

MUHAMMET FURKAN KARAKAYA

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EDUCATION

SUNY, BINGHAMTON UNIVERSITY

Political Science and International Relations, **Ph.D.**

Binghamton, NY

Aug 2021-Present

- Focus: Political parties, elections, representation, and party systems, specialized in computational social science.
- **Dissertation:** “*A Computational Approach to Party Cohesion: When Do Parties Use the Broad-Appeal Strategy in Different Party Systems?*” with Dr. Robin Best

UNIVERSITY OF DELAWARE

Political Science and International Relations, **M.A.**

Newark, DE

Aug 2019-Aug 2021

- Focus: Political and economic issues related to political participation, race, elections.
- **Thesis:** “*Suppression Effects of Natural Disasters on Voter Turnout: COVID-19 and the 2020 US Presidential Primary Election*” with Dr. Benjamin Bagozzi

PENNSYLVANIA STATE UNIVERSITY

School of International Affairs, **M.I.A.**

State College, PA

Aug 2016-Dec 2018

- Focus: Political and economic issues related to the Middle East
- **Thesis:** “*The US War on Terrorism and the US Policy Towards Syrian Kurds*” with Dr. Flynt L. Leverett

UNIVERSITY OF MARMARA

School of Economic and Administrative Sciences, **B.A. Economics**

Istanbul, Turkey

Sep 2008-Jul 2012

- Gained Economics undergraduate degree.

EXPERIENCE

BINGHAMTON UNIVERSITY

Public Policy Department

Binghamton, NY

Oct 2024-Present

Research Assistant for Dr. Vincent Reitano

- Support research on quantitative methodology parts of multiple research projects on public policy.
- Co-authored for multiple research paper projects (listed below).

BINGHAMTON UNIVERSITY

Graduate School

Binghamton, NY

Jan 2022-Present

Graduate Academic Coding and Statistical Consultancy

- Support graduate students with their research regarding coding languages, including STATA, R programming, SQL, and Python
- Organizing training workshops in coordination with university departments.

BINGHAMTON UNIVERSITY

Political Science Department

Binghamton, NY

Dec 2024-Jan 2025

Lecturer for PLSC 398, Social Data Analytics Using Python

- Self-designed and taught a comprehensive course on using Python for data analysis in social science, covering data cleaning, visualization, and statistical analysis of both structured and unstructured datasets.
- Improved skill of students in applying computational and statistical techniques to real-world social science problems, preparing them for data-driven research and policy-making.

BINGHAMTON UNIVERSITY

Student Affairs Assessment and Solutions for Engagement

Binghamton, NY

Jan 2024-Oct 2024

Data Analyst

- Implemented extract, transform, load (ETL) tasks, and integrating data from various sources for reports and analyses.

- Created accurate, reproducible reports and visualizations for the university.

BINGHAMTON UNIVERSITY

Department of Teaching and Learning and Educational Leadership

Research Assistant for Dr. Hyejung Kim

- Supported research on autism and its diagnosis.
- Co-authored for a research paper project (listed below).

Binghamton, NY

Jan-2022-May-2022

UNIVERSITY OF DELAWARE

Legal Studies

Graduate Assistant

Newark, DE

Jan 2020-Mar 2020

- Assisted Dr. Wayne Batchis with curricular activities.
- Served as a liaison between faculty and administrative departments, facilitated coordination of study programs.

THE CENTER FOR GLOBAL STUDIES, PENNSYLVANIA STATE UNIVERSITY

Internship

State College, PA

Jan 2019-May 2019

- Supported federal and university grant reporting and evaluation with research and data entry
- Assisted to promoting program and co-sponsored events

SCHOOL OF INTERNATIONAL AFFAIRS, PENNSYLVANIA STATE UNIVERSITY

Teaching Assistantship

State College, PA

Jan 2019-May 2019

- Assisted to Dr. Sophia McClennen in the Cross-Cultural Conflict Resolution course

VAN PELT LIBRARY, UNIVERSITY OF PENNSYLVANIA

Cataloging Arabic and Ottoman Manuscripts

Philadelphia, USA

Sep 2015-Nov 2015

- Transliteration of Arabic and Ottoman Manuscripts, which were written in the 18th 19th 20th centuries.

ILEM -SCIENTIFIC STUDIES ASSOCIATION

Course Assistant for Middle Eastern Politics

Istanbul, Turkey

Feb - May 2014

- Worked as a teaching assistant for Dr. Ahmet Uysal in the Advanced Studies Program

MESUT KABATAS SMMM

Accountant Intern

Istanbul, Turkey

Sep 2008 - Sep 2010

- Assisted to process information about taxes and insurance through computer programs including ETA, Microsoft Excel, and Word
- Dealt with customers about official taxes and insurance documents. Fulfilled official correspondence about tax, insurance, and procedures for opening new companies.

PUBLICATIONS

REFEREED JOURNAL ARTICLES

- Begdache, Lina, Eeshah Ahmed, Sana Malik, and Muhammet Furkan Karakaya. "Dental Anxiety and Its Association with Dietary Intake and Food Groups: A Cross-Sectional Study." *Dentistry Journal* 11, no. 10 (2023): 240.
- Kim, H., Karakaya, M. F., Skinner, M., & Baker, D. (2025). A systematic literature review of racial disproportionality in autism in the US. *Journal of Autism and Developmental Disorders*, 55(3), 1010-1030.

WORKS IN PROGRESS

- Karakaya, Muhammet Furkan, "A Computational Approach to Party Cohesion: When Do Parties Use the Broad-Appeal Strategy? An Ethnic Party from Turkey"
- Karakaya, Muhammet Furkan, "How do Parties Implement Broad-Appeal Strategies in U.S. Congressional Elections?"
- Jones, P. A., Karakaya, M. F., & Reitano, V. *Examining the evolution of online tax and fee payment systems.*

University of Alabama at Birmingham & Binghamton University under review by the International Journal of Public Administration.

- Karakaya, M. F. *Effects of co-ethnic terrorism on ethnic voting: Kurdish voters in Turkey.*
- Karakaya, M. F. *A blessing or curse? Effects of domestic terrorism on cost of electoral contestation in electoral authoritarian regimes.*
- Karakaya, M. F. *Party vote share and cost of voting: The 2020 House of Representative election.*

CONFERENCE PRESENTATIONS AND TALKS

- 2024 “How do Parties Implement Broad-Appeal Strategies in U.S. Congressional Elections?” with Robin Best at the 120th *American Political Science Association Annual Meeting*
- 2024 “A Computational Approach to Party Cohesion: When Do Parties Use the Broad-Appeal Strategy? An Ethnic Party from Turkey” with Robin Best at the 81st *Midwest Political Science Association Annual Meeting*
- 2023 “Graduate Academic Coding and Statistical Consultancy Introduction Talk”
Graduate Student Orientation Meeting, Binghamton University
- 2023 “Suppression Effects of Natural Disasters on Voter Turnout: COVID-19 and the 2020 United States Presidential Primary Elections”
The International Conference on Disaster Management: Global Pandemics and Their Impact at Binghamton University.
- 2023 “Python in One Hour”
Graduate Academic Coding and Statistical Consultancy Workshop, Binghamton University [available here](#)
- 2023 “Online Jungle – Finding a Coding Community on the Internet”
Graduate Academic Coding and Statistical Consultancy Workshop, Binghamton University [available here](#)
- 2022 “Python for Beginners” with Sanket Rathod
Graduate Academic Coding and Statistical Consultancy Workshop, Binghamton University [available here](#)
- 2022 “Coding World: Tools and Languages” with Sanket Rathod
Graduate Academic Coding and Statistical Consultancy Workshop, Binghamton University [available here](#)
- 2022 “Conducting a Statistical Project with STATA and R Programming.”
Graduate Academic Coding and Statistical Consultancy Workshop, Binghamton University [available here](#)

SPECIALIZED EDUCATION

İSAR - ISTANBUL RESEARCH AND EDUCATION FOUNDATION

Istanbul, Turkey

Scholarship and Education

Sep2010-Sep 2014

- Granted for an extracurricular honors program focusing on Modern and Classical Arabic, Islamic Disciplines, Human and Social Science Courses
- Completed 72 credits of seminars.

QASID ARABIC INSTITUTE

Amman, Jordan

Language Center

May 2014-Aug 2014

- Studied abroad program to improve Arabic language and seminars on Jordanian and Islamic studies.

LANGUAGES

- Turkish (Native); English (Professional); Arabic (Intermediate); Ottoman Turkish (Intermediate)

RESEARCH INTERESTS

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|---------------------------------------|---------------------|--|
| • Comparative Politics | • Representation | • Computational Methods and Machine Learning |
| • Political Parties and Party Systems | • Voting Behavior | • Conducting Data-driven projects through Harvard University Dataverse |
| • Party Competition | • American Politics | |
| • Elections and Electoral Politics | • Research Methods | |

SKILLS

- | | | |
|--|---|--|
| <ul style="list-style-type: none">• STATA• R• Python• SQL• SAS• HTML• JavaScript• LaTeX | <ul style="list-style-type: none">• Statistics• Data Wrangling• Web Scraping• Data Mining• Big Data• Textual Analysis• Survey Experiments• Visualization | <ul style="list-style-type: none">• Decision Trees• Random Forest• Clustering• Deep Learning• Neural Networks• GIS data• NVivo |
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