MARTIN KOSÍK

martin.kosiik@gmail.com

https://martin-kosiik.github.io/homepage/

EDUCATION

CERGE-EI, Prague   2021 - present
PhD in Economics

CERGE-EI, Prague   2019 - 2021
MA in Economics

Institute of Economic Studies, Charles University, Prague   2016 - 2019
Bachelor degree
Summa cum laude

RESEARCH VISITS

Kellogg School of Management, Northwestern University   September 2022 - December 2022
Invited by Nancy Qian

WORK EXPERIENCE

Research assistance on 'Conflict and Inter-Group Trade'   August 2020 - June 2022
lead by Vasily Korovkin and Alexey Makarin   *part-time*

· I helped with scraping documents on arbitration cases considered in Russian courts and I developed tools to extract useful information from the raw text (e.g., the names of defendants and plaintiffs), which combined machine learning and fuzzy string matching

Research assistance on 'Volební lavička' project   May 2018 - September 2019
lead by Michal Bauer, Julie Chytilová, and Filip Matějka   *part-time*

· Research project studying information acquisition of voters in Czech municipal elections
· This was done through creation of a website where politicians could fill in their platforms and voters could easily compare them
· My responsibilities included searching contact information on politicians, maintaining the databases of registered politicians, data cleaning and exploratory data analysis

TEACHING ASSISTANCE

Econometrics II (PhD sequence)   May 2022 - July 2022
Professor: Vasily Korovkin

Content: panel data methods (FE and RE, difference-in-differences, dynamic panel data models)

ACADEMIC WORK IN PROGRESS

Ethnic Procurement
with Vasily Korovkin and Pasha Andreyanov

· The role of ethnic ties in Russian public procurement auctions
· Large database of 20 million purchases with information on prices, detailed product categories, bureaucrats etc.
· I trained a recurrent neural network to predict ethnicity of bureaucrats and firm managers from their surnames

Optimal Targeting of Interventions to Reduce Crop Residue Burning
draft, slides (very preliminary)

· I apply an atmospheric model (HYSPLIT) to compute the average population exposure to pollution caused by crop residue burning across different locations in northwestern India
· The results are used to calculate spatially optimal policy for targeting of interventions to reduce crop residue burning
· I show that approximately optimal policy can be efficiently computed by reformulating the model as a multiple-choice knapsack problem

GRANTS

Charles University Grant Agency   March 2022
Martin Kosík as a co-researcher, Jan Žemlička as PI   *CZK 681,000 (≈ USD 29,042)*

for Advanced Neural Networks Architectures for Solving Heterogeneous Agent Models

HONORS, AWARDS, AND FELLOWSHIPS

2021 RSJ Second-Year Research Fellowship - first prize

- Awarded for the best research proposals submitted by MA or PhD students in economics at CERGE-EI

CERGE-EI Alumni Excellence Fellowship for 2020/2021

- awarded to second-year students who manage to pass the complete first-year general exams with a PhD pass and rank among the top three of their study cohort

2019 Deloitte Outstanding Thesis Nomination

- for exceptional bachelor's or master's theses defended at the Institute of Economic Studies of the Faculty of Social Sciences at Charles University (7 theses out of 127 nominated)

IES Excellence scholarship in 2016/2017 and 2017/2018

- Awarded to 10% students with the best GPA at the Institute of Economic Studies of the Faculty of Social Sciences at Charles University

COMPUTER SKILLS

Advanced	R (Tidyverse, sf, . . .), Python (Pandas, Tensorflow, Spacy, Scrapy, . . .), LaTeX
Intermediate	Google Earth Engine, QGIS, Stata, Matlab, Git, SQL

LANGUAGES

Czech	Native
English	Fluent
	CEFR level: C2 (per IELTS exam taken in 2022)
German	Intermediate

REFERENCES

Vasily Korovkin, Ph.D.
CERGE-EI
email: vasily.korovkin@cerge-ei.cz

doc. PhDr. Michal Bauer, Ph.D.
CERGE-EI, Charles University
email: michal.bauer@cerge-ei.cz

doc. RNDr. Filip Matějka, Ph.D.
CERGE-EI
email: filip.matejka@cerge-ei.cz