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EDUCATION

- 2024 Ph.D. Candidate in Economics, [University of Oklahoma](#), Norman, OK
- 2019 M.S. in Applied Mathematics, [University of Central Oklahoma](#), Edmond, OK
- 2015 M.B.A., [University of Central Oklahoma](#), Edmond, OK
- 2011 B.A. in Finance, [Knowledge Computer and Business Institute](#), Rabat, Morocco

RESEARCH FIELDS

- Primary: Labor Economics, Economics of Education
- Secondary: Health Economics, Public Economics

PUBLICATIONS

- 2024 “From High School to Higher Education: Is Recreational Marijuana a Consumption Amenity for US College Students?” (Sole Author), [Economic Inquiry](#)
- 2019 “Persistence homology of networks: methods and applications” (with Aktas Mehmet E., and Esra Akbas), [Applied Network Science](#)

FORTHCOMING

- 2024 “Vaccine Production and Innovation: Insights from Tort Reform and Medicare Expansion” (with Myongjin Kim, Firat Demir, Qi Ge, Pallab Ghosh, and Junying Zhao), [Under review at Health Economics](#)
- 2024 “Impacts of Federal Recommendation on Neonatal Vaccination and Mortality: HBV Vaccine Evidence” (with Pallab Ghosh, and Junying Zhao), [Review and Resubmit to Pediatrics Open Science](#)

WORKING PAPERS

“Dollars and Degrees: The Asymmetric Impact of State Appropriations on STEM and Non-STEM Fields”

Abstract: This study examines the differential impact of state appropriations on STEM and non-STEM degree completion at U.S. public four-year institutions. Using a panel dataset from 2003 to 2019 and a Bartik-style instrumental variable approach, I find that state funding disproportionately affects STEM degree completion. A 10% increase in state appropriations leads to a 3.41% increase in STEM degrees conferred, primarily four years after the funding change. This effect is concentrated among male students, science STEM majors, and

non-selective institutions. Increased state support leads to lower tuition, higher institutional spending, and more STEM programs, factors that impact STEM degree completion more than non-STEM fields.

WORKS IN PROGRESS

“What is the Role of College Athletics? An Analysis of the Population of NCAA Athletes” (with Tyler Ransom)

Abstract: Admissions at elite private universities in the United States are becoming increasingly competitive. As competition increases, seats become more and more scarce. This paper analyzes the population of athletes at all Division I NCAA institutions. Using publicly available data from the US Department of Education, the NCAA, and institutions’ athletic rosters, we document several novel facts. First, elite institutions enroll more athletes and field more varsity teams than even the largest public institutions, despite having drastically smaller student bodies. To provide further context on the background of athletes at elite institutions, we supplement the institution-level analysis with individual-level data taken from publicly available athletic rosters. Finally, we analyze the effect of a hypothetical policy that would restrict student athletes at each universities to be less than a certain fraction of the overall student body.

“Effects of Federal Recommendation on Vaccination and Neonatal Mortality: Evidence from HBV ” (with Pallab Ghosh and Junying Zhao)

“Language Diversity: Does Mother Tongue Affect School Achievement?” (Sole Author)

“Fracking and Tracking: The Effects of Oil and Natural Gas Wells on the Housing Market (with Brent Norwood and Samantha R. Johnson)”

CONFERENCE PRESENTATIONS

2023	Southern Economic Association, New Orleans, Louisiana (November)
	The Missouri Valley Economic Association, Kansas City, Missouri (October)
	Society of Labor Economists, Philadelphia, Pennsylvania (May)
	Midwest Economics Association, Cleveland, Ohio (March)

FELLOWSHIPS & AWARDS

2024	Dodge Family College of Arts and Science Dissertation Completion Fellowship, University of Oklahoma
2023	Graduate Student Award, Southern Economic Association
2023	Dodge Family College of Arts and Science Dissertation Research Fellowship, University of Oklahoma

2022	Winner of the Chong Liew Summer Research Award, University of Oklahoma
2021	Chong Liew Outstanding 1st Year Graduate Student Award, University of Oklahoma
2019	Third Place in Three Minute Thesis Competition, University of Central Oklahoma

TEACHING EXPERIENCE

2023 (Fall)	Principles of Economics-Macro. (ECON-1113), University of Oklahoma
2022 (Fall)	Principles of Economics-Micro. (ECON-1123), University of Oklahoma
2022 (Summer)	Elements of Statistics (ECON 2843), University of Oklahoma
2021 (Fall)	Elements of Statistics (ECON 2843), University of Oklahoma
2018 (Fall)	Intermediate Algebra (DMAT-0115), University of Central Oklahoma

EMPLOYMENT & AFFILIATIONS

2021-Current	Research Assistant, University of Oklahoma
2020-2021	Teaching Assistant, University of Oklahoma
2018-2019	Teaching Assistant, University of Central Oklahoma

REFeree SERVICE

2024	Social Sciences & Humanities Open
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MEDIA APPEARANCES

2024	Study evaluates effects of legalized marijuana on higher education, by Marie O. Uberti Benz, MedicalResearch.com, June 27, 2024
	Research examines how recreational marijuana legalization affects a state's college enrollment, Phys.org, May 29, 2024
	Legal recreational cannabis encourages college enrollment, by Joanna Mulvaney, medicalnewsbulletin.com, June 17, 2024

SKILLS

Coding Expertise	R, Stata, Python, MATLAB, Julia, C++, and \LaTeX
Coding Experience	SPSS, ArcGIS Pro, Mathematica, and Git
Languages	English (Fluent), French (Intermediate), Arabic/ Tamazight (Native)

REFERENCES

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