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 Date of birth 8 February 1996

RESEARCH FIELDS Macroeconomics, Spatial Economics, International Trade

EDUCATION **University of Chicago**, Chicago, Illinois USA

 Ph.D. in Economics 2017 – 2023 (expected)
 M.A. in Economics 2019

PLACEMENT

Co-directors: Ufuk Akcigit, uakcigit@uchicago.edu, +1 (773) 702-0433
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Coordinator: Kathryn Falzareno, kfalzareno@uchicago.edu, +1 (773) 702-3026

REFERENCES

Esteban Rossi-Hansberg (Chair)	Fernando Alvarez
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Associate Professor	Associate Professor
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Duke University, Durham, North Carolina USA

B.Sc. in Economics (High Distinction), B.A. in Mathematics, *Summa Cum Laude*, 2017

WORKING PAPERS “A Dynamic Spatial Knowledge Economy” (**Job Market Paper**)

Cities have long been thought to drive economic growth, but analyses of spatial policy have largely ignored the effects of such policies on growth. In this paper, I develop a spatial endogenous growth model in which heterogeneous agents make fully forward-looking migration decisions and human capital investments over the life cycle. Local externalities in human capital investment drive both agglomeration and growth. I show that the growth rate depends on the spatial distribution of human capital, making it sensitive to spatial policies. I solve the model numerically, calibrating it to data on U.S. metropolitan areas. I then solve for the allocation that would be chosen by a benevolent national planner. I find that, relative to the decentralized allocation, the planner’s allocation features more concentration in the largest city, higher levels of human capital overall, and faster growth. Commonly-proposed place-based policies fall far short or even oppose the planner’s policies.

“Agriculture, Trade, and the Spatial Efficiency of Global Water Use” (with [T. Carleton](#) & [I. Nath](#))

The agricultural sector is the dominant user of water, but its use is distorted by two key forces: (i) farmers’ imperfect property rights over water extraction and (ii) the various taxes and subsidies on their products. Using a rich collection of detailed geospatial data, we document that these patterns are pervasive across the globe. We then build a dynamic spatial general equilibrium model to quantify the potential welfare gains of reallocating global water use in agricultural production. In the model, each local water stock evolves endogenously as nearby farmers extract water as if from a common pool. Farmers’ choices of which crop to grow and how much to produce respond, in turn, to the level of the local stock and the prices they face in the global market. We quantify the model such that it rationalizes observed patterns in agricultural production and trends in water availability out of steady state. With the quantified model in hand, we consider how counterfactual agricultural policies shift water use and affect welfare in the long run.

WORK IN PROGRESS	“Predicting Trade Elasticities in the US-China Trade War” (with J. Dingel , S. Heise , & F. Tintelnot) “Does Eating Local Reduce Emissions?” (with I. Nath)																														
PRESENTATIONS	2022 LACEA LAMES (scheduled), BFI Coase Project, UChicago (Capital Theory, Trade & Spatial working group, Applied Macro Theory lunch) 2021 UChicago (Capital Theory, Trade & Spatial working group, Applied Macro Theory lunch)																														
RESEARCH ASSISTANCE	University of Chicago J. Dingel and F. Tintelnot Jan. 2019 – June 2020 H. Uhlig and D. Krüger Feb. 2019 – June 2020 B. Neiman and J. Vavra May 2019 – Nov. 2019																														
TEACHING	University of Chicago <table> <tr> <td>TA</td><td>Spatial Economics (PhD)</td><td>E. Rossi-Hansberg</td><td>Winter 2022</td></tr> <tr> <td>TA</td><td>Theory of Income III (PhD)</td><td>F. Alvarez</td><td>Spring 2021</td></tr> <tr> <td>TA</td><td>International Trade (U)</td><td>F. Tintelnot</td><td>Winter 2021</td></tr> <tr> <td>TA</td><td>Managing the Firm in the Global Economy (MBA)</td><td>J. Dingel</td><td>Winter 2020–21</td></tr> <tr> <td>TA</td><td>Financial Markets in the Macroeconomy (PhD)</td><td>V. Guerrieri</td><td>Spring 2020</td></tr> <tr> <td>TA</td><td>International Financial Policy (MBA)</td><td>R. Kekre</td><td>Spring 2020</td></tr> </table> Duke University <table> <tr> <td>TA</td><td>Intermediate Macroeconomics (U)</td><td>M. Connolly</td><td>Fall–Spring 2017</td></tr> </table>			TA	Spatial Economics (PhD)	E. Rossi-Hansberg	Winter 2022	TA	Theory of Income III (PhD)	F. Alvarez	Spring 2021	TA	International Trade (U)	F. Tintelnot	Winter 2021	TA	Managing the Firm in the Global Economy (MBA)	J. Dingel	Winter 2020–21	TA	Financial Markets in the Macroeconomy (PhD)	V. Guerrieri	Spring 2020	TA	International Financial Policy (MBA)	R. Kekre	Spring 2020	TA	Intermediate Macroeconomics (U)	M. Connolly	Fall–Spring 2017
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HONORS AND AWARDS	Margaret G. Reid Dissertation Fellowship Data Acquisition Grant Travel Grant Neubauer Fellowship Davies Fellowship Student Marshal Phi Beta Kappa	University of Chicago Economics Department University of Chicago Economics Department Princeton Initiative: Macro, Money and Finance University of Chicago Social Sciences Division Duke University Economics Department Duke University Duke University	2022–23 2019 2019 2017–22 2016 2016 2016																												
SERVICE	Cohort Representative Coordinator: Trade & Spatial working group Peer Mentor Coordinator: Applied Macro Theory lunch	2020–22 2020–21 2019–21 2019–20																													
REFeree	<i>Journal of Political Economy</i> , <i>Review of Economics and Statistics</i>																														
TECHNICAL SKILLS	Python, Julia, Matlab, Stata, L ^A T _E X, Unix, Make																														