

# MEGHAN J ARWOOD, PHARM.D., BCPS

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## EDUCATION AND TRAINING

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Postdoctoral Fellowship in Translational Pharmacogenomics University of Florida College of Pharmacy <u>Mentor</u> : Julio Duarte, Pharm.D., Ph.D.	Dec 2015 – Dec 2016 Gainesville, FL
Master of Science – Clinical and Translational Science University of Illinois at Chicago School of Public Health, <i>Degree in progress</i>	Aug 2014 – Present Chicago, IL
Participant – Summer School for Computational Genomics Community Research Education and Engagement for Data Science (NIH BD2K award) Icahn School of Medicine at Mount Sinai	June 2016 New York, NY
Postdoctoral Fellowship in Translational Pharmacogenomics, Clinical Instructor University of Illinois at Chicago College of Pharmacy <u>Mentor</u> : Julio Duarte, Pharm.D., Ph.D.	Jul 2014 – Dec 2015 Chicago, IL
Postgraduate Year One (PGY-1) Pharmacy Practice Residency Holmes Regional Medical Center <u>Residency Program Director</u> : Carlette Norwood-Williams, Pharm.D. <u>Residency Program Coordinator</u> : Jessica Dabady, Pharm.D.	Jul 2013 – Jun 2014 Melbourne, FL
Doctor of Pharmacy University of Florida College of Pharmacy Graduated <i>magna cum laude</i>	May 2013 2009 – 2013 Gainesville, FL
Bachelor of Science – Food Science and Human Nutrition University of Florida College of Agricultural and Life Sciences Specialization in Nutritional Sciences Graduated <i>cum laude</i>	May 2010 2006 – 2009 Gainesville, FL

## PROFESSIONAL EXPERIENCE

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Clinical Pharmacogenetics Specialist Pharmacogenetics Consultation Service Internal Medicine at Tower Hill Clinic UF Health Personalized Medicine Program	Sep 2017 – Present Gainesville, FL
Subject Matter Expert for National Human Genome Research Institute (NHGRI) projects	Jun 2017 – Present
Clinical Assistant Professor Center for Pharmacogenomics Department of Pharmacotherapy and Translational Research University of Florida College of Pharmacy	Jan 2017 – Present Gainesville, FL
Clinical Pharmacist Cardiology Clinic, Outpatient Care Center University of Illinois Hospital and Health Sciences System <u>Mentors</u> : Julio Duarte, Pharm.D., Ph.D. Amer Ardati, M.D., M.S.	Apr 2015 – Dec 2015 Chicago, IL
Clinical Pharmacist Personalized Medicine Program (PMP)	Jul 2014 – Dec 2015 Chicago, IL

University of Illinois Hospital and Health Sciences System

PMP Directors: Julio Duarte, Pharm.D., Ph.D.

Edith Nutescu, Pharm.D., M.S., FCCP

Staff Pharmacist

Holmes Regional Medical Center

Pharmacy Director: Carlette A Norwood-Williams, Pharm.D.

Jul 2013 – Jun 2014

Melbourne, FL

Pharmacist Intern

Walgreens Pharmacy

Pharmacy Manager: Ayesha Perkins, Pharm.D.

May – Jul 2010

Lutz, FL

Pharmacy Tech

Rx Express Pharmacy

Pharmacy Manager: Rahul Patel, R.Ph.

Oct 2005 – Aug 2007

Lutz, FL

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### LICENSURE AND CERTIFICATION

Board Certified Pharmacotherapy Specialist

Illinois Pharmacist Licensure #051.297966

Florida Pharmacist Licensure PS50521

Jan 2017 – Present

Aug 2014 – Present

Jul 2013 – Present

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### PGY-1 RESIDENCY LEARNING EXPERIENCES (LONGITUDINAL AND CONCENTRATED)

Anticoagulation

Clinical Pharmacy Practice

Advanced Infectious Disease

Medication Safety

Pharmacy Informatics

Research

Critical Care I and II

Infectious Disease

Internal Medicine I and II

Ambulatory Care

Hospital Pharmacy 101

Ted Heierman, Pharm.D., C.Ph.

Jessica Dabady, Pharm.D.

Heather McCormick, Pharm.D., BCPS

Jaclyn Jeffries, Pharm.D.

Marta Hamilton, Pharm.D., John Voorhies, Pharm.D.

Jessica Dabady, Pharm.D.

Kimberly Hunger, Pharm.D., BCPS

Stacey Baggett, Pharm.D., BCPS

Stacey Baggett, Pharm.D., BCPS, Katherine Imhof, Pharm.D.

Norman Tomaka, M.S. Pharm, C.Ph., Ted Heierman, Pharm.D., C.Ph.

Jason Perry, Pharm.D.

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### RESEARCH EXPERIENCE

**Principal Investigator**

Pharmacogenetics Consultation Service: Patient Attitudes and Beliefs Surveys

UF Health Personalized Medicine Program

Aug 2017 – Present

**Co-investigator**

UF Health Personalized Medicine Program Implementation Data-

CYP2C19, TPMT, IL28B, CYP2D6

UF Health Personalized Medicine Program

Principal Investigator: Kristin Weitzel, Pharm.D., FAPhA

Jan 2017 – Present

Gainesville, FL

**Co-investigator**

Genomic Medicine Implementation: The Personalized Medicine

Program: Education Protocol

UF Health Personalized Medicine Program

Principal Investigator: Kristin Weitzel, Pharm.D., FAPhA

Jan 2017 – Present

Gainesville, FL

**Co-investigator**

Improving Treatment Personalization of Pulmonary Hypertension

Meghan Arwood

Curriculum Vitae

Apr 2016 – Mar 2017

Gainesville, FL

Associated with Diastolic Heart Failure Study

Department of Pharmacotherapy and Translational Research  
University of Florida College of Pharmacy  
Investigators: Julio Duarte, Pharm.D., Ph.D.  
Hassan Alnuaimat, M.D.  
Ali Ataya, M.D.

Department of Pharmacy Practice  
University of Illinois at Chicago College of Pharmacy  
Investigators: Julio Duarte, Pharm.D., Ph.D.  
Roberto Machado, M.D.  
Christopher Gans, M.D.

Aug 2014 – Dec 2015  
Chicago, IL

Responsibilities: Recruited and consented patients, coordinated study visits, and performed data collection.

**Co-investigator**

DNA Collection in Healthy Subjects

Department of Pharmacy Practice  
University of Illinois at Chicago College of Pharmacy

Responsibilities: Wrote study protocol, recruited and consented patients, trained research assistants, and performed data collection.

Investigators: Julio Duarte, Pharm.D., Ph.D.  
Roberto Machado, M.D.

Jan – Dec 2015  
Chicago, IL

**Co-investigator**

Genetic Determinants of Drug Response in Heart Failure Study

Department of Pharmacy Practice  
University of Illinois at Chicago College of Pharmacy

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, Pharm.D., Ph.D.  
Thomas Stamos, M.D.  
Christopher Gans, M.D.

Aug 2014 – Dec 2015  
Chicago, IL

**Research Assistant**

Clarification of Optimal Anticoagulation through Genetics (COAG) Trial

Department of Pharmacotherapy and Translational Research  
University of Florida College of Pharmacy

Responsibilities: Recruited and consented patients.

Advisors: Rhonda Cooper-DeHoff, Pharm.D., M.S., FAHA, FACC  
Julie Johnson, Pharm.D., FCCP, BCPS

Oct – Nov 2012  
Gainesville, FL

**Co-investigator**

Pharmacogenomic Evaluation of Antihypertensive Responses (PEAR) Follow-up Trial

Department of Pharmacotherapy and Translational Research  
University of Florida College of Pharmacy

Responsibilities: Genotyped two single nucleotide polymorphisms (SNPs) hypothesized to have an association with new onset Type 2 Diabetes,

May – Dec 2011  
Gainesville, FL

recruited and consented patients for the PEAR Follow-up trial, gave a final presentation, 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, Pharm.D., M.S., FAHA, FACC

## PUBLICATIONS

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**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. doi: 10.1002/cpt.558.

**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. doi: 10.1111/cts.12404. [Epub ahead of print]

**Arwood MJ**, Cavallari LH, Duarte JD. Pharmacogenomics of hypertension and heart disease. *Curr Hypertens Rep.* 2015 Sep;17(9):586.

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.

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.

**Arwood MJ.** Medication Management: MTM Optimizes Therapeutic Outcomes. *Space Coast Medicine & Active Living.* Oct/Nov 2013; 164-165. Print.

## TEACHING EXPERIENCE

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### Current Trainee:

Benjamin Duong, Pharm.D. Jul 2017 – Present

### Previous Trainees:

Hanna Harper, Pharm.D. Candidate 2020	Jun – Aug 2017
D. Max Smith, Pharm.D., BCPS	Mar – Jun 2017
Justin Immerman, Pharm.D. Candidate 2018	May – Aug 2016
Candice Bundzinski, Pharm.D. Candidate 2019	Aug – Dec 2015
Ina Liko, Pharm.D. Candidate 2017	Jul 2014 – Dec 2015
Anesia Reticker, Pharm.D. Candidate 2018	May – Aug 2015
Patrick Prunty, Pharm.D. Candidate 2018	May – Aug 2015
Lorena Berrios, Pharm.D. Candidate 2018	Jan – Apr 2015
Paula Bielnicka, Pharm.D. Candidate 2018	Jan – Apr 2015
Ali Alobaidi, Pharm.D. Candidate 2018	Jan – Apr 2015

## PRESENTATIONS/LECTURES

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"Beyond the CPIC Guidelines: Emerging Gene-Drug Pairs and Clinical Implementation" Apr 2017  
PHA 5012, Clinical Applications of Personalized Medicine Lecture  
University of Florida College of Pharmacy Gainesville, FL

"Translational Pharmacogenomics: Opportunities, Experience, & Implementation" Apr 2017  
Student Personalized Medicine Coalition (sPMC) Seminar  
University of Florida College of Pharmacy Gainesville, FL

"Taking a Novel Approach: Update on Innovations in Pharmacogenetics Education" Mar 2017

Continuing Education Presentation (co-author to Kristin Weitzel, Pharm.D.) Precision Medicine Conference UF Health Personalized Medicine Program	Orlando, FL
“Advancing Clinical Implementation of Pharmacogenetics: Progress, Needs, and Opportunities” Continuing Education Presentation (co-author to Kristin Weitzel, Pharm.D.) Precision Medicine Conference UF Health Personalized Medicine Program	Mar 2017 Orlando, FL
“Clinical Laboratory Testing in Pharmacogenetics” PHA 5933, Clinical Applications of Personalized Medicine Lecture University of Florida College of Pharmacy	Nov 2016 Gainesville, FL
“Translational Pharmacogenomics: Research and Clinical Practice” Clinical Pharmacogenomics Faculty Candidate Seminar Department of Pharmacotherapy and Translational Research University of Florida College of Pharmacy	Jun 2016 Gainesville, FL
“Genome-wide analysis to identify novel treatment targets for pulmonary hypertension in heart failure patients” M.S. Thesis Project Proposal Defense University of Illinois at Chicago School of Public Health	Jun 2015 Chicago, IL
“Ventilator-associated pneumonia in trauma patients: gasping for answers about contributing risk factors and the efficacy of the ventilator bundle” Resident Final Research Presentation FSHP Florida Residency Conference	May 2014 Gainesville, FL
“The approach to reversing anticoagulation in intracerebral hemorrhages” Continuing Education Presentation 3rd Annual Pharmacy Practice Update & Residency Forum Palm Beach Atlantic University   Gregory School of Pharmacy	Jan 2014 West Palm Beach, FL
“Ventilator-associated pneumonia in trauma patients: gasping for answers about contributing risk factors and the efficacy of the ventilator bundle” Resident Poster Presentation ASHP Midyear Clinical Meeting	Dec 2013 Orlando, FL
“Venous Thromboembolism Prophylaxis and Treatment” Medical Student Lecture Holmes Regional Medical Center	Oct 2013 Melbourne, FL
“Conversions between Anticoagulants and the Approach to Their Reversal” Continuing Education Presentation Treasure Coast Society of Health-System Pharmacists	Sep 2013 Melbourne, FL
“Hazardous Drug Spill Control Measures In-service” Hospital Pharmacy 101 Rotation Holmes Regional Medical Center	Aug 2013 Melbourne, FL

**AWARDS AND HONORS**

2017 ASCPT Presidential Trainee Award	Mar 2017
2013 Merck Award for Outstanding Research	Apr 2013
F. Peter Field Scholarship, Kappa Psi	Mar 2011

Dean's List: College of Pharmacy	Fall 2009, Fall 2010, Spring 2011, Spring 2012
Dean's List: College of Agricultural and Life Sciences	Spring 2007, Fall 2007, Fall 2008, Spring 2009
Elected into Golden Key International Honour Society	Spring 2008
Dean's List: College of Education	Fall 2006
Florida Bright Futures: Florida Academic Scholars Award	Fall 2006 – Spring 2010
International Baccalaureate Certificate	May 2006

### **PROFESSIONAL ORGANIZATIONS**

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

### **PROFESSIONAL ACTIVITIES**

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Member, Implementing Genomics in Practice (IGNITE) Common Measures group	Feb 2017 – Present
Member, ASCPT Social Media Task Force	Aug 2015 – Jun 2017
Member, SE Province KΨ Political Action Committee	Nov 2012 – Nov 2013
Chair, KΨ Golf Tournament	Aug 2011 – Apr 2012
Vice Regent, KΨ Pharmaceutical Fraternity	Feb 2011 – Feb 2012
Assistant Webmaster, Province IV KΨ Pharmaceutical Fraternity	Jan 2011 – Jan 2012
Member, Province IV KΨ Publications Committee	Jan 2011 – Jan 2012
Historian, KΨ Pharmaceutical Fraternity	Feb 2010 – Feb 2011
Member, Province IV KΨ Risk Management Committee	Jan 2010 – Jan 2011