MARK E BRENNAN

ABOUT

Contact
e. mark.brennan@rutgers.edu
p. (856) 225-6800
o. 227 Penn St., Camden, NJ, 08102

Socials
w. Personal Site
w. GoogleScholar
w. LinkedIn

Socials
w. ORCID
w. ResearchGate
w. SSRN

I'm a Central Jersey born-and-raised logistican and data scientist, having returned to the state in 2024 to teach and research supply chain and operations at Rutgers. Before Rutgers, I worked at New York City's largest nonprofit hospital system, ran the UN's food stamps retail operation in Somalia, and served as a research fellow with Boston's public ambulance service.

EDUCATION

2014–20	**Massachusetts Institute of Technology**, Cambridge
	Ph.D. Policy, Operations, & Management
	S.M. Technology & Policy
2013–14	**University of Limerick**, Limerick Ireland
	M.Sc. Mathematical Modelling, First Class
	Scholarship: Senator George J Mitchell Scholar
2008–12	**Johns Hopkins University**, Baltimore
	B.A. Applied Mathematics & Statistics, Honors

WORK

ACADEMIC APPOINTMENTS

2024-	**Rutgers** School of Business. Assistant Professor of Operations Management. Camden.
2018-22	**US Naval War College**. Visiting Scholar ('20-22) & Affiliated Scholar. Newport.
2012-13	**Universite de Dakar**. Walsh Fellow. Dakar, Senegal.

PUBLIC and NONPROFIT JOBS

2024-	**NewYork-Presbyterian**. Group: Analytics. Senior Data Scientist. New York.
	Helping build analytics infrastructure for NYC's largest nonprofit hospital.
	United Nations World Food Programme.
2023	Head of Retail Unit. Program: Somalia. Mogadishu.
	For drought, ran retail logs for $150 m/yr food stamps operation, leading team of 18.
2022	Supply Chain Officer. Program: Ukraine. Krakow & Lviv.
	With war, analyzed public and tender data to identify viable grain export routes.
2020-23	**City of Boston Emergency Medical Services**. Research Fellow. Boston.
	Built analytics for leadership, focused on segmenting demand and service.
	Award: Boston Public Health Commission Special Citation
	City of New Brunswick. New Brunswick. *Seasonal.*
2012-13	Site Leader. Summer Program: Baker Park.
	Managed USDA-summer-lunch distributions in a park.

RESEARCH

ARTICLES

Supply chain and operations articles

Working

Siting facilities: **Mark Brennan**, Steve Graves [O], Peter Zhang [O], Babacar Ndiaye [O], Jonars Spielberg [P], Bish Sanyal [P]. "Improving basic retail coverage in Africa: modeling geographic disadvantage among farmers in Senegal."

Insuring communities: **Mark Brennan**, Lidia Pecharroman [P], Justin Steil [P], Savannah En [S]. "Which cities choose mitigation? Urban socioeconomic, politics, and civil society in proactive risk management."

Review

Segmenting demand: **Mark Brennan**, Sophia Dyer [G], James Salvia [G], Sophia Dyer [G], Laura Segal [G], Erin Serino [G], Justin Steil [P], Sean Willems [O]. "The City of Boston sites policy interventions to address disparate car-crash risk."

Coverage: The Boston Globe.

2024

Bridging operations and planning: **Mark Brennan** "Revisiting equity in urban operations management 50 years later: What do city planners have to say?" *Production and Operations Management.* 34(4): 846-853.

Special Issue: Community in POM.

Segmenting service: **Mark Brennan**, Jonas Jonasson [O], Sophia Dyer [G], James Salvia [G], Laura Segal [G], Erin Serino [G], and Justin Steil [P]. "The policy case for designating EMS teams for vulnerable patient populations: evidence from an intervention in Boston." *Health Care Management Science.* 27(1):72-87.

Award: 2024 Runner Up - INFORMS MSOM Society Award for Responsible Research.
Coverage: Office of the Attorney General 2023 Report on Healthcare Costs.

2022

Mapping retail risk: **Mark Brennan**, Stephen Graves [O], Jonars Spielberg [P], Bish Sanyal [P]. "Operations, risk, and small firms: Field results from irrigation equipment vendors in Senegal." *Production and Operations Management.* 31, 3594–3610.

2019

Sizing orders: Jaime Andres Castaneda [O], **Mark Brennan**, and Jarrod Goentzel [O]. 2019. "A behavioral investigation of supply chain contracts for a newsvendor problem in a developing economy" *International Journal of Production Economics.* 210, 72-83.

Coverage: United Nations Food and Agriculture Organization Knowledge Portal.

Urban planning and policy articles

Review

Delivering services: Justin Steil [P], Ruth Gourevitch [G], **Mark Brennan**. "Civil rights, urban policy, and the origins of the US Emergency Medical Services system"

Collaborator: [G]: Government or nonprofit, [P]: Academic city planning, [O]: Academic operations, [S]: Student

RnR	*Insuring communities*: Lidia Pecharroman [P], **Mark Brennan**, Justin Steil [P], Savannah En [S]. "Crosscurrents in flood planning and insurance discounts: what drives action?"
2025	*Segmenting demand*: **Mark Brennan**, Justin Steil [P], Yonah Freemark [G], James Salvia [G], Sophia Dyer [G], Laura Segal [G], and Erin Serino [G]. "Mobility risk: using ambulance operations data to analyze the spatial and social dimensions of health disadvantage." *Health & Cities*
	Special Issue: Mobility Justice.
2024	*Estimating price spikes*: **Mark Brennan**, Tanaya Srini [G], Justin Steil [P]. "High and dry: rental markets after flooding disasters." *Urban Affairs Review.* 6(6).
2022	*Forecasting demand*: **Mark Brennan**, Justin Steil [G], Sophia Dyer [G], Laura Segal [G], Erin Serino [G], and James Salvia [G]. "Policy-relevant indicators of COVID-19 patient encounters in an urban ambulance system." *Journal of Urban Health.* 100, 11–15.
	Siting facilities: **Mark Brennan**, Aditi Mheta [P], and Justin Steil [P]. "In harm's way? The effect of disasters on the magnitude and location of Low-Income Housing Tax Credit allocations." *Journal of Policy Analysis and Management.* 41(2),486-514.
	Quantifying demand: **Mark Brennan**, Silvia Danilek [P]. "Too small to count? The impact and policy implications of small disasters in the Sahel." *International Journal on Disaster Risk Reduction.* 68, 102687.
	Estimating inventory turns: **Mark Brennan**, Tanaya Srini [G], Justin Steil [P], Miho Mazereeuw [P], Larisa Ovalles [P]. "A perfect storm? Disasters and evictions." *Housing Policy Debate.* 32(1), 52-83.
	Special Issue: Disaster Housing.
	Coverage: Associated Press, Connecticut Mirror, Urban Institute Housing 360 Research Summary
2020	*Siting facilities*: Aditi Mheta [P], **Mark Brennan**, and Justin Steil [P]. 2020. "Affordable housing, disasters, and social equity." *Journal of the American Planning Association.* 86(1), 75-88.
	Coverage: National Low Income Housing Coalition Brief
2019	*Revamping cargo handling*: **Mark Brennan**, Prithvi Sundar, Jarrod Goentzel [O], Dan Frey, and Joanne Mathias. 2019. "One more tool in the food aid toolbox? Experimental evidence from eastern Africa on packaging." *Food Policy.* 88, 101746.
	Coverage: Devex, PolicyMic, MIT News.
2013	*Greening industries*: **Mark Brennan** and Ben Zaitchik. 2013. "On the potential for alternative greenhouse gas equivalence metrics to influence sectoral mitigation patterns." *Environmental Research Letters* 8(1), 014033.

Collaborator: [G]: Government or nonprofit,   [P]: Academic city planning,   [O]: Academic operations,   [S]: Student

SUPPORT

AWARDS

External

2025	Community Foundation of South Jersey pilot design. *Retailer buying power.* ($1,000, with Emma Friedman ^{G}, Mike O'Bryan ^{P}, et al.)
2013	Senator George J Mitchell Scholarship. Study: University of Limerick.
2010	IIE Ibrahim Project Fellowship. Study-tour: Middle East.

Internal

2019	MIT Policy Lab Grant. *Revamping cargo handling* ($5,000, with Dan Frey et al.).
2019	MIT LCAU Seed Grant. *Estimating inventory turns* ($20,000, with Justin Steil ^{P}, Miho Mazereeuw ^{P}, Larisa Ovalles ^{P}).
	MIT Public Service Fellowship. *Mapping retail risk.*
2018	MIT Emerson Award. *Estimating inventory turns.*
2017	MIT Community Jameel Seed Grant. *Mapping retail risk*: Managed $200k door-to-door retailer survey on risk in 35 towns in Sénégal. ($200,000, with Stephen Graves ^{O}, Jonars Spielberg ^{P}, Bish Sanyal^P).
	MIT Public Service Fellowship. *Documenting sourcing challenges.*
2016	MIT Public Service Fellowship. *Revamping cargo handling* (with USIAD).
2015	MIT Public Service Fellowship. *Sizing orders* (with WFP).
2012	JHU Margaret Walsh Fellowship. *Siting facilities*: Surveyed fish transporters on costs and routes in arid West Africa. ($15,000).
2011	JHU Bander Foundation Award. Study: Wolof.
2009	JHU Provost Undergraduate Research Award. *Greening industries*

GOVERNMENT-COMMISSIONED STUDIES

Massachusetts Institute of Technology. Cambridge.

2017-21	Associate & Assistant. Study: *Productizing planning.* Sponsor & partner: FEMA. Prepared a web-based guide on aid and supply chain disruptions for local officials.
2015-17	Study Lead. Study: *Revamping cargo handling.* Sponsor & partner: USAID. Piloted new aid shipping practices in $500k, 60 shipment, +50 stakeholder test.
2016-17	Study Lead. Study: *Documenting sourcing challenges.* Sponsor: USAID. Documented procurement issues of NGO managers in Tanzanian cities.
2014-16	Assistant. Study: *Sizing orders.* Sponsor: USAID. Partner: UN Uganda. Determined landed costs and risk for UN 'Contract Manufacturing Organizations'.

Collaborator: ^{G}: Government or nonprofit, ^{P}: Academic city planning, ^{O}: Academic operations, ^{S}: Student

RESEARCH TALKS and PRESENTATIONS

INVITED TALKS

Segmenting service
2025	Universite de Dakar, Senegal
2024	Rutgers, Camden

Mapping retail risk
2022	Yale, School of Management, Remote
2021	Stanford University, FSI, Remote
2020	Universite de Dakar, Dakar

Quantifying demand
2021	US Naval War College, Newport

Managing service capacity
2021	Wharton, Risk Center, Remote

Revamping cargo handling
2018	US Naval War College, Newport

CONFERENCE PRESENTATIONS

2025	INFORMS Conference, Atlanta
	POMS Conference, Atlanta
2024	INFORMS Conference, Seattle
2022	POMS Conference, Remote
2021	POMS Conference, Remote
2019	POMS Conference, DC
2018	Tufts Food Plus Conference, Boston
2017	INFORMS Conference, Houston
	Michigan State University, Lansing
	POMS Conference, Seattle
2016	HumTech Conference, Boston
	POMS Conference, Orlando
2015	Tufts FFN Conference, Boston
	Award: Best presentation
	INFORMS Conference, Philadelphia
	Global Food Security, Ithaca

POLICY and PUBLIC ENGAGEMENT

POLICY BRIEFS

Segmenting demand
2024	Vision Zero, Boston
2021	Vision Zero, Boston

Mapping retail risk
2021	USAID BFS, Remote

Revamping cargo handling
2017	Food Aid Consultative Group, DC
	USAID Food for Peace, DC
	Council on Foreign Relations, DC

Productizing planning and other projects
2021	City of Boston OEM, Boston,
2020	NYC Housing Authority, Remote
	World Bank, Remote
2019	FEMA, DC

Siting facilities
2013	WFP Dakar, Dakar

Greening industries
2010	US Department of State, DC

OPINION PIECES

2024	**Mark Brennan**. "Pinelands' history holds clues to U.S. steelmaking future." Editorial. *The South Jersey Times.* [Trenton, NJ] 10 June 2024.
2020	Tommy Tobin and **Mark Brennan**. "Putting hunger back on our policy menu." Editorial. *The Hill.* [Washington DC] 8 January 2020.
2019	**Mark Brennan**. "20 years after Hurricane Floyd, what has changed?" Editorial. *The Asbury Park Press.* [Asbury Park, NJ] 5 December 2019. Print.
2017	**Mark Brennan**. "Is NJ still the Garden State? 2017 census will offer an answer." Editorial. *The Star-Ledger.* [Newark, NJ] 14 January 2017. Print.
2016	**Mark Brennan**. "Meals coverage shouldn't lapse in summer." Editorial. *The Capital Gazette.* [Annapolis, MD] 3 June 2016. Print.
2015	**Mark Brennan**. "Providing New Jersey Kids with Free Meals an Essential Part of Summer Programs." Editorial. *The Star-Ledger.* [Newark, NJ] 27 June 2015. Print.

TEACHING

COURSES

2025, x1	Rutgers Camden. Assistant Professor. "Operations." (Honors.)
2024–, x4	Rutgers Camden. Assistant Professor. "Operations & Supply Chain Management."
2022	US Naval War College. Instructor. Part II of the humanitarian operations sequence.
	Award: 'Thank-a-Prof'
2019-21, x3	MIT Sloan. Teaching Assistant. "Supply Chain Planning." (Now: "Inventory Analytics".)
2020	MIT Sloan. Teaching Assistant. "Operations Management."
	MIT Sloan. Teaching Assistant. "Manufacturing Systems." (Now: "Capacity Analytics".)
2019	MIT Planning. Teaching Fellow. Elective on disaster relief.

ORIGINAL CASES

2021	"Service Capacity Management during COVID-19 at Boston EMS".
	Taught at: MIT, Rutgers

SERVICE

DISIPLINE

Awards

2024-25	INFORMS Edelman Award. 'Operation's Nobel Prize.' Committee Observer.

Conferences

2022	INFORMS Conference (public sector track session). Session chair.
2022	POM Conference (not-for-profit operations track session). Session chair.
2021	POM Conference (public sector track session). Session chair.
2020	POM Conference (public sector track session). Session chair.

COMMUNITY

2025-	Camden Food Security Collective. Rutgers Representative. (With Daniel Tome.)

DEPARTMENT

2025-	Rutgers School of Business Societal Impact Task Force. Member.
2024-	Rutgers School of Business Assurance of Learning committee. Member.
2017-19	MIT 'Urban Planning Dept' grad admissions committee. Member.

UNIVERSITY and CAMPUS

2024-	Rutgers committee on student postgrad study opportunities ('OSDFA'). Member.
2015-22	MIT committee on student postgrad study opportunities ('CAPD'). Member.

SKILLS

Languages		Analysis		Certificates	
French	Advanced	R	Expert	APICS	CSCP
Wolof	Basic	DAX	Intermediate	UN	SSAFE, Civ.-Mil.
		SQL	Basic	FEMA	IS-100, -200, -27, -70, -403

Work Sites

2025-	Rutgers *Segmenting demand.* Senegal: Dakar		Ethiopia: Addis, Mekele, Dire Dawa
2022-3	United Nations Somalia: Mogadishu, Dolow Poland: Krakow, Rzeszow Ukraine: Lviv	2016-17	MIT *Sourcing challenges.* Tanzania: Dodoma, Iringa, Arusha
		2014-16	MIT *Sizing orders.* Uganda: Kampala, Gulu, Jinja, Soroti
2017-22	MIT *Mapping retail risk.* Senegal: St. Louis, Podor, Matam	2011-13	JHU *Siting facilities.* Senegal: Dakar, Joal
2017-19	MIT *Revamping cargo handling.* Djibouti: Djibouti City South Africa: Durban		Guinea Bissau: Bissau The Gambia: Banjul