# Elizaveta Gonchar

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● Spatial Economist - Bridging Economic Theory and GIS Techniques to Develop Macro Insights from Micro Data ●

## EDUCATION

**PhD in Economics** — Georgia Institute of Technology (Georgia Tech) Atlanta, GA **Aug. 2024**

**Dissertation:** ''Spatial Dimensions of Economic Modeling: Interdisciplinary Approaches to Labor, Trade, and Networks''

**Major Fields:** International Trade, Development Economics | **Minor Field:** Quantitative Psychology

**Relevant Courses:** Econometrics (1 & 2), Development Economics (1 & 2), Big Data and Security, GIS System Design & Management

**Awards:**
- Senator of the Year + Rookie Senator of the Year — Graduate Student Government Association
- Economics Graduate Student Instructor of the Year — Center for Teaching and Learning

**Involvement:**
- Graduate Senator — Graduate Student Senate + Joint Finance Committee

**MS in Geographic Information Science & Technology** — Georgia Tech Atlanta, GA **May 2022**

**MSc in Economics** — Barcelona Graduate School of Economics (Barcelona, Spain) **July 2015**

**BS in Economics** — Arizona State University Tempe, AZ **Aug. 2014**

**Minors:** Mathematics, German | **Certificate:** International Business | **Study Abroad:** London School of Economics - 2013 Summer Program

## SKILLS

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|---|---|---|---|
| **Programming** | R, Python (core, ArcPy, Pandas), SQL | **Analytical Tools** | Stata, ArcGIS Pro, QGIS, MATLAB, ERDAS Imagine |
| **Languages** | Native: English, Russian \| Basic: German, Ukrainian | **Software Tools** | LaTeX, Adobe InDesign/Illustrator, Jira |

## EXPERIENCE

**Research Analyst** — Carnegie Mellon University (Remote) **Aug. 2023 - Present**

- Providing economics and data visualization expertise to continuing develop of the Workforce Insights Tool for the R.K. Mellon project (2023-2024) and Workforce Supply Chains Initiative (2025), supporting labor market analyses across 380+ U.S. metro areas.
- Collaborating on a research paper (in preparation for submission) simulating regional labor markets and the CHIPS Act.
- Conducting potential labor supply simulations and analyses for subaward stakeholders, presenting methodology and results and technical documentation, and contributing to stakeholder reports.

  TECHNICAL R, Stata, ArcGIS Pro, GitHub, Jira  INDUSTRY Labor Economics, Project Management, Stakeholder Consulting

**Graduate Teaching Assistant (Recurrent)** — School of Economics - Georgia Tech (Atlanta, GA) **Aug. 2017 - Aug. 2025**

- Taught 2 semesters of ECON 2101: The Global Economy (126 students total) and supported 20 courses across 11 semesters, directly mentoring 1,356 students through recitations, exam reviews, grading (written/Scantron), and office hours.
- Streamlined course logistics for faculty: proctored exams, developed assessments, and provided technical support for classrooms.

  TECHNICAL OBS, Adobe Premiere  INDUSTRY Teaching, Presenting, Undergraduate Economics, Media Creation

**Graduate Research Assistant** — School of Public Policy - Georgia Institute of Technology (Atlanta, GA) **Oct. 2022 - Aug. 2023**

- Assisted with NSF-funded project titled *"National Network for Critical Technology Assessment: A Pilot."*
- Developed analytical methods and a decision support toolkit for situational awareness and identification of potential labor supply and flow for every MSA and state labor in the United States.
- Built first-generation RShiny application for labor supply simulations.
- Drafted *"Workforce Insight Tool Methods Report"* outlining the methods and tool developed.

  TECHNICAL R, ArcGIS Pro  INDUSTRY Policy Research, Interdisciplinary Collaboration, Grant-Based Research

**Consultant** — University of Denver (Remote) **Feb. 2023**

- Collected and cleaned geographic data for mining companies in select African countries and produced corresponding maps for research.

  TECHNICAL ArcGIS Pro, QGIS  INDUSTRY Project Management, Consulting, Technical Documentation

## RESEARCH

**Build It and They Will Come? US Regional Labor Composition and Readiness to Meet Skill Demand Shocks from CHIPS and Science**

TECHNICAL R, RShiny, Stata, Python, AWS  INDUSTRY Microeconometrics, Industrial Policy, U.S. Labor Data (O*NET, CPS, ACS)

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

TECHNICAL Stata, ArcGIS Pro  INDUSTRY Spatial Econometrics, Big Data, Factor Analysis, Colombian Trade Data

**Trade in the Spotlight: Enhancing Gravity Model Predictions with Nightlights- and Population-Weighted Distance Measures**

TECHNICAL Stata, ArcGIS Pro, Python  INDUSTRY International Trade, Raster Data, Big Data