

Elizaveta Gonchar

ECONOMIST | GEOSPATIAL ANALYST

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Education

PhD in Economics

GEORGIA INSTITUTE OF TECHNOLOGY – GPA: 4.0/4.0

Major Fields: International Trade, Development Economics

Minor Field: Quantitative Psychology

Advisor: Dr. Usha Nair-Reichert

Expected: Aug. 2023

Atlanta, GA

MS in Geographic Information Science & Technology

GEORGIA INSTITUTE OF TECHNOLOGY – GPA: 4.0/4.0

Advisor: Dr. William J. Drummond

May 2022

Atlanta, GA

MS in Economics

GEORGIA INSTITUTE OF TECHNOLOGY – GPA: 4.0/4.0

May 2019

Atlanta, GA

MA in Economics

INDIANA UNIVERSITY – GPA: 3.53/4.0

Concentrations: Microeconomic Theory, International Trade

Jan. 2018

Bloomington, IN

MSc in Economics

BARCELONA GRADUATE SCHOOL OF ECONOMICS

Masters of Science in Economics and Finance awarded by Universitat Pompeu Fabra.

July 2015

Barcelona, Spain

BS in Economics

ARIZONA STATE UNIVERSITY – GPA: 3.64/4.0

Minors: Mathematics, German

Certificate: International Business

Study Abroad: London School of Economics Summer Program (London, England) – Summer Program 2013

– Courses: Economics of European Integration, International Economics.

ASU Managerial Accounting (Florence, Italy) – Summer 2012

Aug. 2014

Tempe, AZ

Skills

Analytical Software: Stata, ArcGIS Pro, ArcMap, ERDAS Imagine, QGIS, Matlab

Programming Languages: R, Python (Core, ArcPy), SQL

Foreign Languages: – Native proficiency: English and Russian.

– Limited working proficiency: German and Ukrainian.

Productivity Software: \LaTeX , InDesign, Illustrator, ChatGPT

Experience

Graduate Research Assistant

SCHOOL OF PUBLIC POLICY - GEORGIA INSTITUTE OF TECHNOLOGY

Assisting with NSF-funded project titled “National Network for Critical Technology Assessment: A Pilot” under Dr. Cassidy Sugimoto.

Program objective: develop assessment capabilities for critical technologies for U.S. competitiveness and present insights to U.S. legislators.

Personal contribution: Developing novel analytical methods and decision support toolkit for situational awareness and identification of skill supply and flow for every metropolitan region and state of the United States.

Application space: of these methods include identifying and resolving workforce constraints on multibillion-dollar public and private investments in decarbonization and advanced manufacturing, currently supporting resource allocation and strategy for multiple U.S. federal executive branch agencies (DoD, NSF, U.S. Manufacturing Institutes), with further engagements being developed for other agencies, multiple large private firms and regional as well as national training organizations.

Oct. 2022 - PRESENT

Atlanta, GA

Remote Consultant

Feb. 2023

UNIVERSITY OF DENVER

(Remote)

Remote consultant for research fellow in the Sié Chéou-Kang Center and Oxfam America Joint Postdoctoral Fellowship Program.

Tasks: Collected and cleaned geographic data for mining companies in select African countries and provided corresponding maps.

Graduate Teaching Assistant

May - Dec. 2022

SCHOOL OF ECONOMICS - GEORGIA INSTITUTE OF TECHNOLOGY

Atlanta, GA

Course Assisted: ECON 2101, ECON 2105, ECON 4060, ECON 6431

Graduate Research Assistant

Jan. - May 2022

SCHOOL OF ECONOMICS - GEORGIA INSTITUTE OF TECHNOLOGY

Atlanta, GA

Graduate Teaching Assistant

Aug. 2017 - Dec. 2021

SCHOOL OF ECONOMICS - GEORGIA INSTITUTE OF TECHNOLOGY

Atlanta, GA

Courses Taught: ECON 2101: The Global Economy (Online)

- 2 Semesters: Summer 2020 (53 students), Spring 2021 (73 students)

Courses Assisted:

- Undergraduate: ECON 2100, ECON 2101, ECON 2105, ECON 2106, ECON 3110, ECON 4350, ECON 4415, ECON 4803
- Graduate: ECON 6106, ECON 7012, ECON 7013

Graduate Assistant

Aug. 2015 - May 2017

SCHOOL OF ECONOMICS - INDIANA UNIVERSITY

Bloomington, IN

Courses Assisted:

- Undergraduate: ECON 201, ECON 202 (In-Person & Online), ECON 321

Honors & Awards

Apr. 2022	Economics Graduate Student Instructor of the Year , Center for Teaching and Learning (CTL)	Atlanta, GA
Nov. 2021	GIS Day Map Competition Winner , School of City and Regional Planning	-
Aug. 2017 - May 2021	President's Fellowship Award , Georgia Institute of Technology	-
Apr. 2021	Senator of the Year , Graduate Student Government Association	-
Apr. 2020	Rookie Senator of the Year , Graduate Student Government Association	-
Feb. 2014	1st Place in Microeconomics, Macroeconomics, International Business , Phi Beta Lambda Winter Leadership Conference	Tempe, AZ
Aug. 2013 - May 2014	Recipient , C.R. Krimminger Fund Scholarship	-
Summers 2012 & 2013	Recipient , W.P. Carey School of Business Study Abroad Scholarship	-

Extracurricular

INSTITUTIONAL INVOLVEMENT

Oct. 2022 & Mar. 2023	Application Reviewer , President's Undergraduate Research Award (PURA) Salary Award	Atlanta, GA
FY 2022 & 2023	Graduate Student Representative , Mandatory Student Fee Advisory Committee	-
Sep. 2019 - Aug. 2021	Graduate Senator , Joint Finance Committee	-
FY 2021	Graduate Student Member , Joint Policy Response Committee	-
FY 2021	Graduate Student Member , Joint Campus Organizations Committee	-
FY 2020	Graduate Student Representative , Parking and Transportation Advisory Committee	-

ORGANIZATIONAL INVOLVEMENT

Omicron Delta Epsilon

Feb. 2019 - Present

GEORGIA INSTITUTE OF TECHNOLOGY

Atlanta, GA

Leadership Position:

- Vice President of Events - 2022

Graduate Student Government Association

GEORGIA INSTITUTE OF TECHNOLOGY

Leadership Position:

- Senator in Graduate Student Senate – Sep. 2019 - Sep. 2021

Sep. 2019 - Sep. 2021

Atlanta, GA

Phi Beta Lambda

ARIZONA STATE UNIVERSITY

Leadership Positions:

- President – 2014
- Vice President of Communications – 2013 - 2014
- Executive Vice President – 2012 - 2013
- Director of Operations of Business Skills Day 25 – 2013

Jan. 2012 - May 2014

Tempe, AZ

ASU German Club

ARIZONA STATE UNIVERSITY

Leadership Position:

- Vice President of Events – 2012 - 2013

Sep. 2011 - May 2014

Atlanta, GA

ASU Russian Student Association

ARIZONA STATE UNIVERSITY

Leadership Position:

- President – 2012 - 2013

Nov. 2011 - May 2013

Atlanta, GA

Working Papers

“Effect of COVID-19 on Domestic Trade Flows: A Spatial Autoregressive Approach to Estimate the Response of Colombian Trucking Flows”

Abstract Interregional trade, particularly in the trucking sector, plays a crucial role in numerous economies and Colombia is no exception. The unprecedented shock of the COVID-19 pandemic had asymmetric effects on economies worldwide. In this study, I investigate and quantify the impact of international trade exposure by examining the changes in trade flow dynamics within the Colombian domestic trucking network in response to the spread of COVID-19 and the implementation of mitigation policies. Utilizing data on Colombian trucking from 2018 to 2021 and geospatial trade exposure characteristics, I construct a trade exposure measure employing a factor analysis approach. Thereafter, I implement a panel-data spatial autoregressive (SAR) model estimation to examine how trade exposure influenced the response of Colombian domestic trucking flows, measured as the value of goods traded between municipalities, to COVID-19 spread mitigation policies. My findings underscore the importance of accounting for spatial autocorrelations when analyzing trade flows. Furthermore, the results suggest that a municipality's trading role before the COVID-19 pandemic did indeed influence its vulnerability to the pandemic and the associated spread-mitigating policies.

“Trade in the Spotlight: Enhancing Gravity Model Predictions with Nightlights- and Population-Weighted Distance Measures” (Co-Author: Ian Helfrich)

Abstract The distribution of consumers and producers across and within countries significantly influences the pattern of economic production. In this paper, we investigate the implications of spatial factors on gravity model estimates of trade by introducing a novel geodesic distance measure between countries, using nightlights-weighted and population-weighted centroids as endpoints for bilateral distance measures. Traditional gravity models of international trade have relied on time-invariant measures of bilateral distance between nations, including distance between national capitals, geographic centroids, and weighted centroids based on the largest population centers. By employing annual global population and nighttime lights density rasters to identify the central spatial tendency of producers and consumers, we estimate time-varying directional distance measures between origin-destination pairs. Our approach demonstrates increased accuracy and adaptability across various administrative boundaries, offering improved comparability across different research applications. The paper showcases the application of this method to the United States interstate commerce and global trade flows, highlighting the flexibility and reliability of our approach for a variety of empirical considerations.

“Estimating the Role of Trade Intermediaries in Colombia”

Abstract In this paper, I analyze the role of intermediary firms, defined as firms that engage only in retail or wholesale capacities, in Colombia. Using Colombian transaction-level customs data for 2011 through 2016, I characterize the presence of intermediaries in international trade over time. I find that the distribution of the share of firms and share of values are relatively consistent over time. Gravity's effect in trade is affirmed in the dynamics of firms' exports; however, I identify a trend in imports that diverge from the literature which has predominantly focused on developed countries for empirical estimation. This paper contributes to the literature by presenting a comprehensive overview of the types of firms conducting trade while considering a developing country.