$\frac{Northwestern}{\text{Economics}}$

Modibo Camara

	Placement Director: Placement Administrator:	Professor Alessandro Pavan Alison Stoute	847-491-8266 847-491-5694	alepavan@northwestern.edu econjobmarket@northwestern.edu
Contact Information	Department of Economics Northwestern University 2211 Campus Drive Evanston, IL 60208	:	Mobile: 202-415-2751 mcamara@u.northwestern.edu https://mkcamara.github.io/ Citizenship: United States, Germany	
Fields	Research: Microeconomic Theory, Economics & Computation Teaching: Microeconomics, Econometrics			
Education	Ph.D., Economics, Northwestern University (anticipated) 2			
	Dissertation: Complexities in Economic Theory Committee: Eddie Dekel (Chair), Jason Hartline (Chair), Marciano Siniscalchi, Jeffrey Ely			
	M.A., Economics, Northwestern University 2018			
	B.A., Mathematics & Economics, University of Pennsylvania			2016
Fellowships &	Distinguished TA Award			2021-22
Awards	Dissertation University Fellowship, Northwestern University			2021-22
Teaching Experience	Teaching Assistant, Northwestern University		2017-2021	
	Econometrics (graduate), Econometrics (undergrad), Microeconomics (undergrad)			
Research Experience	Research Intern, Nicole Immorlica, Microsoft Research		2020	
	Research Assistant, Eddie Dekel, Northwestern University Project Intern, Yian Liu, Federal Reserve Board of Governors		2019	
			2015	
	Intern, Esen Onur, Commodity Futures Trading Commission		2014	
	Research Assistant, Susan	Wachter, University of Per	nnsylvania	2013-14
Conferences	Cornell ORIE (invited)		2021	
	Economics and Computation (invited)		2021	
	Risk, Uncertanty, and Decision (RUD)			2021
	Decision: Theory, Experiments, and Applications (D-TEA)		-TEA)	2021
	North American Summer Meeting of the Econometric Society		2021	
	Africa Meeting of the Econometric Society		2021	
	European Summer Meeting of the Econometric Society		2021	
	World Congress of the Game Theory Society (GAMES)		2021	
	Foundations of Computer Science (FOCS)		2020	
	Econometric Society Winter Meeting (Europe)		2020	
	Young Economists Symposium (YES)		2020	
	Economics Graduate Student Conference (EGSC)			2020
	Midwest Theory Day			2018
Refereeing	American Economic Revie	w, Journal of Mathematic	al Economics	

Job Market Paper

"High-Dimensional Decision Theory"

Abstract: This paper incorporates time constraints into decision theory, via computational complexity theory. I use the resulting framework to better understand common behavioral heuristics known as choice bracketing. My main result shows that a time-constrained agent who satisfies the expected utility axioms must have a Hadwiger separable utility function. This separability condition is a relaxation of additive separability that allows for some complementarities and substitutions but limits their frequency. One implication of this result is that a time-constrained agent may be better off violating the expected utility axioms. This can occur when the agent wants to maximize the expected value of a utility function that is not Hadwiger separable.

Other papers

"Mechanisms for a No-Regret Agent: Beyond the Common Prior" (with J. Hartline, A. Johnsen)

Abstract: This paper studies a rich class of single-agent policy design problems that includes monopoly regulation, contract design, and Bayesian persuasion as special cases. Most existing solutions either (a) assume a common prior belief over the environment, or (b) make no prior knowledge assumptions and optimize against the worst case. We show that, in repeated settings with rich feedback, we can approximate the superior performance of (a) while preserving the robustness of (b). We develop simple calibrated policies that ensure vanishing or bounded regret, relative to the ex-post-optimal static policy. Our guarantees are prior-free and hold even in highly non-stationary environments. They rely on novel behavioral assumptions that capture concepts like rationality" or unpredictability" without relying on beliefs. These new approaches are needed because we do not treat the agent's behavior as exogenous.

"Statistical Policy Design"

Abstract: In many settings, understanding an agent's beliefs can be the difference between a successful policy and one that fails dramatically. Unfortunately, in many instances, the rich behavioral or survey data needed to identify an agent's beliefs may not be available. In this paper, I propose a modeling assumption that bypasses this issue, and show that it can highlight important policy trade-offs not captured by existing models. The core idea is straightforward: if the available data convincingly demonstrates some fact about the world, the agent should believe that fact. Otherwise, her beliefs are left unspecified. I develop this approach in the context of incomplete-information games where a policymaker commits to a policy, an agent responds, and both have access to a public dataset. It turns out that policies that are too complex may be suboptimal because they lead to unpredictable behavior. To balance the benefits of policy complexity with its costs, I develop a method called strategic regularization and motivate it through both theoretical guarantees and illustrative examples.

Languages

English (fluent), German (native), Spanish (intermediate)

References

Professor Eddie Dekel Department of Economics Northwestern University 2211 Campus Drive Evanston, IL 60208 847.491.4414 dekel@northwestern.edu

Professor Marciano Siniscalchi Department of Economics Northwestern University 2211 Campus Drive Evanston, IL 60208 847.491.5398

marciano@northwestern.edu

Professor Jason Hartline Department of Computer Science Northwestern University 2233 Tech Drive Evanston, IL 60208 847.467.0280 hartline@northwestern.edu

Professor Jeffrey Ely Department of Economics Northwestern University 2211 Campus Drive Evanston, IL 60208 847.491.8208

jeffely@northwestern.edu