

# Ahmed El Fatmaoui

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Department of Economics  
University of Oklahoma  
308 Cate Center Drive, Room 336  
Norman OK, 73072

Phone: (405) 325-2861  
E-mail: [aelfatmaoui@ou.edu](mailto:aelfatmaoui@ou.edu)  
Homepage: [ahmedelfatmaoui.github.io](https://ahmedelfatmaoui.github.io)  
Citizenship: Morocco

## EDUCATION

2025	Expected Ph.D. in Economics, <a href="#">University of Oklahoma</a> , Norman, OK
2019	M.S. in Applied Mathematics, <a href="#">University of Central Oklahoma</a> , Edmond, OK
2015	M.B.A., <a href="#">University of Central Oklahoma</a> , Edmond, OK
2011	B.A. in Finance, <a href="#">Knowledge Computer and Business Institute</a> , 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), <i>Economic Inquiry</i> , 62(3), 1024-1045
2019	“Persistence homology of networks: methods and applications” (with Mehmet Aktas, and Esra Akbas), <i>Applied Network Science</i> , 4(1), 1-28

## JOB MARKET PAPER

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

*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 variables approach, I find that state funding disproportionately affects STEM degree completion, with little to no impact on Non-STEM degrees. A 10% increase in state appropriations leads to a 3.4% 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 higher institutional spending, and more STEM programs—factors that impact STEM degree completion more than non-STEM fields.

## WORKING PAPERS

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 <i>Health Economics</i>
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- 2024 “Vaccine Hesitancy and Neonatal Mortality: The Life-Saving Power of Hepatitis B Immunization” (with Pallab Ghosh, and Junying Zhao), Under review at *Health Economics Review*
- 2024 “Impacts of Federal Recommendation on Neonatal Vaccination and Mortality: HBV Vaccine Evidence” (with Pallab Ghosh, and Junying Zhao), Revise and Resubmit to *Pediatrics Open Science*

## 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.

“Balancing Tuition and Fees: Do Growing College Fees Affect Student Outcomes?” (Sole Author)

*Abstract:* I investigate the relationship between tuition and fees at US public four-year universities, driven by tuition caps and freeze policies. I find that a one-dollar increase in tuition results in a 45 to 62 cent reduction in fees. This substitution effect arises from state-imposed tuition caps and freezes, which limit tuition increases and lead some institutions to raise or introduce new fees instead. Employing an instrumental variable approach with tuition restriction policies, I reveal that while the fee share has a negative but insignificant effect on first-time college enrollment, it significantly impacts STEM major completions. A 10 percentage point increase in fee share leads to a 1.6 percent decrease in STEM major awards, highlighting the differential effects of fees on various academic programs.

“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

2024	The Missouri Valley Economic Association, Kansas City, Missouri (October)
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	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)	Fundamental 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
	Legal recreational cannabis encourages college enrollment, by Joanna Mulvaney, medicalnewsbulletin.com, June 17, 2024

Research examines how recreational marijuana legalization affects a state's college enrollment, Phys.org, May 29, 2024

## SKILLS

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

## REFERENCES

### **Tyler Ransom**

Associate Professor  
Department of Economics  
University of Oklahoma  
322 CCD1,  
308 Cate Center Drive  
Norman, OK 73072  
Tel: (405) 325-2861  
Email: [ransom@ou.edu](mailto:ransom@ou.edu)

### **Pallab Ghosh**

Associate Professor  
Department of Economics  
University of Oklahoma  
323 CCD1,  
308 Cate Center Drive  
Norman, OK 73072  
Tel: (315) 443-1630  
Email: [pallab.ghosh@ou.edu](mailto:pallab.ghosh@ou.edu)

### **Greg Burge**

Professor and Department Chair  
Department of Economics  
University of Oklahoma  
170 CCD1,  
308 Cate Center Drive  
Norman, OK 73072  
Tel: (405) 325-5857  
Email: [gburge@ou.edu](mailto:gburge@ou.edu)

### **Myongjin Kim**

Associate Professor,  
Department of Economics  
University of Oklahoma  
432 CCD1  
308 Cate Center Drive  
Norman, OK 73072  
Tel: (405) 325-3326  
Email: [mjkim@ou.edu](mailto:mjkim@ou.edu)