

Khoa Anh Nguyen, Pharm.D

Work Address

University of Florida, College of Pharmacy
1225 Center Dr, Gainesville, FL 32610

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PROFESSIONAL POSITIONS

Clinical Assistant Professor 7/2019 - Present
University of Florida, College of Pharmacy
Department of Pharmacotherapy and Translational Research
Gainesville, Florida

Informatics Pharmacist 7/2019 - Present
University of Florida Health
Personalized Medicine Program
Gainesville, Florida

Faculty Liaison 7/2020 - Present
University of Florida, Clinical and Translational Science Institute
Integrated Data Repository Research Services (IDR)
Gainesville, Florida

Affiliated Research Scientist 7/2019 - Present
Regenstrief Institute, Inc
William M. Tierney Center of Health Services Research
Indianapolis, Indiana

Affiliated Research Scientist 9/2018 - Present
Richard L. Roudebush Veteran Affairs Medical Center
Health Services Research and Development
Indianapolis, Indiana

Visiting Assistant Professor 9/2018 – 7/2019
Purdue University, College of Pharmacy
Department of Pharmacy Practice
Indianapolis, Indiana

EDUCATION

VA Medical Informatics Post-doctoral Research Fellow 9/2015 – 8/2018
Richard L. Roudebush VA Medical Center
VA Health Services Research and Development (HSR&D)
Center for Health Information and Communication (CHIC)
Indianapolis, Indiana

Doctor of Pharmacy 9/2011 – 4/2015
University of Michigan, College of Pharmacy
Ann Arbor, Michigan

Bachelor of Science: Biochemistry and Molecular Cell Biology 9/2008 – 6/2010
UC Davis, College of Biological Sciences
Davis, California

CERTIFICATIONS

Epic Training Environment Build TED300 Virtual training Epic Certificate # 161365668	7/20201
Epic Willow Inpatient Virtual training Epic Certificate #107204922	3/2021
UF Graduate Program in Precision Medicine University of Florida, College of Pharmacy <i>Graduate Certificate</i>	2019-2020
Rx150 Inpatient Pharmacist Clinical Tools Builder Epic Headquater, WI <i>Epic Certificate #87421443</i>	9/2019
VA Health Informatics Certificate Program American Medical Informatics Association (AMIA) <i>AMIA 10x10 online course</i>	1/2017-7/2017
Indiana Pharmacy Teaching Certificate Program, Indianapolis, IN <i>IPTeC Certificate</i>	9/2016 – 7/2017

PUBLICATIONS**JOURNAL PUBLICATIONS (PEER-REVIEWED)**

Grande KJ, Dalton R, Moyer NA, Arwood M, **Nguyen KA**, Rasmussen S, Sumfest J, Ashcraft KC, Copper-DeHoff RM. “Assessment of manual versus automated algorithms to identify patients at high risk for gene-based adverse drug outcomes in a nuversity-based health insurance program” *Jounral of Personalized Medicine* 2022 (in press)

Elchynski, A.L.; Desai, N.; D’Silva, D.; Hall, B.; Marks, Y.; Wiisanen, K.; Cicali, E.J.; Cavallari, L.H.; **Nguyen, K.A.** “Utilizing a Human–Computer Interaction Approach to Evaluate the Design of Current Pharmacogenomics Clinical Decision Support”. *J. Pers. Med.* 2021, 11, 1227.
<https://doi.org/10.3390/jpm11111227>

Schneider TM, Eadon MT, Copper-DeHoff RM, Cavanaugh KL, **Nguyen KA**, Arwood MJ, Tillman EM, Pratt VM, Dexter PR, Peterson JF, Orlando LA, Scott S, Nadkarni GN, Horowitz CR, Kannry J. “Multi-institutional implementation of clinical decision support for APOL1, NAT2, and YEATS4 genotyping in antihypertensive management.” *Journal of Personalized Medicine.* 2021.

Nguyen KA, Eadon MT, Yoo R, Milway E, Kenneally A, Fekete K, Oh H, Duong K, Whipple EC, Schleyer K. “Risk Factors for Bleeding and Clinical Ineffectiveness Associated with Clopidogrel Therapy: A Comprehensive Meta-Analysis.” *Clinical and Translational Science* (2020) 0, 1-11.

Seligson ND, Warner JL, Dalton WS, Martin D, Miller RS, Patt D, Kehl KL, Palchuk MB, Alterovitz G, **Nguyen KA**, Chen JL. “Recommendations for Patient Similarity Categories: Results of the AMIA 2019 Workshop on Defining Patient Similarity” *JAMIA.* 2020. <https://doi.org/10.1093/jamia/ocaa159>

Nguyen KA, Patel H, Haggstrom D, Zillich A, Imperiale T, Russ AL. “Utilizing User-Centered Approach to Develop and Assess a Pharmacogenomic Clinical Decision Support for Thiopurine Methyltransferase” *BMC Medical Informatics and Decision Making* 2019. 19:194.
<https://doi.org/10.1186/s12911-019-0919-4>

Nguyen KA, Li L, Lu D, Yazdanparast A, Wang L, Kreutz R, Whipple E, Schleyer TK. “A Comprehensive Review and Meta-analysis of Risk Factors for Statin-induced Myopathy,” *European Journal of Clinical Pharmacology* 2018. 74(9): 1099-1109.

Russ AL, Jahn MA, Patel H, Porter BW, **Nguyen KA**, Zillich AJ, Linsky A, Simon SR. “Usability Evaluation of a Medication Reconciliation Tool: Embedding Safety Probes to Assess Users' Detection of Medication Discrepancies,” *Journal of Biomedical Informatics*, 2018. 82: 178-186.

Nguyen KA, Haggstrom DA, Ofner S, Perkins SM, French DD, Myers LJ, Rosenman M, Weiner M, Dixon BE, Zillich AJ. “Medication Use among Veterans across Health Care Systems” *Appl Clin Inform* 2017; 8: 235-249.

JOURNAL MANUSCRIPTS IN PROGRESS

Nguyen KA, Militello LG, Ifeachor AP, Arthur KJ, Glassman PA, Zillich AJ, Weiner M, Russ-Jara AL. “Strategies Prescribers and Pharmacists Use to Identify and Mitigate Adverse Drug Reactions: Implication for Clinical Decision Support” (Accepted with minor revision BMC open)

Lo-Ciganic, WH, Wang T, Ge Y, Hincapie-Castillo J, Jones BL, Huang JL, Chang CY, Wilson D, Lee JK, Reisfield GM, Kwok CK, Delcher PC, **Nguyen KA**, Zhou L, Shorr RI, Guo JC, Marcum ZA, Harle CA, Gellad WF. “Association between dose and duration patterns of opioid and benzodiazepine use and risk of opioid overdose among US Medicare beneficiaries: A retrospective cohort study.” (pending)

Russ-Jara, AL, Snyder ME, **Nguyen KA**, Sanchez S, Taylor M, Patel M, Robinson M, Weiner M. “Medication Reconciliation and Associated Use of Health Information Exchange Technologies across Institutions: A Qualitative Study” (pending)

Wiisanen, K, **Nguyen KA**. “Patient-Facing and Patient-Centered Clinical Decision Support for Pharmacogenomics.” Book chapter (pending)

Christian D, **Nguyen KA**. “A Pragmatics Multi-Site Clinical Trial to Communicate Personalized Hypertension and Kidney Disease Genomic Data to African Ancestry Patients and Their Providers.” (pending)

CONFERENCE PODIUM (PEER-REVIEWED)

Nguyen KA, Militello LG, Ifeachor AP, Arthur KJ, Glassman PA, Zillich AJ, Weiner M, Russ-Jara AL. “Developing a Cognitive Process Model to Describe How Health Care Professionals Identify and Mitigate Adverse Drug Reactions.” Oral presentation at the International Symposium on Human Factors and Ergonomics in Health Care, New Orleans, Louisiana, USA, March 2022.

Nguyen KA, Durkin M, Scott H, Mishra R, Shimpi, N. “Integrating Pharmacogenomics and Informatics Approaches to Support Precision Medicine for Improved Patient Outcome” Workshop presentation for the American Medical Informatics Association Symposium (AMIA), Virtual, November 2020.

Russ-Jara AL, **Nguyen KA**, Snyder ME, Patel H, Sanchez S, Traylor M, Robinson M, Damush TM, Taber P, Mixon AS, Fan V, Weiner M. “Facilitators and Barriers to Clinicians' Use of Health Information Exchange Technologies to Coordinate Medications across Institutions.” International Symposium on Human Factors and Ergonomics in Health Care, Toronto, Ontario, Canada, May 2020.

Nguyen KA, Patel H, Haggstrom D, Zillich A, Imperiale T, Russ A. “Pharmacogenomics Clinical Decision Support for Thiopurine Methyltransferase” Podium presentation for the National Library Medicine Conference, Vanderbilt University, Nashville, TN, June 2018.

CONFERENCE POSTERS (PEER-REVIEWED)

Dragoljevic B, Elchynski AL, **Nguyen KA**, Cavallari LH, Wiisanen K, Cicali EJ. Effect of TPMT pharmacogenetic post-test alerts on dose adjustments of thiopurines for malignant and non-

malignant conditions at University of Florida (UF) Health Shands. Virtual poster presentation at American Society of Health-System Pharmacists (ASHP) Midyear Clinical Meeting. December 7, 2021.

Desai N, Elchynski A, Hall B, D'Silva D, Marks Y, **Nguyen KA**. "Evaluating Pharmacogenomic Clinical Decision Support Design Using a Human-Computer Interaction Approach." Poster Presentation for the American Society of Hospital Pharmacists (ASHP) Midyear 2021, Orlando, FL, (Virtual) December 10, 2021

Nguyen KA, DeRemer CE, Dietric EA, Farland MZ. Methods to develop an ambulatory care scorecard to quantitatively measure the clinical outcomes of clinical faculty pharmacists at a health learning system. Poster presentation at the American College of Clinical Pharmacy (ACCP). Pheonix, AZ, October 2021

Hall B, Desai, N, Elchynski A, Marks Y, D'Silva, **Nguyen KA**. Utilizing a Human-Computer Interaction approach to evaluate the design of current PGx-CDS. Virtual poster presentation at University of Florida College of Pharmacy 34th Annual Research Day. Gainesville FL. April 13, 2021. Poster 91.

Dragoljevic B, Hook M, McKenna E, Nguyen A, Valentin D, Cavallari L, Wiisanen K, **Nguyen KA**, Elchynski A, Cicali EJ. Evaluation of prescriber responses to TPMT pre-test alerts at UF Health Shands Hospital. Virtual poster presentation at University of Florida College of Pharmacy 34th Annual Research Day. Gainesville FL. April 13, 2021. Poster 97.

Nguyen KA, Eadon MT, Yoo R, Schleyer TK. "A meta-analysis of risk factors for bleeding and clinical ineffectiveness during clopidogrel therapy." Poster presentation for the American College of Clinical Pharmacy (ACCP). Virtual, October, 2020

Nguyen KA, Schleyer TK. "Improving Pharmacy Knowledge and Skills of Pharmacy Students through Meta-analysis Research." Poster presentation for the American Society of Hospital Pharmacists (ASHP) Midyear 2019, Las Vegas, NV, December 10, 2019

Nguyen KA, Patel H, Haggstrom D, Zillich A, Imperiale T, Russ A. "Development and Assessment of Pharmacogenomic Clinical Decision Support for Thiopurine Methyltransferase Utilizing User-center Approach." Poster presentation for the American Medical Informatics Association Symposium (AMIA), Washington DC, November 18, 2019

Nguyen KA, Li L, Lu D, Yazdanparast A, Wang L, Kreutz RP, Whipple EC, Schleyer T. "Statin-Induced Myopathy: A comprehensive assessment of risk factors" Poster presentation for the American Association of Colleges of Pharmacy (AACCP PharmEd18), Boston, MA, July 2018. (*awarded best poster by a postdoctoral fellow*)

Nguyen KA, Zillich AJ, Perkins S, Ofner S, Haggstrom D. "Assessing patterns of Medication use across VA and Non-VA healthcare Systems" Poster presentation for the American Medical Informatics Association Symposium (AMIA), Chicago, IL, November 15, 2016.

Nguyen KA, Zillich AJ, Haggstrom DA, Imperiale TF, Russ AL. "Assessing the Need for Pharmacogenomic Clinical Decision Support to Assist Safer Prescribing Decisions for Thiopurine Medications." Regenstrief Biennial Conference: Precision Medicine, Marshall, IN, October 5-7, 2016.

Nguyen KA, Zillich AJ, Perkins S, Ofner S, Haggstrom D. "Medication Use among Veterans across Health Care Systems" Poster presentation for the National Library Medicine Conference, Columbus, OH, June 2016.

Jahn MA, Caldwell BS, **Nguyen KA**, Patel H, Simon SR, Zillich AJ, Russ AL. "Improving patient - provider communication for medications via health information technology." Purdue Industrial Engineering Graduate Student Organization Research Symposium, Purdue University, West Lafayette, IN, April 21, 2016.

TEACHING EXPERIENCE

COURSES

PFF 2019, 2020: Putting Families First. Course co-coordinate

PHA7939: PTR Journal Club. Course coordinate 2019, 2020,2021,2022

LECTURES

PHA6935: Clinical pharmacogenomics Implementation. “Clinical Decision Support” 1-hour lecture

PHA5784C: Patient Care 4. “Data Quality in Clinical Decision Supports” 1-hour lecture

PHA5878C: Patient Care 3. “Health information technology and informatics” 1-hour lecture

“Pharmacogenomics Informatics, Utilizing Clinical Decision Supports to improve implementation.”
1-hour lecture to P2 students at Purdue University, College of Pharmacy, West Lafayette, IN, March 29, 2019 - *PHRM 847 course*

“Clinical Decision Supports in Pharmacogenomics.” 1-hour lecture to P2 students at Purdue University, College of Pharmacy, West Lafayette, IN, March 21, 2018 - *PHRM 847 course*

“Pharmacogenomics Career Paths for Pharm.D: A former Student Perspective.” 1-hour lecture to P3 students at University of Michigan, College of Pharmacy, Ann Arbor, MI, March 31, 2017 – *PS718 Biopharmaceutics and pharmacogenomics course*

“Therapeutic case studies, Chronic Kidney Disease and Anemia.” 2-hour didactic lecture to P2 students at Purdue University, College of Pharmacy, West Lafayette, IN, Dec 5, 2016 – *CLPH 448 elective course*

“Lupus nephritis.” 2-hour seminar to P4 classmates at University of Michigan, College of Pharmacy, Ann Arbor, MI, September 2014. Preceptor: Dr. Christen

OTHERS

Ostling S, **Nguyen KA.** “Diabetes Point of care laboratory”. Facilitated 4-hour laboratory to P2 students at Purdue University, College of Pharmacy, West Lafayette, IN, October 20, 2016.

Snyder M, **Nguyen KA.** “Medication Therapy Management (MTM)”. Facilitated 1-hour MTM lab to P3 students at Purdue University, College of Pharmacy, West Lafayette, IN, October 2016

Nguyen KA. “Pharmacist and Health Informatics”, facilitated a 1-hour discussion on health informatics to P4 students on rotations at VA Indianapolis, IN. November 4, 2016

GRANTS

FUNDED/IN PROGRESS RESEARCH

Investigators: Michael Weiner, MD (PI), **Khoa Nguyen**, Pharm.D (Co-Investigator, 10%)
Source: VA HSR&D IIR
Project Title: “A Human Factors Investigation of Health Information Exchange: Tools to Support Providers’ Coordination of Medications”
Date: 3/2018-3/2022
Amount: \$ 1,099,724

Investigators: Julie Johnson, PharmD (PI), **Khoa Nguyen**, Pharm.D (Co-Investigator, 10)
Source: NHGRI
Project Title: “Sparking Advancements in Genomic Medicine”
Date: 9/2019-6/2023
Amount: \$7,630,169

Investigators: Wei Ciganic, PhD (PI); **Khoa Nguyen**, PharmD (Co-Investigator, 10%)
Source: 1R01DA050676 - 01A1
Project Title: Developing and Evaluating a Machine-Learning Opioid Prediction and Risk-Stratification E-Platform (DEMONSTRATE)
Date: 07/2021 – 04/2026
Amount: \$3,237,039

Investigators: Julio Duarte (PI); **Khoa Nguyen**, PharmD (Co-Investigator)
Source: Shand Endowment
Project Title: Using Artificial Intelligence to Identify Patients Most Likely to Benefit from Preemptive Pharmacogenetic Testing
Date: 07/2021 – 06/2022
Amount: \$14,150

PENDING RESEARCH PROPOSAL

Investigators: Alisa Russ-Jara, PhD (PI); **Khoa Nguyen**, PharmD (site PI, 10%)
Source: AHRQ Health Services Research Projects (R01) (FOA: PA-18-795)
Project Title: “A Multi-level Approach to Increase the Detection of Usability Problems Associated with Electronic Health Records in Primary Care”
Date: Submitted in 6/2021

Investigators: Caitrin Rowe, PhD (PI); **Khoa Nguyen**, PharmD (Co-I, 2.5%)
Source: NHLBI
Project Title: Leveraging Electronic Health records to Improve Identification and Risk Prediction
Date: Submitted 6/2021

Investigators: Haesuk Park, PhD (PI); **Khoa Nguyen**, PharmD (Co-I, 5%)
Source: NIDA
Project Title: Assessing performance of a Hepatitis C Emergency Department Screening
Date: Submitted 9/2021

COMPLETED RESEARCH

Investigators: Wei Ciganic, PhD (PI); **Khoa Nguyen**, PharmD (Co-Investigator, 5%)
Source: NIA R21
Project Title: Predicting Risky Opioid-Benzodiazepine Trajectory e-Care Tool (PROTeCT)
Date: 08/2020 – 12/2021
Amount: \$523,247

Investigators: **Khoa Nguyen**, Pharm.D (PI, 5%)
Source: UF PROSPER
Project Title: “Utilizing a Human-Computer Interaction Approach to Evaluate the Design of Current Pharmacogenomics Clinical Decision Support”
Date: 08/2020 – 04/2021
Amount: \$ 8,000

Investigators: **Khoa Nguyen**, Pharm.D (PI,30%), Titus Schleyer, DMD, PhD (Co-PI)
Project title: “Assessing risk factors for bleeding and non-clinical response of clopidogrel”
Dates: 8/2018 – 8/2019

Investigators: **Khoa Nguyen**, Pharm.D (PI, 20%)
Source: VA HSR&D Fellowship Project, VA HSR&D Local Initiated Project Award

Project title: Pharmacogenomic clinical decision support tool to assist safer prescribing decisions for patients: A scenario-based pilot study

Dates: 04/2016-8/2018

Amount: \$12,900

Investigators: **Khoa Nguyen**, Pharm.D (PI, 15%), Titus Schleyer, DMD, PhD (Co-PI)

Project title: “Risk factors of statin-related side effects, a systematic review and meta-analysis”

Dates: 5/1/2016 – 5/30/2018

Investigators: Alissa L. Russ, PhD (PI); **Khoa Nguyen** (Co-Investigator, 25%)

Source: VA HSR&D Career Development Award

Project title: Improving Medication Safety through Human Factors and Informatics Research

Dates: 05/01/2015 – 4/30/2018

Amount: \$682,628

Investigators: Steven Simon MD (PI), **Khoa Nguyen**, Pharm.D (Co-Investigator, 10%) – 2 years, contributed as a fellow

Source: VA IIR#14-059

Project title: “The Secure Messaging for Medication Reconciliation Tool (SMMRT) Trial”

Dates: 7/1/2015-6/30/2018

Amount: \$990,767 (\$103,900 to Indianapolis)

Investigators: David Haggstrom, MD (PI), **Khoa Nguyen**, Pharm.D (Co-Investigator, 15%) - 1 year, contributed as a fellow

Source: VA HSR&D Merit Review Award

Project title: Evaluation of VLER-Indiana Health Information Exchange Demonstration

Dates: 7/1/12-12/31/15

Amount: \$895,227

HONORS AND AWARDS

Best Poster by a Postdoctoral Fellow, American Association of College of Pharmacy (AACP PharmEd18), Boston, MA 8/2018

Local Initiated Project Award, HSR&D CHIC, VA Indianapolis 2016 - 2018

Zaccardelli Family Pharmacy Scholarship, University of Michigan 2013 - 2014,
2014 - 2015

Blue and Gold Scholarship, University of California – Davis 2009

Elliot’s Scholarship, University of California – Davis 2008

PROFESSIONAL MEMBERSHIPS

2011 - 2012 Operations Officer, Phi Delta Chi, University of Michigan

2011 - 2014 Member, International Society of Pharmacoeconomics and Outcomes Research

2012 - 2013 Treasurer, Student National Pharmaceutical Association

2014 – 2015 Member, American Pharmacists Association Academy of Student Pharmacists

2019 - present Member, American Society for Clinical Pharmacology & Therapeutics

2018 - present Member, American Association of College of Pharmacy

2015 - present Member, American Medical Informatics Association

PROFESSIONAL DEVELOPMENT

BestPractice Advisories – Advanced Badge 2/21, 2020

Virtue training, Epic

Contact hours: 4 hours	
BestPractice Advisories – Basics	1/13 – 1/14, 2020
Virtue training, Epic	
Contact hours: 12 hours	
Mentor Training Session	5/29, 6/4, 6/26, 2019
Regenstrief Institute, IUPUI, Indianapolis, IN	
Contact hours: 10 hours (3 sessions)	
Early Career Faculty Program	2018, 2019
AACP PharmEd18 and PharmEd19	
Contact hours: 8 hours	
Biostatistics for Health Care Researchers: A short course	11/14 - 11/16, 2017
Indiana University, IN	
Contact hours: 15 hours	
Designing, Analyzing, and Skillfully Synthesizing Quantitative and Qualitative Results from Mixed Methods Studies	7/11 - 7/13, 2017
Regentrief Institute, IN	
Contact hours: 18 hours	
Scientific Writing from the Reader’s Perspective	12/6 - 12/7, 2016
IUPUI, Indianapolis, IN	
Contact hours: 14 hours	
Write Winning Grant Proposals	8/30, 2016
IUPUI, Indianapolis, IN	
Contact hours: 7 hours	
The Center Role of Phenotyping in VA Research: Emerging Innovations and Future Directions for Use of electronic health Data	9/12 – 9/13, 2016
2-day workshop, Washington, DC	
Clinical Trials Course	1/2016 – 4/2016:
Indiana University Purdue University at Indianapolis (IUPUI)	
Indianapolis, IN	
1 semester long, 3 credits course	
ORAL PRESENTATIONS (Non-peer Reviewed)	
Providing Pharmacogenomic E-counseling to Veterans through Patient Portal, VA HSR&D, Indianapolis, IN	3/2017
Risk factors associated with statin-induced myopathy: A meta-analysis study, Purdue University, College of Pharmacy Department of Clinical Practice, Indianapolis, IN	2/2017
Patient recruitment to a 6-formulation, 6-period, randomized, cross-over study of pharmacokinetic of bupropion hydrochloride products with different release patterns, University of Michigan science forum, Ann Arbor, Michigan	3/2015
Medications and Fall Risk, Psychiatry Nursing Department, University of Michigan Health System	12/2014
Assess the level of Evidence Required for Pharmacogenetic Testing,	10/2014

First Databank, San Francisco, California

New Oral Anticoagulants for Nonvalvular Atrial Fibrillation 8/2014
University of Michigan Health System, Ann Arbor, Michigan

Herbal Medications for Patients with Dialysis 8/2014
Hemodialysis Outpatient Clinic, Ann Arbor, Michigan

FARXIGA® for the Treatment of Adult Patients with Type II Diabetes, 4/2014
University of Michigan Health System, Ann Arbor, Michigan

Drugs Do Not Work for People Who Do Not Take Them: 12/2013
Assessing the Acceptance of a Male Oral Contraceptive, JQ-1,
2013 Clinical Forum, Michigan League, University of Michigan

The Role of Pharmacogenomics in Formulary Decision-Making, 10/2013
University of Michigan – College of Pharmacy

MICHR: Kenya Global Summer Research, 11/2012
Michigan League, University of Michigan

ADDITIONAL RESEARCH EXPERIENCE

Pharmacokinetic study of bupropion hydrochloride product 11/2012-11/2014
with different release patterns

University of Michigan – College of Pharmacy, Ann Arbor, Michigan
Mentor: Duxin Sun, Ph.D., Professor of Pharmaceutical Sciences

- Collected whole blood samples from participants in order to compare pharmacokinetic (PK) parameters (e.g., AUC, Tmax, Cmax) in subjects receiving different formulations of bupropion
- Evaluated the pharmacogenomics of bupropion via CYP2B6 metabolism stratified by race/ethnicity

Statin prescribing patterns in diabetic patients 5/2013 – 6/2014

University of Michigan Health System, Ann Arbor, Michigan
Mentor: Hae Mi Choe, Pharm.D., Director, Associate Professor

- Evaluated the appropriateness of HMG-CoA reductase inhibitors and prescribing patterns based on lipid panels, LDL goals, LFTs, allergies, and the updated 2013 ACC/AHA cholesterol guidelines
- Suggested new HMG-CoA reductase inhibitor therapy if patients qualified for modifications in therapy to reflect medication cost savings and utilization

Kenya Summer Research Program at Kenya Methodist University 5/2012 – 8/2012
(KEMU), Meru, Kenya

Michigan Institute for Clinical and Health Research
Mentor: Daniel J. Clauw, M.D., Professor of Anesthesiology, Medicine

- Established a global connection between University of Michigan and KEMU by sharing best practices and curricula
- Developed a survey with medical staff and students about chronic pain management and implemented this to local Kenyan people in order to assess causes for chronic pain

PHARMACY PRACTICE EXPERIENCES

Advanced Pharmacy Practice Experiences (APPEs)

- University of Michigan Health System, Ann Arbor, Michigan** 3/2015 – 4/2015
Community Practice
Preceptor: Gwendolyn Chivers, B.S., MBA
- Recommended SMS text feature and mobile apps to current NRx QS1 pharmacy system to improve workflow and reduce workload
- Detroit Medical Center, Detroit, Michigan** 2/2015 – 3/2015
Drug Information- Medication Safety
Preceptor: Frank Zaran, B.S. Pharm.
- Created intra-articular hyaluronate monograph (Euflexxa® versus Monovisc™) for formulary review
- University of Michigan Children Hospital, Ann Arbor, Michigan** 1/2015 – 2/2015
Inpatient – Neonatal Intensive Care Unit (NICU)
Preceptor: Samira Saad, Pharm.D.
- Monitored and evaluated total parenteral nutrition orders for pediatric patients at NICU. Recommended order adjustment based on patient's profile and daily electrolyte lab values
- University of Michigan Health System, Ann Arbor, Michigan** 11/2014 – 12/2014
Inpatient – Psychiatry
Preceptor: Jolene Bostwick, Pharm.D.
- Worked with a collaborated team to optimize treatment options for antipsychotic, antidepressant therapy
- First Databank, San Francisco, California** 10/2014 – 11/2014
Health Informatics
Preceptor: Karl Matuszewski, MS, Pharm.D.
- Assessed and classified the clinical utility of pharmacogenomic tests by compiling a list of medications with known pharmacogenomic polymorphisms
 - Created medication pamphlets for the most common medications prescribed in hospitals using Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) projects
 - Updated First Databank database with most current pediatric drug information
- University of Michigan Health System, Ann Arbor, Michigan** 9/2014 – 10/2014
Institutional: Operating Room & Investigational Drug Services (IDS)
Preceptors: Nancy Robare, R.Ph., Rivka Siden, Pharm.D.
- Collaborated with pharmacy staff to prepare sedative compounds and made recommendations on appropriate antibiotic dosing
 - Developed dispensing guidelines and prescription orders for an investigational drug study and participated in auditing a research study
- University of Michigan Health System, Ann Arbor, Michigan** 7/2014 – 8/2014
Inpatient – Internal Medicine
Preceptor: Randolph E. Regal, Pharm.D.

- Worked with a collaborative healthcare team to optimize antibiotic and anticoagulation therapy

**United Therapeutics Corp.,
Research Triangle Park, North Carolina**
Pharmaceutical Industry

6/2014 – 7/2014

Preceptor: Kevin Laliberte, Pharm.D.

- Organized and completed a *post-hoc* analysis of the most common treatment-emergent adverse events (TEAEs) for treprostinil (ORENITRAM™) by analyzing differences in TEAEs between per-protocol versus intention-to-treat analysis
- Analyzed the relationship between TEAEs and PK information by plotting AUC vs. time to TEAEs of each patient
- Contributed to developing the procedures of a Phase II safety trial in healthy volunteers and completed an annual update of the trial

University of Michigan Hemodialysis Clinic, Ann Arbor, Michigan
Ambulatory Care

5/2014 – 6/2014

Preceptor: Bruce A. Mueller, Pharm.D., FCCP, FASN, FNKF

- Recommended proper electrolyte medications based on the patient's profile and bimonthly lab values to rounding physicians
- Improved patient adherence and prevented medication errors using innovative solutions in the form of electronic visual aids

Introductory Pharmacy Practice Experiences (IPPEs)

University of Michigan Health System, Ann Arbor, Michigan
Clinical Inpatient

1/2014 – 4/2014

Preceptor: Rose Sohraby, Pharm.D.

Oakwood Hospital, Dearborn, Michigan
Institutional

1/2013/ - 12/2013

Preceptor: Gladys Dabaja, Pharm.D., Manager

Walgreens Pharmacy, Ypsilanti, Michigan
Community Pharmacy

1/2013 – 4/2013

Preceptor: Bradley Koselke, R.Ph.

PROFESSIONAL EXPERIENCES

Carepoint Pharmacy, Inc., Stockton, California
Pharmacy Technician

9/2009 – 8/2011

Preceptor: Brian Nguyen, R.Ph., MBA, CEO

LEADERSHIP EXPERIENCES

Student National Pharmaceutical Association (SNPhA)

2012 – 2014

Executive Board: Treasurer 2013 – 2014

- Executed decisions to organize and conduct fundraising events for the association and Relay For Life
- Developed and organized the *Diversity Night* event to help increase the awareness of diversity within the College

- Helped the chapter to win the National Excellence Award for the first time by organizing all required events and creating a new scholarship for minority students

Phi Delta Chi (PDC)

2011 – 2014

Committee Chair: Operations Officer 2013 – 2014

- Created and maintained an online portal for students to collaborate and utilize learning aids for therapeutic, pharmacokinetics, and medicinal chemistry courses
- Managed all technology-related problems for the organization (e.g., group mailing, online payment, online invitations)

VOLUNTEER AND COMMUNITY SERVICE

Hope Clinic, Ypsilanti, Michigan

1/2013 – 5/2014

Student pharmacist

Sam's Club Health Fair, Ypsilanti, Michigan

3/2014

Student pharmacist on behalf of SNPhA

Coalition on Temporary Shelter Health Fair, Detroit, Michigan

10/2012, 10/2013

Student pharmacist on behalf of SNPhA

Oakland County Health Fair, Southfield, Michigan

9/2012, 9/2013

Student pharmacist on behalf of SNPhA and Wayne County Pharmacists Association

American Cancer Society – Relay For Life, Ann Arbor, Michigan

4/2012, 4/2013

Student pharmacist on behalf of SNPhA and PDC