

CHENG PENG, MPA, MS, PhD

Research Assistant Professor
Division of Pharmaceutical Evaluation and Policy
University of Arkansas for Medical Sciences College of Pharmacy
4301 W. Markham St., #522
Little Rock, AR 72205
Office: 501-214-2110

EDUCATION & CREDENTIALS

Doctor of Philosophy in Human Development & Family Studies (HDFS) - 2017
Iowa State University, Iowa, U.S.

Master of Science in Statistics - 2015
Iowa State University, Iowa, U.S.

Master of Public Administration - 2011
Iowa State University, Iowa, U.S.

CERTIFICATES

Healthcare Analytics Certificate - 2025
University of Arkansas for Medical Sciences, Arkansas, U.S.

Certificate in Cogito - 2019
Epic University, Wisconsin, U.S.

Certificate in Clarity Data Model - 2019
Epic University, Wisconsin, U.S.

Certificate in Caboodle Data Model - 2019
Epic University, Wisconsin, U.S.

Certificate in Quantitative Psychology - 2017
Iowa State University, Iowa, U.S.

Certificate in Advanced Research Design and Methods - 2016
Iowa State University, Iowa, U.S.

POSITIONS

Research Assistant Professor

Division of Pharmaceutical Evaluation & Policy
College of Pharmacy
University of Arkansas for Medical Sciences; Little Rock, Arkansas
August 2020-Present

Population Health Data Analyst

McFarland Clinic; Ames, Iowa
July 2019-May 2020

Statistical Research Analyst

Iowa Finance Authority; Des Moines, Iowa
October 2017- June 2019

Research Associate & Data Manager

Department of Psychology
College of Liberal Arts and Sciences
Iowa State University; Ames, Iowa
September 2017-July 2018

Research Assistant

Iowa Department of Human Services
Child Welfare Research and Training Project
Iowa State University; Ames, IA
February 2012-May 2017

Research Assistant

Department of Human Development and Family Studies
College of Human Sciences
Iowa State University; Ames, IA
June 2015-June 2016

Teaching Assistant

Department of Human Development and Family Studies
College of Human Sciences
Iowa State University; Ames, IA
January 2015-May 2015

Research Assistant

Iowa Workforce Development
Department of Statistics
College of Liberal Arts and Sciences
Iowa State University; Ames, IA
January 2011-December 2011

TEACHING

Graduate Student Curriculum

PSGP 5116 Research Methods in Pharmaceutical Evaluation and Policy (2022-present). College of Pharmacy, University of Arkansas for Medical Sciences.

Lectures: Retrospective Data Sources, Survey Research, Probability Sampling Techniques, Nonresponse Topics.

Graduate Student Committee Member

Shrikhande, Mriga M.S. Graduated Fall, 2023
Thesis: Costs and utilization among SGLT-2 inhibitor and GLP-1 agonist users diagnosed with type-2 diabetes and CVD: A retrospective analysis of commercially insured patients

Additional Mentoring

Pandit, Ambrish PhD Student in Pharmaceutical Evaluation and Policy
Providing mentorship through weekly meetings focused on secondary data analysis and cohort study design through my IDHI-funded project
Research Project: Implementation of patient safety bundles developed by the Alliance for Innovation on Maternal Health
Role: Primary Mentor 2022

Shrikhande, Mriga MS Student in Pharmaceutical Evaluation and Policy
Providing mentorship through weekly meetings focused on secondary data analysis and cohort study design through my IDHI-funded project
Research Project: Assessing patient satisfaction with telemedicine services within the High-Risk Pregnancy Program
Role: Primary Mentor 2023

Khattab, Batool PhD Student in Pharmaceutical Evaluation and Policy
Providing mentorship through weekly meetings focused on secondary data analysis and cohort study design through my IDHI-funded project
Research Project: Evaluating the current status of implementation of maternal safety bundles in Arkansas
Role: Primary Mentor 2023-Present

RESEARCH

Peer-Reviewed Publications

Jones, C. D., **Peng, C.**, Jones, R. D., Smith, D., Leal, K., Leal, M., ... & Eswaran, H. (2025). Assessing the Impact of Telehealth Lactation Support on Initiating and Sustaining Breastfeeding Among Medicaid Patients. *Telemedicine and e-Health*, 31(11), 1318-1326.

Peng, C., Acharya, M., Khattab, B., Callaghan-Koru, J. A., Brown, D., Perkins, R., & Eswaran, H. (2025). Evaluating the implementation of maternal safety bundles for obstetric hemorrhage and severe hypertension during pregnancy in Arkansas. *BMC Pregnancy and Childbirth*, 25(1), 793.

DelNero, P., Schootman, M., **Peng, C.**, Saini, M., Hallgren, E., Laryea, J., & Li, C. (2025). Colorectal cancer survival disparities in persistent poverty areas. *The Journal of Rural Health*, 41(3), e70045.

Golden, W., **Peng, C.**, Shoptaw, E. J., Painter, J., Dare, R., Thomas, J., ... & Johnson, J. (2025). Measurement of Practice-Level Antibiotic Utilization in a Medicaid Patient-Centered Medical Home Program. *The Annals of Family Medicine*, 23(5), 407-411.

Dayer LE, **Peng C**, Williams AJ, Luciani L, Lowery J, Butterfield B, Painter JT. Factors contributing to potential opioid prescribing at surgical discharge. Accepted November 28, 2024. *Journal of Surgical Research*.

Greder, K., Zhang, D., **Peng, C.**, & Oswald, R. F. (2024). Relationship between coparent communication and teamwork, food insecurity, and depressive symptoms among rural low-income mothers. *Journal of Rural Mental Health*.

Smith, A. M., **Peng, C.**, Porter, A., & Martin, B. C. (2024). The role of prescribed controlled substance acquisition as potential triggers of opioid overdose: A case-crossover study. *International Journal of Drug Policy*, 134, 104620.

Baltz, A. P., **Peng, C.**, Gressler, L., Bhatti, S., & Lewis, K. (2024). Association Between Medical Marijuana Cardholder Status and Antiemetic Overuse. *Cannabis and Cannabinoid Research*.

Li, C., **Peng, C.**, DelNero, P., Laryea, J., Ramirez Aguilar, D., Koru, G., ... & Schootman, M. (2024). Investigating the coverage of the Arkansas All-Payer Claims Database for examining health disparities related to persistent poverty areas in colorectal cancer patients. *Cancer Causes & Control*, 1-18.

Li, C., **Peng, C.**, DelNero, P., Saini, M., & Schootman, M. (2024). Sampling coverage of the Arkansas all-payer claims database by County's persistent poverty designation. *Health Services Research*, 59(4), e14342.

Painter, J. T., **Peng, C.**, Burlette, M., Clement, C., Luciani, L., Azhar, G., & Dayer, L. (2024). The Effect of Concurrent Use of Opioids and Gabapentin on Fall Risk in Older Adults. *Journal of Pain & Palliative Care Pharmacotherapy*, 1–7.

Jones, R. D., **Peng, C.**, Jones, C. D., Long, B., Helton, V., & Eswaran, H. (2024). Cellular-Enabled Remote Patient Monitoring for Pregnancies Complicated by Hypertension. *Cardiovascular Digital Health Journal*.

Jones, R. D., **Peng, C.**, Odom, L., Moody, H., & Eswaran, H. (2023). Use of Cellular-Enabled Glucometer for Diabetes Management in High-Risk Pregnancy. *Telemedicine Reports*, 4(1), 307-316.

D. Jones, R., Allison, M. K., Moody, H., **Peng, C.**, & Eswaran, H. (2023). Use of Cellular-Enabled Remote Patient Monitoring Device for Hypertension Management in Pregnant Women: A Feasibility Study. *Maternal and Child Health Journal*, 27(7), 1191-1198.

Mavros, M.N., Johnson, L.A., Schootman, M., Orcutt, S.T., **Peng, C.**, Martin, B.C. (2023). Adherence to Extended Venous Thromboembolism Prophylaxis and Outcomes After Complex Gastrointestinal Oncologic Surgery. *Annals of Surgical Oncology*, 1-10.

Acharya, M., Zorn, K. K., Simonson, M. E., Bimali, M., Moore, G. W., **Peng, C.**, & Martin, B. C. (2022). Statewide trends and factors associated with genetic testing for hereditary cancer risk in Arkansas 2013–2018. *Hereditary Cancer in Clinical Practice*, 20(1), 1-11.

Greder, K. A., **Peng, C.**, Doudna, K. D., & Sarver, S. L. (2017, October). Role of family stressors on rural low-income children’s behaviors. In *Child & Youth Care Forum* (Vol. 46, pp. 703-720). Springer US.

Abstracts

Peng, C., Smith, A., Porter, A., & Martin, B. (2024). PCR224 Development and Validation of a Tool to Predict Short Term Opioid Overdose Risk after Acquiring a Prescribed Controlled Substance. *Value in Health*, 27(6), S337.

Peng, C., DeYoung, O., & Williams, A. (2024). EE228 A Return on Investment Evaluation of the Bariatric Surgery. *Value in Health*, 27(6), S98-S99.

Baltz, A., **Peng, C.**, Gressler, L. E., Bhatti, S. A., & Lewis, K. (2023). Exploring the association between medical marijuana cardholder status and antiemetic overuse. *Journal of Clinical Oncology* 41 (16_suppl), e18812-e18812

Peng, C., Dayer, L., Williams, A., Luciani, L., Lowery, J., Butterfield, B., & Painter, J. T. (2023). CO90 Correlation between Length of Surgery and Opioid Overprescribing at Hospital Discharge. *Value in Health*, 26(6), S31.

Smith, A., **Peng, C.**, Porter, A., & Martin, B. (2023). EPH37 The Role of Prescribed Controlled Substance Acquisition As Potential Triggers of Opioid Overdose: A Case-Crossover Study. *Value in Health*, 26(6), S170.

Johnson, J., **Peng, C.**, Dare, R. K., Painter, J. T., Maples, H., Thomas, J., ... & Golden, W. (2022, December). 933. Antibiotic Prescribing Changes in Adults During COVID-19 in Outpatient Patient-Centered Medical Homes (PCMH) in Arkansas. In *Open Forum Infectious Diseases* (Vol. 9, No. Supplement_2, pp. ofac492-778). US: Oxford University Press.

Peng, C., Zorn, K. K., Acharya, M., Bimali, M., & Martin, B. C. (2022). EPH111 Factors Associated with Cancer Prevention Surgeries for Hereditary Cancer Risk in Arkansas 2013-2018. *Value in Health*, 25(7), S455.

Peng, C., Dayer, L., Burlette, M., Clement, C., Azhar, G., & Painter, J. T. (2022). EPH44 Relationship between Concurrent Use of Opioids and Gabapentin and Falls Among Older Adults with Chronic Opioid Therapy. *Value in Health*, 25(7), S442.

Thomas, J., **Peng, C.**, Johnson, J. T., Maples, H., Teeter, B., Painter, J., ... & Golden, W. (2022). Impact of COVID on Antibiotic Prescribing Patterns in a Medicaid Population. *JACCP Journal of the American College of Clinical Pharmacy*, 770-770.

Other Research or Report

Deyoung, O., **Peng, C.** (2021). Bariatric Surgery Pilot: Executive Summary. Submitted to Arkansas Division of Employee Benefits.

Forcier, C., Melby, J. N., Fletcher, C. N., Zhang, D., **Peng, C.**, Obrecht, J., Thill, S., McNeely, R., & Tesar, C. (2015, September). Partnership to Strengthen Families: Mapping the Future of Paternity Establishment through GIS. Section 1115 Demonstration Grant: CFDA 93.564. Final Report for HHS-2011-AFC-OCSE-FD-0155). Administration for Families and Children: Office of Child Support Enforcement, U.S. Department of Health and Human Services.

Peng, C., Zhang, D., Fletcher, C., & Melby, J. (2014). Instruction Manual for Mapping the Future of Paternity Establishment through GIS. Submitted to Administration for Families and Children: Office of Child Support Enforcement, U.S. Department of Health and Human Services, Des Moines, IA.

Peng, C., Zhang, D., Wang, E., Melby, J. (2016). Case/payment prioritization project report. Submitted to Administration for Families and Children: Office of Child Support Enforcement, U.S. Department of Health and Human Services, Des Moines, IA.

Peng, C., Zhang, D., Wang, E., Melby, J. (2017). Case/payment Model Evaluation Procedure. Submitted to Administration for Families and Children: Office of Child Support Enforcement, U.S. Department of Health and Human Services, Des Moines, IA.

Peng, C., Melby, J. (2016). Toggl Feasibility Study Entry Report. Submitted to Administration for Families and Children: Office of Child Support Enforcement, U.S. Department of Health and Human Services, Des Moines, IA.

Peng, C., Shelley, M., Zhang, D., Igbokwe, J. (2011). Effects of Unemployment on Family and Friends: A Structural Equation Modeling Approach. Submitted to Iowa Workforce Development, Des Moines, IA.

Conference Presentations - Regional, National or International

Lewis, K.N., McKelvey, L.M., **Peng, C.**, Torres Costa Lino, T., Fitzgerald, S. (2025, Nov). Impact of Virtual and In-Person Hybrid Home Visiting Programs on Healthcare Utilization During the COVID-19 Pandemic, NAPCRG Annual Meeting, Atlanta, GA.

Lewis, K.N., McKelvey, L.M., **Peng, C.**, Fitzgerald, S., Torres Costa Lino, T. Impact of Virtual and In-Person Hybrid Home Visiting Programs on Healthcare Utilization During the COVID-19 Pandemic, UAMS Family Medicine Research Symposium, Little Rock AR, June 2025

DelNero, P., Schootman, M., **Peng, C.**, Saini, M., Hallgren, E., Laryea, J., & Li, C. (2025, May). Colorectal Cancer Survival Disparities in Persistent Poverty Areas was presented at the UAMS Cancer Institute Retreat, Little Rock, AR.

Peng, C., Smith, A., Porter, A., & Martin, B. (2024). Development and Validation of a Tool to Predict Short Term Opioid Overdose Risk after Acquiring a Prescribed Controlled Substance was presented at the International Society for Pharmacoeconomics and Outcomes Research International Conference, Atlanta, GA.

Peng, C., DeYoung, O., & Williams, A. (2024). A Return on Investment Evaluation of the Bariatric Surgery was presented at the International Society for Pharmacoeconomics and Outcomes Research International Conference, Atlanta, GA.

Baltz, A., **Peng, C.**, Gressler, L. E., Bhatti, S. A., & Lewis, K. (2023, June). Exploring the association between medical marijuana cardholder status and antiemetic overuse was presented at the American Society of Clinical Oncology Annual Meeting, Chicago, IL.

Peng, C., Dayer, L., Williams, A., Luciani, L., Lowery, J., Butterfield, B., & Painter, J. T. (2023, May). Correlation between Length of Surgery and Opioid Overprescribing at Hospital Discharge was presented at the International Society for Pharmacoeconomics and Outcomes Research International Conference, Boston, MA. *Value in Health*, 26(6), S31.

Smith, A., **Peng, C.**, Porter, A., & Martin, B. (2023). The Role of Prescribed Controlled Substance Acquisition As Potential Triggers of Opioid Overdose: A Case-Crossover Study was presented at the International Society for Pharmacoeconomics and Outcomes Research International Conference, Boston, MA. *Value in Health*, 26(6), S170.

Mavros, M.N., Johnson, L.A., Orcutt, S.T., **Peng, C.**, Martin, B.C. (2023, Mar) Adherence to and outcomes of extended venous thromboembolism prophylaxis after complex gastrointestinal cancer surgery. SSO 2023 International Conference on Surgical Cancer Care, Boston, MA.

Johnson, J., **Peng, C.**, Dare, R., Painter, J.T., Maples, H., Thomas, J., Teeter, B., Shoptaw, EJ, & Golden, W. (2022, October). Antibiotic prescribing changes in adults during COVID-19 in outpatient patient-centered medical homes (PCMH) in Arkansas was presented at IDWeek 2022, Washington DC.

Maples, H., **Peng, C.**, Painter, J.T., Dare, R., Johnson, J., Thomas, J., Shoptaw, EJ, & Golden, W. (2022, June). The impact of COVID-19 on pediatric antimicrobial prescribing in primary care medical homes in Arkansas was presented at the Pediatric Antimicrobial Stewardship Conference. St. Louis, MO.

Peng, C., Zorn, K. K., Acharya, M., Bimali, M., & Martin, B. C. (2022, May). Factors Associated with Cancer Prevention Surgeries for Hereditary Cancer Risk in Arkansas 2013-2018 was presented at the International Society for Pharmacoeconomics and Outcomes Conference, Washington, DC.

Peng, C., Dayer, L., Burlette, M., Clement, C., Azhar, G., & Painter, J. T. (2022, May). Relationship between Concurrent Use of Opioids and Gabapentin and Falls Among Older Adults with Chronic Opioid Therapy was presented at the International Society for Pharmacoeconomics and Outcomes Conference, Washington, DC.

Thomas, J., **Peng, C.**, Johnson, J., Maples, H., Teeter, B., Painter, J.T., Dare, R., Shoptaw, EJ, & Golden, W. (2022, May). Impact of COVID on antibiotic prescribing patterns in a Medicaid population was presented at the ACCP Virtual Poster Session.

Burlette, MA, Clement, C., Painter, J.T., **Peng, C.**, Azhar, G., Dragic, L., & Dayer, L. (2021, September) The effect of concurrent use of opioids and gabapentin on fall risk in older adults. Poster presented at the 2021 AAHP Fall Seminar.

Peng, C. & Gudmunson, C. G., Zhang, D. (2017, November). Work-family Processes and Adolescent Externalizing Behavior. Paper presented at the annual meeting of the National Council of Family Relations, Orlando, FL.

Peng, C. & Gudmunson, C. G. (2016, November). Effect of negative work-to-family spillover on adolescent externalizing behavior via parental stress and parent involvement among single and partnered working mothers. In C. G. Gudmunson (Chair), *Family processes and adolescent externalizing behavior*. Symposium at the annual meeting of the National Council of Family Relations, Minneapolis, MN.

Peng, C., Zhang, D., Fletcher, C., Melby, J., Forcier, C. (2015, August). *Enhancing Paternity Establishment: Results and Implications from a 2011-2015 University Partnership Project*. Presentation presented at the National Association for Welfare Research & Statistics (NAWRS)

Annual Workshop, Atlanta, GA.

Fletcher, C., Melby, J., Prins, C., **Peng, C.**, Zhang, D., Obrecht, J. (2014, November). *New Approach to the Challenges of Paternity Establishment and Child Support Collection and Their Impacts*. Paper presented at Association for Public Policy Analysis & Management (APPAM) Fall Research Conference, Albuquerque, NM.

Melby, J., Fletcher, C., Prins, C., **Peng, C.**, Zhang, D., Obrecht, J. (2014, April). *An Innovative Agency-University Partnership to Improve Paternity Establishment in Iowa*. Poster presented at Society for Research in Child Development (SRCD) Special Topic Meeting, Alexandria, VA.

Fletcher, C., Melby, J., Forcier, C., **Peng, C.**, Zhang, D., Obrecht, J. (2013, November). *Using Multiple Methods to Improve Paternity Establishment in Iowa*. Presentation presented at Association for Public Policy Analysis & Management (APPAM) Fall Research Conference, Washington D.C.

Peng, C., Zhang, D., Fletcher, C., Melby, J., Forcier, C. (2013, August). *Improving Child Support Enforcement through Paternity Establishment*. Presentation presented at the National Association for Welfare Research & Statistics (NAWRS) Annual Workshop, Chicago, IL.

Colloquia and Internal Presentations - State and Local

Peng, C., Zhang, D., Wang, E., Melby, J. (2017, April). *Creating a New Approach to Contacting Child Support Payors*. Poster presentation at the Human Development and Family Studies Colloquium. Iowa State University, Ames, IA.

Peng, C., Gudmunson, C., Zhang, D. (2015, April). *Association between parental psychological control and child delinquency: The mediating role of school engagement*. Poster presentation at 2nd Annual Graduate and Professional Student Research Conference. Iowa State University, Ames, IA.

Peng, C., Zhang, D., Melby, J., Fletcher, C. (2015, April). *Does It Make a Difference? Data Selection for Modeling Paternity Establishment*. Poster presentation at the Human Development and Family Studies Colloquium. Iowa State University, Ames, IA.

Peng, C., Zhang, D., Melby, J., Fletcher, C., Forcier, C., Obrecht, J. (2014, April). *An University-Agency Partnership to improve Paternity Establishment in Iowa*. Poster presentation at the Human Development and Family Studies Colloquium. Iowa State University, Ames, IA.

Other Presentations

Work-Family Processes and Adolescent Externalizing Behavior. Presentation to Division of Pharmaceutical Evaluation & Policy Seminar. October 30, 2020.

Concepts and Techniques for Record Linkage. Presentation to Division of Pharmaceutical Evaluation & Policy Seminar. November 5, 2021.

Grants and Contracts

Grants

Rural Research Award Program (Chenghui Li – PI) 2024-2025
Assessing the Burden of Colorectal Cancer Mortality and Potential Risk Factors in Persistent Poverty Counties Compared to Other Counties in Arkansas
Total Cost: \$100,000
Role: Co-investigator

American Cancer Society (Chenghui Li – PI) 2023-2024
Impact of Affordable Care Act on Racial Disparity in Endocrine Therapy Use in Breast Cancer
Total Cost: \$220,000
Role: Biostatistician

UAMS Translational Research Institute (Mario Schootman – PI) 2023-2024
Assessing the quality of the linked Arkansas All-Payer Claims Database and Arkansas Cancer Registry data
Total Cost: \$25,000
Role: Co-investigator

Arkansas Department of Health (Lorraine McKelvey – PI) 2022-2024
Using the Arkansas All-Payer Claims Database to understand in-person and virtual parenting education provided in the home
Total Cost: \$1,468,229
Role: Co-investigator

273916 Arkansas Foundation for Medical Care (Martin – PI) 2022-2023
An exploration of Prescribed Controlled Substances as Opioid Overdose Triggers: An analysis of linked statewide Prescription Drug Monitoring Program (PDMP), Emergency Department, Inpatient and Death Certificated Data
Total Cost: \$54,947
Role: Co-investigator

UAMS Translational Research Institute (Kanna Lewis – PI) 2022-2023
Team Science Voucher: Exploring the Association between Medical Marijuana Status and Antiemetic Overuse
Total Cost: \$20,000
Role: Co-Investigator

PEW and Arkansas Department of Health (William Golden – PI) 2021-2023
Evaluation of the Arkansas Medicaid Antibiotic Prescribing Program

Total Cost: \$140,000
Role: Co-investigator

UAMS Translational Research Institute (Zorn, Martin – CoPIs) 2020-2021
Assessing Statewide Variation in Hereditary Cancer Care Utilization in Arkansas
Total Cost: \$49,992
Role: Co-investigator

Contracts

High-Risk Pregnancy Program evaluation. Contract with UAMS Institute for Digital Health & Innovation (IDHI). 2020-Present
Annual Total Cost: \$50,992

Manufacturer Rebate Management Program. Contract with Evidence-Based Prescription Drug Program (EBRx) within the UAMS College of Pharmacy. 2020-Present
Annual Total Cost: \$45,000

Grants Submitted

NIH Research Project Grant (R01) (Schootman, Mario – PI)
Development of unbiased internally and externally validated prediction models to identify colorectal cancer patients at high risk for readmission and ED visits.
Total Cost: \$3,423,808
Role: Co-investigator

SERVICE

Pharmacy Practice Postgraduate Training Committee 2023-2024
UAMS College of Pharmacy

PhD and MS Admissions Committee 2023-2024
Pharmaceutical Evaluation and Policy, UAMS College of Pharmacy

Biostatistician Search Committee 2022-2023
Pharmaceutical Evaluation and Policy, UAMS College of Pharmacy

PhD and MS Admissions Committee 2021-2022
Pharmaceutical Evaluation and Policy, UAMS College of Pharmacy

ORGANIZATIONAL MEMBERSHIPS

International Society of Pharmaceutical Outcomes Research

AcademyHealth

HONORS AND AWARDS

1st Place Poster, 2021 Arkansas Association of Health-System Pharmacists Annual Fall Seminar (2021)

Academic Scholarship, College of Human Sciences, Iowa State University (2016)

Academic Scholarship, College of Human Sciences, Iowa State University (2015)

Alice Ford FCS Scholarship, College of Human Sciences, Iowa State University (2014)

Bonnie Lee Parkison Graduate Scholarship, College of Human Sciences, Iowa State University (2013)

Academic Excellence Scholarship, College of Human Sciences, Iowa State University (2012)