

# MARTIN KOSÍK

[martin.kosiik@gmail.com](mailto:martin.kosiik@gmail.com)

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

## EDUCATION

---

<b>CERGE-EI, Prague</b> PhD in Economics	2021 - present
<b>CERGE-EI, Prague</b> MA in Economics	2019 - 2021
<b>Institute of Economic Studies, Charles University, Prague</b> Bachelor degree Summa cum laude	2016 - 2019

## RESEARCH VISITS

---

<b>Kellogg School of Management, Northwestern University</b> Invited by Nancy Qian	September 2022 - December 2022
---	--------------------------------

## WORK EXPERIENCE

---

<b>Research assistance on ‘Conflict and Inter-Group Trade’</b> <i>lead by Vasily Korovkin and Alexey Makarin</i>	August 2020 - June 2022 <i>part-time</i>
---	---

- 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

<b>Research assistance on ‘Volební lavička’ project</b> <i>lead by Michal Bauer, Julie Chytilová, and Filip Matějka</i>	May 2018 - September 2019 <i>part-time</i>
--	---

- 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

---

<b>Econometrics II (PhD sequence)</b> <i>Professor: Vasily Korovkin</i> Content: panel data methods (FE and RE, difference-in-differences, dynamic panel data models)	May 2022 - July 2022
---	----------------------

## 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 ( $\approx$  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

---

<b>Advanced</b>	R (Tidyverse, sf, ...), Python (Pandas, Tensorflow, scikit-learn, ...), $\text{\LaTeX}$
<b>Intermediate</b>	Google Earth Engine, QGIS, Stata, Matlab, Git, SQL

## LANGUAGES

---

<b>Czech</b>	Native
<b>English</b>	Fluent
	CEFR level: C2 (IELTS exam taken in 2022)
<b>German</b>	Intermediate

## REFERENCES

---

**Vasily Korovkin, Ph.D.**  
CERGE-EI  
email: [vasily.korovkin@cerge-ei.cz](mailto:vasily.korovkin@cerge-ei.cz)

**doc. PhDr. Michal Bauer, Ph.D.**  
CERGE-EI, Charles University  
email: [michal.bauer@cerge-ei.cz](mailto:michal.bauer@cerge-ei.cz)

**doc. RNDr. Filip Matějka, Ph.D.**  
CERGE-EI  
email: [filip.matejka@cerge-ei.cz](mailto:filip.matejka@cerge-ei.cz)