WILLIAM PATERSON UNIVERSITY
Department of Economics, Finance and Global Business • Cotsakos College of Business
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Feb 5, 2024

Rahi Abouk, Ph.D.
Department of Economics, Finance, and Global Business
Cotsakos College of Business
William Paterson University of New Jersey
300 Pompton Road, Wayne, NJ, 07470
Email: aboukr@wpunj.edu
Cell: 414-334-4670

Dear member of the Selection Committee,

I am writing to apply for the NBER mentoring program to support NSF grant proposal development by faculty members at minority-serving institutions. I have a Ph.D. in Economics and am an Associate Professor in the Department of Economics, Finance, and Global Business at the Cotsakos College of Business at William Paterson University of New Jersey (WPU). I am also the Director of the Cannabis Research Institute (CRI), a drug policy research center focused on conducting evidence-based and data-driven research on cannabis.

My research interests are in applied microeconomics and health economics, exploring how supply-side and demand-side economic and health policies impact health behaviors and outcomes. I am particularly interested in the economic implications of changes in health behaviors driven by policy changes and environmental shocks. As such, I investigate the effect of policies targeting markets for cannabis, opioids, electronic and conventional cigarettes, and alcohol. Other lines of my research focus on understanding the role of healthcare technology on demand for medications and its impact on health outcomes, the consequences of service disruptions in healthcare facilities due to cyber-attacks, and the burden of school shootings on the healthcare sector.

In the following, I provide a list of previous grant applications to federal agencies (funded and not yet funded) and the contact information for the Dean of the Cotsakos College of Business:

- "Can Mandatory Electronic Prescriptions Reduce Opioid Abuse?", co-Principal Investigator (joint with David Powell, RAND), National Institute on Drug Abuse R21DA045983, 05/01/2019-04/30/2022, $463,313 (completed).
- "Understanding the Consequences of Major Information Disruptions in Hospitals," Principal Investigator (joint with David Powell, RAND), Agency for Healthcare Research and Quality R01HS028994, 07/01/2024-06/30/2029, $1,974,466 (discussed with impact score 37).
- "Reconciling the Relationship between Legalization of Cannabis and Adolescent Use: The Importance of Policy Enforcement," Principal Investigator, National Institute on Drug Abuse R01DA058793, 09/01/2024-08/31/2028, $1,943,299 (pending)

- "How is Cannabidiol Policy Impacting Substance Use?", co-Investigator (Site PI), National Institute on Drug Abuse R21, 04/01/2024-03/31/2026, (pending)

Contact Information for the Dean of the Cotsakos College of Business:
Antony Bowrin, Ph.D.
Email: bowrina@wpunj.edu
Phone: 973-720-2964
Address: 1600 Valley Road, Room 4056, Wayne, NJ, 07470

Sincerely,

Rahi Abouk

Introduction: Access to primary care physicians has a significant impact on improving health outcomes. [1,2] However, there exists a long history of substantial disparities in access to quality care between the White and Black populations in the United States[3,4], suggesting that the health gap between these two groups has historical roots. This is while, racial concordance is reported to result in improved communication[5] and trust[6] between the patient and physician, leading to more favorable health outcomes.[7] Research suggests that minority patients are more likely to go to minority physicians.[8] Therefore, one could argue that the availability of primary care minority physicians may play a crucial role in increasing life expectancy among minority groups such as the Black population. Although prior research investigated the link between the gap in access to primary care physicians, racial concordance, and health outcomes among the Black versus White population, less is known about the historical roots and precedents of such disparities in access to care in the early twentieth century.

This proposal aims to investigate the short-term and long-term effects of standardizing medical education in medical schools in the U.S. following 1910 Abraham Flexner's recommendations, which led to the shutdown of several medical schools across the nation.[9] These closures reduced the number of operational medical schools and trained physicians in the early decades of the twentieth century with a more severe effect on the Black population as five out of seven predominantly Black medical schools were shut down after the report came out.[10,11] Estimates suggest that if these medical schools were not closed, they would have been able to train 28,000-35,000 more Black physicians as of 2019.[12] Although the average quality of medical education might have improved after Flexner's report, given that only certain institutions offering higher quality training remained operational, it may have had some overlooked and long-lasting effects on the healthcare landscape for the Black population.

Method: I propose to study the short-term and long-term impacts of the Flexner report on the number of physicians (access to primary care) in the U.S. and its effect on health outcomes (i.e., mortality rates). To do so, I will first digitize the American Medical Association Deceased Physicians Card Files, which include the following information about every deceased American physician: first name, last name, medical school attended, graduation year, state(s) of practice, date of death, and cause of death. The digitization will be done in collaboration with an artificial intelligence company, creating the first digitized historical database of physicians who practiced in the U.S. before the mid-1900s. This database will be made publicly available to researchers for other research purposes. Currently, the database is available in nondigitized format through the National Library of Medicine and two book volumes[13] (for years before 1930). To cross-check this data, I will match the first name, last name, and occupation of the deceased physicians with the information available in the restricted-use 1850-1950 full count U.S. Census microdata.[14] This will help identify time-invariant demographic information such as race and the county of residence. From this database, I create an aggregated dataset of the number of physicians at the state-year-medical school and state-year levels for the 1900-1950 period. The county-level version of this aggregated dataset will also be created. The aggregated data at the state-year-medical school level allows me to test if the closure of certain medical schools led to a decline in the number of physicians post-1910 graduated from those particular medical schools. I then will link the constructed state-level physicians database to vital statistics (i.e., mortality data) and test whether the potential decline in physicians post-1910 affects health outcomes by race. Some states did not report annual mortality rates for Blacks in the early years post-1900. To tackle this issue, I will also construct the 10-year mortality rates for different age-race-gender-state of birth groups following Lleras-Muney (2005).[15] The analysis will be done using difference-in-differences and event study methodologies in which the treatment variable is defined by interacting the state-level 1900-1909 average Black population by a dummy variable set to one for years post-1910, hypothesizing that states with a higher Black population before the Flexner report would more severely affected by a potential decline in Black physicians. I also propose to study the long-term effect of medical school closures using the Health and Retirement Study, a longitudinal survey of Americans born in the early decades of the twentieth century. In all analyzes, I also control for other related state-level policies such as other laws on physician licensing and education-related requirements and midwifery laws, and women's suffrage laws.[16,17]

Results from the proposed research will improve our understanding of the effect of the American medical school standardization that occurred in the early twentieth century on Americans' health and health disparities. They will also provide insights on strategies for reducing the health gap between White and minority Americans.

Reference:

1. Basu S, Berkowitz SA, Phillips RL, Bitton A, Landon BE, Phillips RS. Association of primary care physician supply with population mortality in the United States, 2005-2015. *JAMA internal medicine.* 2019;179(4):506-514.
2. Shi L, Macinko J, Starfield B, Politzer R, Xu J. Primary care, race, and mortality in US states. *Social science & medicine.* 2005;61(1):65-75.
3. Bach PB, Pham HH, Schrag D, Tate RC, Hargraves JL. Primary care physicians who treat blacks and whites. *New England Journal of Medicine.* 2004;351(6):575-584.
4. Schneider EC, Zaslavsky AM, Epstein AM. Racial disparities in the quality of care for enrollees in Medicare managed care. *Jama.* 2002;287(10):1288-1294.
5. Ye H, Yi J. Patient-Physician Race Concordance, Physician Decisions, and Patient Outcomes. *Review of Economics and Statistics.* 2023;105(4):766-779.
6. Alsan M, Wanamaker M. Tuskegee and the health of black men. *The quarterly journal of economics.* 2018;133(1):407-455.
7. Greenwood BN, Hardeman RR, Huang L, Sojourner A. Physician–patient racial concordance and disparities in birthing mortality for newborns. *Proceedings of the National Academy of Sciences.* 2020;117(35):21194-21200.
8. Saha S, Taggart SH, Komaromy M, Bindman AB. Do Patients Choose Physicians Of Their Own Race? To provide the kind of care consumers want, medical schools might be able to justify using race as an admissions criterion. *Health affairs.* 2000;19(4):76-83.
9. Flexner A. Medical education in the United States and Canada. *Science.* 1910;32(810):41-50.
10. Hunt S. The Flexner Report and black academic medicine: an assignment of place. *Journal of the National Medical Association.* 1993;85(2):151.
11. Kessel RA. The AMA and the Supply of Physicians. *Law & Contemp Probs.* 1970;35:267.
12. Campbell KM, Corral I, Linares JLI, Tumin D. Projected estimates of African American medical graduates of closed historically Black medical schools. *JAMA network open.* 2020;3(8):e2015220-e2015220.
13. Hafner AW, Association AM. *Directory of Deceased American Physicians, 1804-1929: A Genealogical Guide to Over 149,000 Medical Practitioners Providing Brief Biographical Sketches Drawn from the American Medical Association's Deceased Physician Masterfile.* American Medical Association; 1993.
14. Steven Ruggles CAF, Ronald Goeken, J. David Hacker, Matt A. Nelson, Evan Roberts, Megan Schouweiler, and Matthew Sobek. . IPUMS Ancestry Full Count Data: Version 3.0 [dataset]. In. Minneapolis, MN: IPUMS2021.
15. Lleras-Muney A. The relationship between education and adult mortality in the United States. *The Review of Economic Studies.* 2005;72(1):189-221.
16. Anderson DM, Brown R, Charles KK, Rees DI. Occupational licensing and maternal health: Evidence from early midwifery laws. *Journal of Political Economy.* 2020;128(11):4337-4383.
17. Miller G. Women's suffrage, political responsiveness, and child survival in American history. *The Quarterly Journal of Economics.* 2008;123(3):1287-1327.

RAHI ABOUK

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EDUCATION

Ph.D. Economics, University of Wisconsin-Milwaukee, USA **2013**

M.Sc. Socio-economic Systems Engineering, IMPS, Iran **2005**

B.Sc. Engineering, Iran University of Science & Technology, Iran **2002**

PROFESSIONAL EXPERIENCE

William Paterson University

Director, Cannabis Research Institute **Fall 2018 - present**

William Paterson University, Department of Economics, Finance, and Global Business

Associate Professor, Tenured **Fall 2020- present**

Associate Professor **Fall 2018 - Spring 2020**

Assistant Professor **Fall 2014 - Spring 2018**

Ohio University, Department of Economics

Visiting Assistant Professor **Fall 2013 - Spring 2014**

FIELDS OF INTERESTS

Applied Microeconomics, Health Economics

PUBLICATIONS

- Peer reviewed

1. Abouk R., De P.K., Pesko M.F., "Examining Early Effects of Tobacco 21 on Substance Use among Teenagers", forthcoming at ***Journal of Health Economics***.
2. Abouk R., Jalali N., Papatla, P., "Can Tweets be Word of Mouth that Changes Risky Behaviors?", ***Journal of Business Research***, 174, 114501, 2024.
3. Abouk R., Adams S.J., Feng B., Maclean J.C., Pesko M.P., "The effect of E-cigarette Taxes on Pre-pregnancy and Prenatal Smoking", ***Journal of Policy Analysis and Management***, 42(4), 2023, 908-940.
4. Abouk R., Ghimire K., Maclean J.C., Powell D., "Pain Management and Work Capacity: Evidence from Workers' Compensation and Marijuana Legalization", ***Journal of Policy Analysis and Management***, 42(3), 2023, 737–770.

5. Abouk R., Courtemanche J.C., Dave D.M., Feng B., Friedman A.S., Maclean J.C., Pesko M.F., Sabia J.J., and Safford S., "Intended and Unintended Effects of E-cigarette Taxes on Youth Tobacco Use", ***Journal of Health Economics***, 87, 102720, 2023.
6. Macha V., Abouk R., Drake C., "Association of recreational cannabis legalization with alcohol use among adults in the US, 2010 to 2019", ***JAMA: Health Forum***, 3(11), 2022, e224069-e224069.
7. Abouk R., Adams S.J., "Breakfast After the Bell: The Effects of Expanding Access to School Breakfasts on the Weight and Achievement of Elementary School Children", ***Economics of Education Review***, 2022, 87, 102224.
8. Abouk R., Powell D., "Can Mandatory Electronic Prescriptions Reduce Opioid Abuse?", ***Economics & Human Biology***, 42, 2021, 101000.
9. Abouk R., Heydari B., "The Immediate Effect of COVID-19 Policies on Social Distancing Behavior in the United States", ***Public Health Reports***, 136(2), 2021, 245-252.
10. Abouk R., Helmchen L, Moghtaderi A., Pines J., "The ACA Medicaid Expansions and Opioid Mortality: Is There a Link?", ***Medical Care Research and Review***, 78(6), 2021, 713-724.
11. Abouk R., Pacula R.L., Powell D., "State-Level Approaches to Expanding Pharmacists' Authority to Dispense Naloxone May Affect Accessibility—Reply", ***JAMA Internal Medicine***, 179(10), 2019, 1443-1443.
12. Abouk R., Pacula R.L., Powell D., "Association Between State Laws Facilitating Pharmacy Distribution of Naloxone and Risk of Fatal Overdose", ***JAMA Internal Medicine***, 179(6), 2019, 805-811.
13. Abouk R., Adams S.J., "Examining the Relationship between Medical Marijuana Laws and Cardiovascular Deaths in the US, ***International Journal of Drug Policy***, 53, 2018, 1-7.
14. Abouk R., Adams S.J., "Birth Outcomes in Flint in the Early Stages of the Water Crisis", ***Journal of Public Health Policy***, 39, 2018, 68-85.
15. Paterson C., Grosse S.D., Abouk R., Glidewell J., Oster M.E.,"Cost and Cost-effectiveness Assessments of Newborn Screening for Critical Congenital Heart Disease Using Pulse Oximetry: A Review", ***International Journal of Neonatal Screening***, 3(4), 2017, 34.
16. Abouk R., Grosse S.D., Ailes E., Oster M.E., "Association of US State Implementation of Newborn Screening Policies for Critical Congenital Heart Disease with Early Infant Cardiac Deaths", ***Journal of the American Medical Association (JAMA)***, 317(21), 2017, 2111-2118.
    - *Winner of the CDC's 2018 Charles C. Shepard Science Award in Prevention and Control*
17. Abouk R., Adams S.J., "Bans on Electronic Cigarette Sales to Minors and Smoking Among High School Students", ***Journal of Health Economics***, 54, 2017, 17-24.
18. Abouk R., Adams S.J., "Compliance Inspections of Tobacco Retailers and Youth Smoking", ***American Journal of Health Economics***, 3(1), 2017, 10-32.
19. Goranova M., Abouk R., Nystrom P., Soofi E., "Corporate Governance Antecedents to Shareholder Activism: A Zero-inflated Process", ***Strategic Management Journal***, 38(2), 2017, 415-435.
20. Bartholomew K., Abouk R., "The Effect of Local Smokefree Regulations on Birth Outcomes and Prenatal Smoking", ***Maternal and Child Health Journal***, 20(7), 2016, 1526-1538.
21. Abouk R., Adams S.J., "Texting Bans and Fatal Accidents on Roadways: Do They Work? Or Do Drivers Just React to Announcements of Bans?", ***American Economic Journal: Applied Economics***, 5(2), 2013, 179-199.

22. Abouk R., Adams S.J., "The Effect of School Shootings on Private School Enrollment", ***Economics Letters***, 118(2), 2013, 297-299.

- Non-peer reviewed
  - Almli LM, Ely DM, Ailes EC, et al. "Infant Mortality Attributable to Birth Defects — United States, 2003–2017", ***MMWR Morb Mortal Wkly Rep***, 69, 2020, 25–29.

WORKING PAPERS

"Investigating the Complexity of Naloxone Distribution: Which Policies Matter for Pharmacies and Potential Recipients",(with Rosanna Smart, David Powell, Evan Peet, Corey Davis, and Rosalie Pacula). National Bureau of Economic Research Working Paper No. w31142., revise and resubmit at ***Journal of Health Economics***.

"Can Access to Alternative Pain Management Therapies Reduce Overdose Rates? Evidence from Medical Cannabidiol Laws" (with Mohamad Mansouri and David Powell), ***Under review***.

"The Local Effect of School Shootings on Hospitalization and Mortality: Evidence from California", (with Scott Adams).

"Regulating Quasi-Legal Opioid Markets: Evidence from Pain Management Clinic Laws", (with David Powell, Yuji Mizushima, and Cheryl Damberg).

"Legal Cannabis Access and Obesity in Younger Children", (with Scott Aams).

"Effect of School Shootings on Birth Outcomes", (with Scott Adams).

"Effect of School Shootings on Opioid Overdose Deaths".

"Effect of Electronic Cigarette Indoor Bans on Smoking Conventional Cigarettes".

"E-Cigarettes and Excessive Drinking" (with Scott Adams and Ali Moghtaderi).

"Parental Involvement and Childhood Weight: The Case of Homeschooling".

RESEARCH IN PROGRESS

"Effect of School Shootings on Demand for Cannabis: Evidence from Washington Dispensaries", (with Catherine Maclean and Rosalie Pacula)

"Do Medical Cannabidiol Laws Increase Alcohol use?", (with David Powell)

"Labor Market Effects of Legal Recreational Cannabis Sales", (with Scott Adams).

"Effect of Hospital Service Disruption on Hospital Utilization and Health Outcomes", with (David Powell and Ateev Mehrotra).

"Minimum Wage, School Lunch Program, and Childhood Obesity".

"Effect of Medical Marijuana Laws on Young Adults".

RESEARCH GRANTS

"Can Mandatory Electronic Prescriptions Reduce Opioid Abuse?", Co-Principal Investigator (joint with David Powell, RAND), National Institute on Drug Abuse R21DA045983, 05/01/2019-04/30/2022, $463,313 (completed).

"Understanding the Consequences of Major Information Disruptions in Hospitals", Principal Investigator (joint with David Powell, RAND), Agency for Healthcare Research and Quality R01HS028994, 07/01/2024-06/30/2029, $1,974,466 (pending).

"Reconciling the Relationship between Legalization of Cannabis and Adolescent Use: The Importance of Policy Enforcement", Principal Investigator, National Institute on Drug Abuse R01DA058793, 09/01/2024-08/31/2028, $1,943,299 (pending).

"How is Cannabidiol Policy Impacting Substance Use?", co-Investigator (Site PI), National Institute on Drug Abuse R21, 04/01/2024-03/31/2026, (pending)

MEDIA APPEARANCE

Lancet Oncology News, *"UK Announces Plan to Increase Legal Age of Buying Tobacco by 1 Year Every Year"*, October 2023.

NPR, Planet Money, *"The Data on Ligalizing Weed"*, March 2021.

Northjersey, *"Legal Weed in NJ: Study Shows it Cuts Down on Workers' Comp Claims in Adults"*, February 2021.

VoxEU, *"E-cigarette taxation, pre-pregnancy and pre-natal smoking, and birth outcomes"*, October 2019.

NIH Director's Blog, *"Easier Access to Naloxone Linked to Fewer Opioid Deaths"*, May 2019.

Reuters, *"Opioid overdose deaths decline when pharmacists can dispense naloxone"*, May 2019.

Vox, *"A new study backs up a lifesaving approach to the opioid epidemic"*, May 2019.

U.S. News, *"Dispensing Opioid Antidote Without a Prescription Might Save Lives"*, May 2019.

Philadelphia Inquirer, *"This infant oxygen test saves lives, and N.J. was first state to require it"*, December 2017.

Rewire, *"Not Just Flint: Water Crisis Studies Aim to Shed Light on Lead Problems Elsewhere"*, November 2017.

NJTV News, *"Surgeon General Warns of New Vaping Risks for Teens"*, December 2016.

NPR Marketplace, *"2014 Is Not the Year to Text While Driving"*, December 2013.

The Atlantic, *"Do Texting Bans Really Prevent Fatal Accidents?"*, March 2013.

The Palm Beach Post,*"Once-shunned Anti-texting Bill Gains Renewed Momentum in Florida Legislature"*, April 2013.

The Tampa Tribune,*"Intextication Ban Won't Fix Anything"*, April 2013.

Sheboygan Press,*"Ban all cellphone use by drivers?"*, April 2013.

Slate Magazine, *"Don't Text to a Driver!"*, August 2013.

HONORS AND AWARDS

WPU Career Development Award, 2019.

Centers for Disease Control and Prevention (CDC), Charles C. Shepard Science Award, 2018.

WPU Cotsakos College of Business, Summer Research Grant, 2015-2019.

The HAND Economics Forum Travel Award, 2013.

Graduate Paper Competition Finalist, Illinois Economic Association Meeting, DePaul University, 2012.

UWM Graduate School Travel Award, 2012.

NBER Travel Award, 2011.

Graduate Teaching Assistant Award, Department of Economics, UWM, 2007-2011.

PROFESSIONAL SERVICE

Ad hoc Reviewer, National Institute of Health, 2021-

Reviewer for *American Economic Journal: Economic Policy, The Journal of Real Estate Finance and Economics, Demography, Journal of Policy Analysis & Management (x3+), European Journal of Political Economy, Journal of Applied Econometrics, Journal of Economic Behavior & Organization (x2), Economic Journal, Journal of Health Economics (x3+), Maternal and Child Health Journal, Economics and Human Biology (x3+), Economics of Education Review, American Journal of Public Health (x2), The B.E. Journal of Economic Analysis and Policy, Contemporary Economic Policy, International Journal of Environmental Research and Public Health, Econometric Reviews, Journal of Economic Studies, Applied Economics.*

INVITED TALKS AND CONFERENCE PRESENTATIONS

45th Annual Fall Research Conference, APPAM, Atlanta, GA, Nov 2023.

American Society of Health Economists Conference, St. Louis, MO, June 2023.

University of Indiana, O'Neill School of Public and Environmental Affairs, Jan 2023.

82nd Conference of the Southern Economic Association, Fort Lauderdale, FL, Nov 2022.

University of Pittsburgh, Department of Economics, Nov 2022.

NBER Summer Institute Health Economics Workshop, Virtual, July 2021.

American Society of Health Economists Conference, Virtual, June 2021.

Tobacco Online Policy Seminar (TOPS), April 2021.

90th Conference of the Southern Economic Association, Virtual, Nov 2020.

42nd Annual Fall Research Conference, APPAM, Virtual, Nov 2020.

89th Conference of the Southern Economic Association, Fort Lauderdale, FL, Nov 2019.

41st Annual Fall Research Conference, APPAM, Denver CO, Nov 2019.

Hamburg Center for Health Economics (HCHE), Hamburg, Germany, October 2019.

American Economic Association Conference, Atlanta, GA, January 2019.

88th Conference of the Southern Economic Association, Washington DC, Nov 2018.

American Society of Health Economists Conference, Emory University GA, June 2018.

Population Association of America Annual Conference, Denver, April 2018.

Eastern Economic Association Meeting, Boston, March 2018.

CCHD NewSTEPs Technical Advisory Webinar, December 2017.

87th Conference of the Southern Economic Association, Tampa FL, Nov 2017 (Session Chair).

UWM, College of Business and Department of Economics Seminar, Milwaukee WI, Nov 2017.

39th Annual Fall Research Conference, APPAM, Chicago IL, Nov 2017.

Lehigh University Economics Department Seminar, Bethlehem PA, Oct 2017.

*i*HEA Biennial World Congress, Boston, MA, July 2017.

Marketing Science Conference on Health, Washington University in St. Louis, MO, November 2016.

86th Conference of the Southern Economic Association, Washington D.C., November 2016.

National Conference on Water Economics, Tehran, July 2016.

American Society of Health Economists Conference, UPenn PA, June 2016.

Eastern Economic Association Meeting, Washington D.C., February 2016.

Eastern Economic Association Meeting, New York City, February 2015.

University of Maryland Baltimore County, Baltimore, MD, February 2015.

FDA Public Workshop on e-cigarettes, Washington D.C., December 2014.

American Society of Health Economists Conference, USC, CA, June 2014.

Midwest Economic Association Meeting, Chicago, IL, 2014.

The HAND Economics Forum, UPenn, PA, 2013.

Academy of Management Annual Meeting, 2013.

140th APHA meeting, San Francisco CA, 2012.

Illinois Economic Association Meeting, DePaul University, IL, 2012.

American Society of Health Economists Conference, University of Minnesota, MN, 2012.

Midwest Economic Association Meeting, Chicago, IL, 2012.

TEACHING EXPERIENCE

Graduate

- *Health Economics & Policy*, Fall 2022, Fall 2023.
- *Labor Economics*, Fall 2013.
- *Applied Regression Analysis*, Summer 2013.
- *Economic Analysis for Managers*, Spring 2012.

Undergraduate

- *Economics of Cannabis*, Spring 2023.
- *Healthcare Economics*, Fall 2014 - present, Summer 2015-2023 (online).
- *Labor Economics*, Fall 2013, Summer 2014.
- *Economic Statistics*, Fall 2010, Spring 2015 - present, Spring 2011.
- *Managerial Economics*, Summer 2016 (online), Fall 2013, Spring 2014, Summer 2014.
- *Financial Markets & Institutions*, Fall 2011.
- *Principles of Macroeconomics*, Fall 2008 - Spring 2011, Summer 2018.
- *Principles of Microeconomics*, Summer 2009 and 2018.

GRADUATE STUDENT SUPERVISION

Elizabeth Varghess, Ph.D. in Nursing, William Paterson University.

Chuan Wang, M.A. in Economics, Ohio University.

SERVICE

University Level

- *Faculty Senate, Global Awareness UCC Review Panel*, Fall 2019- present.
- *Faculty Senate Undergraduate Council*, Fall 2015- present.
- *Faculty Senate Representative, Interim*, Spring 2018.
- *Technology Across Curriculum (TAC) Committee*, Fall 2016- Fall 2018.

College Level

- *Assurance of Learning Committee*, Fall 2015 - Spring 2020.

Department Level

- *Grievance Committee*, Fall 2014 - present.

PROFESSIONAL MEMBERSHIP

American Economic Association (AEA).

American Society of Health Economists (ASHEcon).

Association for Public Policy Analysis & Management (APPAM).

Southern Economic Association (SEA).

Last updated: February 5, 2024