MARK E BRENNAN

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Socials
w. Personal Site
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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

SCHOLARSHIP ———————————————————————

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.

RESEARCH

ARTICLES

Operations management and management science articles

Review	*Segmenting demand*: **Mark Brennan**, Sophia Dyer, James Salvia, Laura Segal, Erin Serino, Justin Steil, Sean Willems. "The City of Boston segments EMS demand to reveal disparities in pediatric roadway crashes and inform preventative policy action."
	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*.
	Segmenting service: **Mark Brennan**, Jonas Jonasson, Sophia Dyer, James Salvia, Laura Segal, Erin Serino, and Justin Steil. "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.
	Coverage: Office of the Attorney General Report on Healthcare Costs.
2022	*Mapping retail risk*: **Mark Brennan**, Stephen Graves, Jonars Spielberg, Bish Sanyal. "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, **Mark Brennan**, and Jarrod Goentzel. 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.

Policy analysis and urban planning articles

Review	*Insuring communities*: Lidia Pecharroman, **Mark Brennan**, Justin Steil, Savannah En. "Cross currents: Environmental nonprofits, partisanship, and flood control."
	Segmenting demand: **Mark Brennan**, Justin Steil, Yonah Freemark, James Salvia, Sophia Dyer, Laura Segal, and Erin Serino. "Traffic crashes and the spatial dimensions of health disadvantage."
2024	*Estimating price spikes*: **Mark Brennan**, Tanaya Sirini, Justin Steil. "High and dry: rental markets after flooding disasters." *Urban Affairs Review.*
2022	*Forecasting demand*: **Mark Brennan**, Justin Steil, Sophia Dyer, Laura Segal, Erin Serino, and James Salvia. "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, and Justin Steil. "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. "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 Sirini, Justin Steil, Miho Mazereeuw, Larisa Ovalles. "A perfect storm? Disasters and evictions." *Housing Policy Debates.* 32(1), 52-83.
	Coverage: Associated Press, Connecticut Mirror, Urban Institute Housing 360 Research Summary
2020	*Siting facilities*: Aditi Mheta, **Mark Brennan**, and Justin Steil. 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, 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.

AWARDS

EXTERNAL

2013	Senator George J Mitchell Scholarship. Study: University of Limerick.
2010	IIE Ibrahim Project Fellowship. Study-tour: Middle East.

2019	MIT LCAU Seed Grant. *Estimating inventory turns* ($20,000, with Justin Steil, Miho Mazereeuw, Larisa Ovalles).
	MIT Public Service Fellowship. *Mapping retail risk.*
2018	MIT Emerson Award. *Estimating inventory turns.*
2017	MIT Community Jameel Seed Grant. *Mapping retail risk* ($200,000, with Stephen Graves, Jonars Spielberg, Bish Sanyal).
	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* ($15,000).
2011	JHU Bander Foundation Award. Study: Wolof.
2009	JHU Provost Undergraduate Research Award. *Greening industries*

POLICY COLLABORATION and PUBLIC ENGAGEMENT

BRIEFS

	Segmenting demand		*Productizing planning* and other projects
2024	Vision Zero, Boston		
2021	Vision Zero, Boston	2021	City of Boston OEM, Boston,
		2020	NYC Housing Authority, Remote
	Mapping retail risk		World Bank, Remote
2021	USAID BFS, Remote	2019	FEMA, DC
	Revamping cargo handling		*Siting facilities*
2017	Food Aid Consultative Group, DC	2013	WFP Dakar, Dakar
	USAID Food for Peace, DC		
	Council on Foreign Relations, DC		*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

2024	Rutgers Camden. Assistant Professor. Operations and Supply Chain Management.
2022	US Naval War College. Instructor. Part II of the humanitarain operations sequence. *Award:* 'Thank-a-Prof'
2021	MIT Sloan. Teaching Assistant. Supply Chain Planning.
2020	MIT Sloan. Teaching Assistant. Operations Management.
	MIT Sloan. Teaching Assistant. Manufacturing Systems.
	MIT Sloan. Teaching Assistant. Supply Chain Planning.
2019	MIT Planning. Teaching Fellow. Elective on disaster relief.
2019	MIT Sloan. Teaching Assistant. Supply Chain Planning.

CASES

2021	"Service Capacity Management during COVID-19 at Boston EMS". *Taught*: MIT Operations Management, MIT Manufacturing Systems

SERVICE

DISIPLINE

2024-25	INFORMS Edelman Award. Observer.
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.

UNIVERSITY

2015-22	MIT 'Institute Committee' for postgrad study opportunities. Mentor.
2017-19	MIT Urban Planning grad admissions committee. Reader.

SKILLS ———————————————————————————————

LANGUAGES		*ANALYSIS*		*CERTIFICATES*	
French	Advanced	R	Expert	APICS	CSCP
Wolof	Basic	SQL	Basic	UN	SSAFE, Civ.-Mil.
				FEMA	IS-100, -200, -27, -70, -403

FIELD WORK

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.*
2017-19	MIT *Revamping cargo handling.* Djibouti: Djibouti City South Africa: Durban Ethiopia: Addis, Mekele, Dire Dawa		Senegal: Dakar, Joal Guinea Bissau: Bissau The Gambia: Banjul

INDUSTRY and POLICY WORK ——————————————————————

PUBLIC and NONPROFIT AGENCIES

2024-	**NewYork-Presbyterian**. Group: Analytics. Senior Data Scientist. New York.
	Helping build analytics infrastructure for NYC's hargest 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 program, 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.

GOVERNMENT-COMMISSIONED and GRANT-FUNDED STUDIES

	Massachusetts Institute of Technology. Cambridge.
2017-22	Co-Investigator. Study: *Mapping retail risk.* Funder: Community Jameel.
	Managed $200k door-to-door retailer survey on risk in 35 towns in Sénégal.
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 a UN Contract Manufacturing Organizations.
2012-13	**Universite de Dakar**. Walsh Fellow. Dakar. Study: *Siting facilities.* Funder: JHU.
	Surveyed fish transporters on costs and routes in arid West Africa.