wright A, Budd JT, Elsey AR, Cavallari LH, Weitzel KW, Johnson JA, Gums JG. Implementation of a pharmacist-led pharmacogenetics consult clinic in a primary care setting (#512). *J Am Coll Clin Pharm*. 1: 122-353. Invited oral Scientific Platform presentation and poster presentation at the 2018 ACCP Global Conference on Clinical Pharmacy. Seattle, WA. October 22, 2018.
4. Duong BQ, **Arwood MJ**, Hicks JK, Beitelshes AL, Elsey AR, Franchi F, Limdi NA, Mills AE, Owusu-Obeng A, Petry N, Tuteja S, Cavallari LH, Weitzel KW, on behalf of the IGNITE Network. Development of implementation guides to support clinical adoption of genomic medicine: Experiences of the implementing genomics in practice (IGNITE) network. Poster presentation at the American College of Medical Genetics (ACMG) 2018 Annual Meeting. Charlotte, NC. April 13, 2018.
5. **Arwood MJ**, McDonough CW, Cavallari LH, Elsey AR, Frye RF, Gong Y, Langaee T, Johnson JA, Weitzel KW. Preparing students for implementation of genomics: Comparison of teaching and learning strategies to develop clinical decision making skills in pharmacogenomics patient cases. Poster and oral presentation at the Association of Professors of Human and Medical Genetics (APHMG) 23rd Annual Workshop & Special Interest Groups Meetings. Clearwater Beach, FL. May 9, 2017.
6. **Arwood MJ**, McDonough CW, Cavallari LH, Elsey AR, Frye RF, Gong Y, Langaee T, Johnson JA, Weitzel KW. Equipping health professional students to apply pharmacogenomic data to clinical decision making in real-world scenarios: Comparison of an active engagement versus didactic teaching approach. Poster presentation at the Translational Science 2017 Annual Meeting. Washington DC. April 20 2017.
7. **Arwood MJ**, Deng J, Drozda K, Nutescu EA, Schmidt S, Duarte JD, Cavallari LH. Clinical implementation of warfarin pharmacogenetics in a real-world setting: a proposal for a new pharmacogenetic dosing approach for diverse patient populations. *Clin Pharmacol Ther*. 2017;101(S1):S5. (#PT-002). Poster presentation at the 2017 American Society for Clinical Pharmacology and Therapeutics (ASCPT) Annual Meeting. Washington DC. March 15, 2017. ***Winner of Presidential Trainee Award.**
8. Singh S, Alghamdi W, **Arwood MJ**, Bargal SA, de Oliveira F, Dumeny L, Wen-Yi L, Mehanna M, Stockard B, Yang G, Fredette N, Shahin M, Bailey KR, Beitelshes AL, Boerwinkle E, Chapman AB, Gums JG, Turner ST, Gong Y, McDonough CW, Cooper-DeHoff RM, Johnson JA. A Genome Wide Association Study Identifies Pharmacogenomic Variants Associated with Chlorthalidone Induced Glucose Change in African Americans. *Clin Pharmacol Ther*. 2017;101(S1):S9. (#PT-019). Poster presentation at the 2017 American Society for Clinical Pharmacology and Therapeutics (ASCPT) Annual Meeting. Washington DC. March 15, 2017. ***Winner of Presidential Trainee Award.**
9. Duarte JD, **Arwood MJ**, Liko I, Mansour I, Nair V, Kansal M, Stamos T, Cavallari LH, Desai AA. Beta-blocker dose stratifies both mortality risk and circulating procollagen levels in African Americans with heart failure. *Circulation*. 2016;134:A11877. Poster presentation at the American Heart Association (AHA) Scientific Sessions. New Orleans, LA. November 15, 2016.

10. Deng J, **Arwood MJ**, Duarte JD, Cavallari LH, Schmidt S. Development of a universal pharmacogenetics-guided warfarin dosing nomogram. Poster presentation at the American Conference on Pharmacometrics (ACoP) Annual Meeting. Arlington, VA. October 24, 2016.
11. **Arwood MJ**, Heierman T, Gilbert S, Dabady J. Ventilator-associated pneumonia in trauma patients: gasping for answers about contributing risk factors and the efficacy of the ventilator bundle. Poster Presentation at the American Society of Health-System Pharmacists (ASHP) 2013 Midyear Clinical Meeting. Orlando, FL. December 2013.

PRESENTATIONS

Invited

National

1. "APhA-APRS ESAS Colleagues in Research: Getting Personal: The Impact of Pharmacogenomics on Patient Care." Continuing Education Presentation at the APhA 2019 Annual Meeting & Exposition. Seattle, WA. Mar 23, 2019.
2. "Emerging Practice Models in Pharmacogenomics: UF Health Pharmacogenetics Consult Clinic." Continuing Education Presentation at the University of Florida Precision Medicine Conference. Orlando, FL. Mar 8, 2019.
3. "Integrating Clinical Pharmacogenetics into Primary Care: Initial Experiences from the University of Florida." IGNITE Clinical Informatics Webinar Series. May 3, 2018.
4. "Innovative Practice Models for Incorporating Precision Medicine into Primary Care: Making it Work." Continuing Education Presentation at the University of Florida Precision Medicine Conference. Orlando, FL. March 9, 2018.
5. "Taking a Novel Approach: Update on Innovations in Pharmacogenetics Education." Continuing Education Presentation at the University of Florida Precision Medicine Conference. Orlando, FL. March 9, 2017. (Co-author to Kristin Weitzel, PharmD)
6. "Advancing Clinical Implementation of Pharmacogenetics: Progress, Needs, and Opportunities." Continuing Education Presentation at the University of Florida Precision Medicine Conference. Orlando, FL. March 8, 2017. (Co-author to Kristin Weitzel, PharmD)

Regional

1. "Pharmacogenomics in action!" Keynote Presentation at the Inaugural DNA Day at Manchester University College of Pharmacy. Fort Wayne, IN. Apr 25, 2019.

Local

1. "Pharmacogenomics in the Clinic: Experience at the University of Florida." Continuing Education Presentation at the North Central Florida Regional Society meeting of the Florida Society of Health-System Pharmacists (FSHP). Gainesville, FL. August 27, 2019.
2. "UF Health Pharmacogenetics Consult Clinic." Presentation to the UF Precision Medicine certificate program (PharmD) students. Gainesville, FL. Apr 15, 2019.
3. "Innovative Teaching Approach: Clinical Application of Pharmacogenetics." Dean's Leadership Council Meeting. Orlando, Florida. November 30, 2018.
4. "Pharm Talks: Overview of the UF Health Pharmacogenetics Consult Clinic." Presentation at the University of Florida College of Pharmacy faculty mixer. Gainesville, FL. Oct 2, 2018.
5. "Integrating Pharmacogenetics Into Primary Care: Implementation of a Pharmacist-Led, Referral-Based Pharmacogenetics Consult Clinic." Continuing Education Presentation at the University of Florida Primary Care Innovations Conference. Gainesville, FL. April 28, 2018.
6. "Translational Pharmacogenomics." Presentation to the Student Industry Pharmacists Organization (IPhO). Gainesville, FL. March 26, 2018.

7. "Clinical Pharmacogenetics." SHPEP Student Presentation. Gainesville, FL. June 20, 2017.
8. "Translational Pharmacogenomics: Opportunities, Experience, & Implementation." Presentation to the Student Personalized Medicine Coalition. Gainesville, FL (broadcast to Orlando, FL). Apr 6, 2017.

Local

1. "UF Health PGx Consult Clinic: What do we do?" SHPEP student presentation. Gainesville, FL. Jun 12, 2019.
2. "Pharmacogenetics." Noon resident conference: Internal Medicine. Gainesville, FL. Feb 5, 2019.
3. "Pharmacogenetics Consult Clinic." SHPEP student presentation. Gainesville, FL. Jun 11, 2018.
4. "Patient case presentation: PPI patient with lack of efficacy." UF Center for Pharmacogenomics. Gainesville, FL. May 31, 2018.
5. "Translational Pharmacogenomics: Research and Clinical Practice." Clinical Pharmacogenomics Faculty Candidate Seminar at the Department of Pharmacotherapy and Translational Research, University of Florida, College of Pharmacy. Gainesville, FL. June 8, 2016.
6. "Genome-wide analysis to identify novel treatment targets for pulmonary hypertension in heart failure patients." MS Thesis Project Proposal Defense at the University of Illinois at Chicago, School of Public Health. Chicago, IL. June 2015.
7. "Ventilator-associated pneumonia in trauma patients: gasping for answers about contributing risk factors and the efficacy of the ventilator bundle." PowerPoint presentation at the Florida Society of Health-System Pharmacists (FSHP) Florida Residency Conference. Gainesville, FL. May 2014.
8. "The approach to reversing anticoagulation in intracerebral hemorrhages." Continuing Education Presentation at the 3rd Annual Pharmacy Practice Update & Residency Forum. Palm Beach Atlantic University, Gregory School of Pharmacy. West Palm Beach, FL. January 2014.
9. "Conversions between Anticoagulants and the Approach to Their Reversal." Continuing Education Presentation at the Treasure Coast Society of Health-System Pharmacists' meeting. Melbourne, FL. September 2013.

AWARDS AND HONORS

09/2019	Featured Member, Florida Society of Health-System Pharmacists, Dedication and contributions to North Central Florida Regional Society
03/2017	2017 American Society for Clinical Pharmacology and Therapeutics Presidential Trainee Award
04/2013	2013 Merck Award for Outstanding Research
03/2011	F. Peter Field Scholarship, Kappa Psi Pharmaceutical Society, Inc.
05/2008	Elected into Golden Key International Honour Society
08/2006 – 05/2010	Florida Bright Futures: Florida Academic Scholars Award
05/2006	International Baccalaureate Certificate

PROFESSIONAL AFFILIATIONS

American Society of Human Genetics (ASHG)	2017 – Present
Clinical Pharmacogenetics Implementation Consortium (CPIC)	2017 – Present
Florida Pharmacy Association (FPA)	2017
American Society for Clinical Pharmacology and Therapeutics (ASCPT)	2014 – Present
Pharmacogenomics Research Network (PGRN)	2014 – Present
American Heart Association (AHA)	2014 – 2018
Florida Society of Health-System Pharmacists (FSHP)	2013 – 2014, 2017 – Present
American Society of Health-System Pharmacists (ASHP)	2012 – 2013, 2017 – Present
American College of Clinical Pharmacy (ACCP)	2011 – 2012, 2015 – Present
Kappa Psi Pharmaceutical Fraternity, Inc (KΨ)	2009 – Present

SERVICE

Professional Service

American Society for Clinical Pharmacology and Therapeutics (ASCPT)

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|-------------------|--|
| 03/2020 | Vice Chair, Pharmacogenomics Community |
| 04/2019 – Present | Chair, 2020 ASCPT Pharmacogenomics Community Programming Committee <ul style="list-style-type: none">Submitted proposal for 2020 ASCPT Annual Meeting, which was accepted; titled <i>Current Landscape of Precision Medicine Clinics: Approaches from Various Practitioners to Improve the Fit of those</i><i>Genes!</i> (tentative session date: 3/21/2020) |
| 04/2018 – 03/2019 | Member, 2019 ASCPT Pharmacogenomics Community Programming Committee <ul style="list-style-type: none">Submitted proposal for 2019 ASCPT Annual Meeting, which was selected for ASCPT-wide webinar: <i>From a Genotype to Multiple Phenotypes: Drug-Induced and Disease-Induced Phenoconversion</i> (presented by Drs. Jacques Turgeon and Veronique Michaud in 4/2019) |
| 08/2015 – 06/2017 | Member, Social Media Task Force |

American College of Clinical Pharmacy (ACCP)

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| 11/2017 – 10/2018 | Member, 2018 ACCP Pharmacokinetics/Pharmacodynamics/ Pharmacogenetics Practice and Research Networks (PRN) Focus Session Planning Committee |
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Implementing Genomics in Practice (IGNITE) I and II

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| 07/2019 – Present | Member, Data Harmonization Working Group |
| 06/2019 – Present | Member, CDS Process/Content Working Group |
| 02/2017 – Present | Member, Common Measures Group |

Kappa Psi Pharmaceutical Fraternity, Inc (KΨ)

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|-------------------|---|
| 11/2012 – 11/2013 | Member, Southeast Province KΨ Political Action Committee |
| 08/2011 – 04/2012 | Chair, Gamma Sigma KΨ Golf Tournament |
| 02/2011 – 02/2012 | Vice Regent, Gamma Sigma KΨ Pharmaceutical Fraternity |
| 01/2011 – 01/2012 | Assistant Webmaster, Province IV KΨ Pharmaceutical Fraternity |
| 01/2011 – 01/2012 | Member, Province IV KΨ Publications Committee |
| 02/2010 – 02/2011 | Historian, Gamma Sigma KΨ Pharmaceutical Fraternity |
| 01/2010 – 01/2011 | Member, Province IV KΨ Risk Management Committee |

National Human Genome Research Institute (NHGRI)

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| 06/2017 | Subject Matter Expert |
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Manuscript/Article Review:

Clinical Therapeutics (09/2019, 08/2019, 07/2019), *Journal of the American Pharmacists Association* (08/2018), *Pharmacotherapy* (05/2018, 12/2015), *Pharmacist's Letter* (04/2018), *Cardiovascular Therapeutics* (11/2017), *Currents in Pharmacy Teaching and Learning* (08/2017), *Future Medicine* (08/2015)

University Service

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|----------------|--|
| 2019 – Present | Pathways to Career Advancement Task Force, College of Pharmacy, University of FL |
| 2019 | Reviewed Prosper grant |
| 2017 – 2019 | Recruited PGY2 resident (Kelsey Melloy) and Clinical Fellow (Amanda Elchynski) |
| 2018 – Present | Curriculum Committee, College of Pharmacy, University of Florida |
| 2018 – Present | Scholarship and Awards Committee, College of Pharmacy, University of Florida |
| 2018 | Faculty Search Committee, College of Pharmacy, University of Florida |

TEACHING EXPERIENCE

Didactic Teaching

PHA5040: Pharmacogenomic Literature Assessment, University of Florida

Course Coordinator and Lecturer

- Spring 2019
 - Lecture: PGx Literature Assessment Course Overview

- Lecture: *PGx Primer*
- Lecture: *PGx Research*
- Lecture: *JC Format: Approaches and Considerations in PGx Research*
- Lecture: *PGx Article Selection and Presentation FAQ for Active Learning Session*
 - Conducted 4 Active Learning sessions
 - Wrote quiz and test questions
 - Graded assignments and final exam

PHA5012: Clinical Applications of Personalized Medicine, University of Florida
Course Co-coordinator and Lecturer

- Spring 2019
 - Lecture: *Beyond the CPIC Guidelines: Emerging Gene-Drug Pairs and Clinical Implementation*
 - Lecture: *Psychiatry Pharmacogenetics: SSRIs, TCAs, atomoxetine*
 - Conducted 1 Active Learning session
 - Wrote quiz and test questions, assignments, patient cases
 - Graded assignments
- Spring 2018
 - Lecture: *Beyond the CPIC Guidelines: Emerging Gene-Drug Pairs and Clinical Implementation*
 - Lecture: *Clinical Laboratory Testing in Pharmacogenetics*
 - Conducted 6 Active Learning sessions
 - Wrote quiz and test questions, assignments, patient cases
 - Graded assignments
- Spring 2017
 - Lecture: *Beyond the CPIC Guidelines: Emerging Gene-Drug Pairs and Clinical Implementation*
 - Conducted 4 Active Learning sessions
 - Wrote quiz and test questions, assignments, patient cases
 - Graded assignments

PHA5166L: Professional Skills Lab VI, University of Florida
Module Leader and Lecturer

- Spring 2019
 - Module: Pharmacogenomics
 - Lecture: PGx cases: Patient Interview
 - Wrote one clinical pharmacogenomics case and accompanying facilitator guide
 - Built the case in EHRGo
 - Led 3 skill labs at the Lake Nona campus

PHA6134: Foundations in Precision Medicine: Genomic Technologies, University of Florida
Module Leader and Lecturer

- Fall 2018
 - Module: Big Data
 - Lecture: *Overview: Bioinformatic approaches to the analysis of genomic data*
 - Lecture: *Challenges with handling and storing genetic and genomic data*
 - Wrote quiz, assignment, and discussion board assignment

PHA5933: Clinical Applications of Personalized Medicine, University of Florida
Lecturer

- Fall 2016
 - Lecture: Clinical Laboratory Testing in Pharmacogenetics

Experiential Teaching

APPE – Personalized Medicine – Pharmacy Students, University of Florida

2019 – 2020: Joshua Russell, PharmD Candidate 2020
Shaun Blalack, PharmD Candidate 2020
Jaehyeok Roh, PharmD Candidate 2020
M. Alex Diz, PharmD Candidate 2019

Natalie Ponce, PharmD Candidate 2020
2018 – 2019: A. Kate Ragan, PharmD Candidate 2019
James Winslow, PharmD Candidate 2019
2017 – 2018: Cherilyn Capasso, PharmD Candidate 2018

PREVIOUS AND CURRENT TRAINEES

Clinical Trainees – University of Florida, College of Pharmacy, Gainesville, FL

07/2019 – Present	Amanda Elchynski, PharmD, Clinical Pharmacogenetics Fellow
07/2018 – 06/2019	Kelsey Melloy, PharmD, PGY2 Pharmacogenetics Resident
07/2017 – 06/2018	Benjamin Duong, PharmD, PGY2 Pharmacogenetics Resident
01/2016 – 06/2018	D. Max Smith, PharmD, BCPS, PGY2 Pharmacogenetics Resident and Pharmacogenetics Fellow

Research Trainees – University of Florida, College of Pharmacy, Gainesville, FL

08/2019 – Present	Yael Marks, PharmD Candidate 2021
06/2017 – 08/2017	Hanna Harper, PharmD Candidate 2020
05/2016 – 08/2016	Justin Immerman, PharmD Candidate 2018

Research Trainees – University of Illinois at Chicago, College of Pharmacy, Chicago, IL

08/2015 – 12/2015	Candice Bundzinski, PharmD Candidate 2019
07/2014 – 12/2015	Ina Liko, PharmD Candidate 2017
05/2015 – 08/2015	Anesia Reticker, PharmD Candidate 2018
05/2015 – 08/2015	Patrick Prunty, PharmD Candidate 2018
01/2015 – 04/2015	Lorena Berrios, PharmD Candidate 2018
01/2015 – 04/2015	Paula Bielnicka, PharmD Candidate 2018
01/2015 – 04/2015	Ali Alobaidi, PharmD Candidate 2018