

Khoa Anh Nguyen, Pharm.D

Work Address

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

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(352) 273-9418

ACADEMIC APPOINTMENTS

Clinical Assistant Professor 7/2019 - Present

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

PROFESSIONAL APPOINTMENTS

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

Director of Pharmacy Informatics Fellowship 1/2022 – Present

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

Phi Delta Chi Faculty Advisor 1/2023 – Present

Delta Delta Chapter, UF College of Pharmacy
Gainesville, Florida

PAST ACADEMIC APPOINTMENTS

Affiliated Research Scientist 7/2019 – 3/2022

Regenstrief Institute, Inc
William M. Tierney Center of Health Services Research
Indianapolis, Indiana

Affiliated Research Scientist 9/2018 – 3/2022

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 <i>Richard L. Roudebush VA Medical Center</i> VA Health Services Research and Development (HSR&D) Center for Health Information and Communication (CHIC) Indianapolis, Indiana	9/2015 – 8/2018
Doctor of Pharmacy <i>University of Michigan, College of Pharmacy</i> Ann Arbor, Michigan	9/2011 – 4/2015
Bachelor of Science: Biochemistry and Molecular Cell Biology <i>UC Davis, College of Biological Sciences</i> Davis, California	9/2008 – 6/2010

CERTIFICATIONS

Epic Research Informatics Core Virtual training	pending
Epic Training Environment Build TED300 Virtual training Epic Certificate # 161365668	7/2021
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
EPIC Inpatient Pharmacist Clinical Tools Builder Epic Headquarter, 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

PAST AND PRESENT FELLOW

Braley Hall (07/2022 to present). Pharmacy Informatics Fellowship

PUBLICATIONS

JOURNAL PUBLICATIONS (PEER-REVIEWED)

1. Norris M, Dalton R, Alam B, Eddy E, **Nguyen KA**, Cavallari LH, Sumfest J, Wiisanen K, Cicali EJ. Lessons from clinical implementation of a preemptive pharmacogenetic panel as part of a testing pilot

- program with an employer-sponsored medical plan. *Front Genet.* 2023 Aug 23;14:1249003. doi: 10.3389/fgene.2023.1249003. PMID: 37680199; PMCID: PMC10482099.
2. Lemke LK, Cicali EJ, Williams R, **Nguyen KA**, Cavallari LH, Wiisanen K. Clinician Response to Pharmacogenetic Clinical Decision Support Alerts. *Clin Pharmacol Ther.* 2023 Sep 16. doi: 10.1002/cpt.3051. Epub ahead of print. PMID: 37716912.
3. Cicali EJ, Thomas CD, Elchynski A, Alam B, Dalton R, Davis R, Eken E, Estores D, **Nguyen KA**, Cavallari LH, Wiisanen K. Implementation of CYP2C19 genotyping to guide proton pump inhibitor use at an academic health center. *Am J Health Syst Pharm.* 2023 May 11:zxad099. doi: 10.1093/ajhp/zxad099. Epub ahead of print. PMID: 37166240.
4. Cicali EJ, Lemke L, Al Alshaykh, H, **Nguyen KA**, Cavallari LH, Wiisanen K. How to implement a pharmacogenetics service at your institution. *J Am Coll Clin Pharm.* 2022; 1- 15. doi:10.1002/jac5.1699
5. Cavallari LH, Cicali E, Wiisanen K, Fillingim RB, Chakraborty H, Myers RA, Blake KV, Asiyanbola B, Baye JF, Bronson WH, Cook KJ, Elwood EN, Gray CF, Gong Y, Hines L, Kannry J, Kucher N, Lynch S, **Nguyen KA**, Obeng AO, Pratt VM, Prieto HA, Ramos M, Sadeghpour A, Singh R, Rosenman M, Starostik P, Thomas CD, Tillman E, Dexter PR, Horowitz CR, Orlando LA, Peterson JF, Skaar TC, Van Driest SL, Volpi S, Voora D, Parvataneni HK, Johnson JA, Network TIGNITEPT. Implementing a Pragmatic Clinical Trial to Tailor Opioids for Acute Pain on behalf of the IGNITE ADOPT PGx Investigators. *Clin Transl Sci.* 2022 Jul 28. doi: 10.1111/cts.13376. Epub ahead of print. PMID: 35899435.
6. Salloum RG, Bilello L, Bian J, DiIulio J, Paz LG, Gurka MJ, Gutierrez M, Hurley RW, Jones RE, Martinez-Wittingham F, Marcial L, Masri G, McDonnell C, Militello LG, Modave F, **Nguyen KA**, Rhodes B, Siler K, Willis D, Harle CA. Study protocol for a type III hybrid effectiveness-implementation trial to evaluate scaling interoperable clinical decision support for patient-centered chronic pain management in primary care. *Implement Sci.* 2022 Jul 15;17(1):44. doi: 10.1186/s13012-022-01217-4. PMID: 35841043; PMCID: PMC9287973.
7. **Nguyen, KA**, Wiisanen K, (2022). Patient-facing clinical decision support for pharmacogenomic precision medicine, in Boyce et al. *Clinical Decision Support for Pharmacogenomic Precision Medicine: Foundations and Implementation, Elsevier Science: AP*, pp:203-221. (*book chapter*)
8. Eadon MT, Cavanaugh KL, Orlando LA, Christian D, Chakraborty H, Steen-Burrell KA, Merrill P, Seo J, Hauser D, Singh R, Beasley CM, Fuloria J, Kitzman H, Parker AS, Ramos M, Ong HH, Elwood EN, Lynch SE, Clermont S, Cicali EJ, Starostik P, Pratt VM, **Nguyen KA**, Rosenman MB, Calman NS, Robinson M, Nadkarni GN, Madden EB, Kucher N, Volpi S, Dexter PR, Skaar TC, Johnson JA, Cooper-DeHoff RM, Horowitz CR; GUARDD-US Investigators. Design and rationale of GUARDD-US: A pragmatic, randomized trial of genetic testing for APOL1 and pharmacogenomic predictors of antihypertensive efficacy in patients with hypertension. *Contemp Clin Trials.* 2022 Jun 1:106813. doi: 10.1016/j.cct.2022.106813. Epub ahead of print. PMID: 35660539.
9. Huang, S., Yang, S., Ly, S. **Nguyen, K.A.** Clinical non-effectiveness of clopidogrel use for peripheral artery disease in patients with CYP2C19 polymorphisms: a systematic review. *Eur J Clin Pharmacol* (2022). <https://doi.org/10.1007/s00228-022-03346-7> (*senior author*)
10. Lo-Ciganic, W.-H., Hincapie-Castillo, J., Wang, T., Ge, Y., Jones, B. L., Huang, J. L., Chang, C.-Y., Wilson, D. L., Lee, J. K., Reisfield, G. M., Kwoh, C. K., Delcher, C., **Nguyen, K. A.**, Zhou, L., Shorr, R.

- I., Guo, J., Marcum, Z. A., Harle, C. A., Park, H., Winterstein, A., Yang, S., Huang, P.-L., Adkins, L., and Gellad, W. F. (2022) Dosing profiles of concurrent opioid and benzodiazepine use associated with overdose risk among US Medicare beneficiaries: Group-based multi-trajectory models, *Addiction*. doi: <https://doi.org/10.1111/add.15857>.
11. **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 in inpatient and outpatient care: a cognitive task analysis at a US Veterans Affairs Medical Center *BMJ Open* 2022;12:e052401. doi: 10.1136/bmjopen-2021-052401
12. Grande, K.J.; Dalton, R.; Moyer, N.A.; Arwood, M.J.; **Nguyen, K.A.**; Sumfest, J.; Ashcraft, K.C.; Cooper-DeHoff, R.M. Assessment of a Manual Method versus an Automated, Probability-Based Algorithm to Identify Patients at High Risk for Pharmacogenomic Adverse Drug Outcomes in a University-Based Health Insurance Program. *J. Pers. Med.* 2022, 12, 161. <https://doi.org/10.3390/jpm12020161>
13. 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> (senior author)
14. Schneider TM, Eadon MT, Cooper-DeHoff RM, Cavanaugh KL, **Nguyen KA**, Arwood MJ, Tillman EM, Pratt VM, Dexter PR, McCoy AB, Orlando LA, Scott SA, Nadkarni GN, Horowitz CR, Kannry JL. Multi-Institutional Implementation of Clinical Decision Support for APOL1, NAT2, and YEATS4 Genotyping in Antihypertensive Management. *J Pers Med.* 2021 May 27;11(6):480. doi: 10.3390/jpm11060480. PMID: 34071920; PMCID: PMC8226809.
15. **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.
16. 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>
17. **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>
18. **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.
19. 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.
20. **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.

CONFERENCE PODIUM (PEER-REVIEWED)

1. **Nguyen KA.** Outpatient Pharmacy. Case study: Improving Patient Outcome Through Digital Health. Digital Summit 2023. Florida Pharmacy Association. October 29 2023 (Online, Invited case discussion)
2. Militello L, Diulio J, Wilson D, **Nguyen KA**, Lo-Ciganic WH. Communicating Risk via an AI-Generated Alert. 67th International Annual Meeting of Human Factors and Ergonomics Society. 2023; October 23 – 27, Washington DC
3. **Nguyen KA**, Diulio J, Militello L, Wilson DL, Gellad WF, Lewis M, Hall B, Harle CA, Schmidt S, Nelson D, He X, Qin X, Budd JT, Meenrajan SR, Orlando FA, Pennington JM, Kuza C, Hasan M, Staras SA, Bian J, Wu Y, Weiss JC, Gordon AJ, Cochran J, Lo-Ciganic W. Design process for a machine-learning opioid overdose prediction and risk stratification e-tool (DEMONSTRATE). Oral presentation at 2023 AMIA Clinical Informatics Conference. Chicago, IL, USA, May 23-25, 2023.
4. Lo-Ciganic W, Hasan MM, Huang P-L, **Nguyen KA**, Wilson DL, Harle CW, Bian J, Wu Y, Weiss JC, Gordon AJ, Cochran G, Diulio J, Militello L, Staras SAS, Vouri SM, Budd JT, Meenrajan SR, Orlando FA, Pennington JM, Schmidt S, Lewis M, Kuza CC, Gellad WF. Developing and evaluating of a machine-learning opioid overdose prediction and risk stratification e-tool (DEMONSTRATE). 2023 AMIA Informatic Summit. March 13-16, Seattle, WA, USA.
5. **Nguyen KA**, Patel H, Savoy A, Diulio J, Militello LG, D'Silva D, Saleem JJ, Russ-Jara AL, Weiner M. Methods to Evaluate a Novel User Interface for a Health Information Exchange Tool Supporting Medication Reconciliation. Oral presentation at the 2023 International Symposium on Human Factor and Ergonomics in Health Care. Orlando, Florida, USA March 2023.
6. Patel H, Savoy A, Sanchez SL, Traylor M, **Nguyen KA**, Boockvar KS, et al. Clinicians' user experience with VA's health information exchange technologies: Think-aloud during simulated medication reconciliation. VA HSR&D-QUERI National Meeting; February or March; Probably somewhere in CONUS: United States Department of Veterans Affairs; 2023.
7. Patel H, Savoy A, **Nguyen KA**, Saleem JJ, Sanchez SL, Adjei EA, et al. Clinicians' strategies for organizing and reconciling medications from multiple VA and non-VA sources: Card-sorting study. VA HSR&D-QUERI National Meeting; February or March; Probably somewhere in CONUS: United States Department of Veterans Affairs; 2023.
8. **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.
9. **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.
10. 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.

11. **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)

Hagen AL, Kelly JR, Hook M, **Nguyen KA**. "Functionality Assessment of Gene-Disease Pharmacogenomic Clinical Decision Support (PGx-CDS) Implementation in a Clinical Practice Setting." Poster Presentation for the American Society of Hospital Pharmacists (ASHP) Midyear 2022, Las Vegas, NV, December 5 OR 6, 2022

Ravindra N, Desai N, Hall B, Eken E, **Nguyen KA**. "User Experience Evaluation of the Current Format for Clinical Pharmacogenomics Consult Documentation." Poster Presentation for the American Society of Hospital Pharmacists (ASHP) Midyear 2022, Las Vegas, FL, December 5, 2022

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). Phoenix, 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 (ACCP 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.

GRANTS

FUNDED/IN PROGRESS RESEARCH

Investigators: Julio Duarte (PI), **Khoa Nguyen**, (Co-Investigator, 2.5%)

Source: NIH/NHGRI R01

Project Title: Preemptive pharmacogenetic testing in the medically underserved population

Date: 2021-2026

Amount: \$3,869,911

Investigators: Christopher Harle (PI), Ramzi Salloum (Co-PI), **Khoa Nguyen**, Pharm.D (Co-I, 7.5%)

Source: AHRQ R21

Project Title: Scaling Interoperable Clinical Decision Support for patient-Centered Chronic Pain Care

Date: 9/2021 – 8/2024

Amount: \$2,952,700

Investigators: Julie Johnson, PharmD (PI), **Khoa Nguyen**, Pharm.D (Co-Investigator, 10%)

Source: NHGRI R01

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: Haesuk Park, PhD (PI); **Khoa Nguyen**, PharmD (Co-I, 10%)

Source: NIDA

Project Title: Assessing Performance of a Hepatitis C Emergency Department Screening Tool

Date: 9/2023 -7/2028

Amount \$702,307.00

PENDING RESEARCH PROPOSAL

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 6/2023

Investigators: Julio, Duarte, PharmD (PI); **Khoa Nguyen**, PharmD (Co-I, 5%)
 Source: NHGRI
 Project Title: Clinical Expansion of Precision Medicine in the Emergency Department
 Date: Submitted 3/2023

Investigators: Liu, Yiyang, Ph.D. (PI); **Khoa Nguyen**, PharmD (Co-I, 2.5%)
 Source: NIH
 Project Title: Formative and Pilot Intervention Research to Optimize HIV Prevention and Care Continuum Outcomes (R34)
 Date: 6/2023

Investigators: Hasan, Mahmudul, PhD (PI); **Khoa Nguyen**, PharmD (Co-I, 5%)
 Source: NIDA
 Project Title: Developing and Evaluating a Machine-Learning Buprenorphine Care Discontinuity Prediction E-tool (BUP-CARE)
 Date: 3/2023

COMPLETED RESEARCH

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

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: 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

TEACHING EXPERIENCE

COURSES

PHA6935: Pharmacy Informatics. 2023-present

3 credits. Online course. Course founder and coordinator

PHA5243: Introduction to Pharmacy Informatics. 2022-present

2 credits. Course founder and coordinator.

PHA7939: PTR Journal Club. 1 credit. Course coordinates 2019 - 2022

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

INVITED SEMINAR

Nguyen KA, “Medication data lifecycle” Indianapolis University, Department of Mathematics and Health Data, Nov 2nd 2022. (Online)

LECTURES

PHA6935: Clinical pharmacogenomics Implementation. “Clinical Decision Support” 1-hour lecture. 2021- present

PHA5012: Clinical Applications of Personalized Medicine. “Clinical informatics in Pharmacogenetics” 1-hour lecture. 2022-present

PHA5787C: Patient Care 5. “Health information technology for diabetes management” 1-hour lecture. 2022 - present

PHA5787C: Patient Care 5. “Root cause analysis” 1-hour lecture. 2022-present. 2022-present

PHA5784C: Patient Care 4. “Data Quality in Clinical Decision Supports” 1-hour lecture. 2019-present

PHA5878C: Patient Care 3. “Health information technology and informatics” 1-hour lecture. 2019-present

“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

HONORS AND AWARDS

Best Research Paper of 2022 by Purdue University College of Pharmacy	2023
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 Virtue training, Epic Contact hours: 4 hours	2/21, 2020
BestPractice Advisories – Basics Virtue training, Epic Contact hours: 12 hours	1/13 – 1/14, 2020
Mentor Training Session Regenstrief Institute, IUPUI, Indianapolis, IN Contact hours: 10 hours (3 sessions)	5/29, 6/4, 6/26, 2019
Early Career Faculty Program AACP PharmEd18 and PharmEd19 Contact hours: 8 hours	2018, 2019
Biostatistics for Health Care Researchers: A short course Indiana University, IN Contact hours: 15 hours	11/14 - 11/16, 2017
Designing, Analyzing, and Skillfully Synthesizing Quantitative and Qualitative Results from Mixed Methods Studies Regentrief Institute, IN Contact hours: 18 hours	7/11 - 7/13, 2017
Scientific Writing from the Reader’s Perspective IUPUI, Indianapolis, IN Contact hours: 14 hours	12/6 - 12/7, 2016
Write Winning Grant Proposals IUPUI, Indianapolis, IN Contact hours: 7 hours	8/30, 2016
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

Indiana University Purdue University at Indianapolis (IUPUI)

Indianapolis, IN

1 semester long, 3 credits course

1/2016 – 4/2016:

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,
First Databank, San Francisco, California

10/2014

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

8/2014

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

8/2014

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

4/2014

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

12/2013

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

10/2013

MICHR: Kenya Global Summer Research,
Michigan League, University of Michigan

11/2012

ADDITIONAL RESEARCH EXPERIENCE

Pharmacokinetic study of bupropion hydrochloride product with different release patterns

11/2012-11/2014

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 (KEMU), Meru, Kenya

5/2012 – 8/2012

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**

6/2014 – 7/2014

Pharmaceutical Industry

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

5/2014 – 6/2014

Ambulatory Care

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 <i>Clinical Inpatient</i> Preceptor: Rose Sohraby, Pharm.D.	1/2014 – 4/2014
Oakwood Hospital, Dearborn, Michigan <i>Institutional</i> Preceptor: Gladys Dabaja, Pharm.D., Manager	1/2013/ - 12/2013
Walgreens Pharmacy, Ypsilanti, Michigan <i>Community Pharmacy</i> Preceptor: Bradley Koselke, R.Ph.	1/2013 – 4/2013

PROFESSIONAL EXPERIENCES

Carepoint Pharmacy, Inc., Stockton, California <i>Pharmacy Technician</i> Preceptor: Brian Nguyen, R.Ph., MBA, CEO	9/2009 – 8/2011
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LEADERSHIP EXPERIENCES

Student National Pharmaceutical Association (SNPhA) <i>Executive Board: Treasurer 2013 – 2014</i>	2012 – 2014
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- 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
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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 Student pharmacist	1/2013 – 5/2014
Sam's Club Health Fair, Ypsilanti, Michigan Student pharmacist on behalf of SNPhA	3/2014
Coalition on Temporary Shelter Health Fair, Detroit, Michigan Student pharmacist on behalf of SNPhA	10/2012, 10/2013
Oakland County Health Fair, Southfield, Michigan Student pharmacist on behalf of SNPhA and Wayne County Pharmacists Association	9/2012, 9/2013
American Cancer Society – Relay For Life, Ann Arbor, Michigan	4/2012, 4/2013

Student pharmacist on behalf of SNPhA and PDC