


Filip Mandys

PhD Economics

 fil.mandys@seznam.cz

 +44 7564 029 767

 Czech, British

 [Link to LinkedIn](#)

 [Personal Website](#)

Research Interests: energy economics, labour economics, applied econometrics, environmental economics, corporate finance, alternative fuel vehicles.

Education

- 2016 – 2021 **PhD Economics, University of Surrey, UK**
Thesis title: Demand and pricing dynamics of alternative and conventional fuel vehicles in the United Kingdom.
- 2015 – 2016 **MSc International Economics, Finance & Development, University of Surrey, UK**
(Distinction – Overall 89%)
Dissertation title: An empirical analysis of the influence of financial development on economic growth in the former Eastern Bloc countries.
- 2012 – 2015 **BSc Economics and Finance, University of Surrey, UK**
(First Class Honours – First Year: 80%, Second Year: 80%, Third Year: 86%)
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Work Experience

- 2022 – Present **Senior Researcher, Research Institute for Labour and Social Affairs (RILSA), Prague**
- Conducting policy research and analysis of the Czech labour market, and various topics in macroeconomics, in cooperation with the Czech Ministry of Labour.
 - As a principal investigator, leading a grant application for a 5-year project.
 - Analysing the economic impact of the current energy and geopolitical crisis for the Czech Republic Economic Outlook project in a large multi-national team.
- 2021 – 2023 **Research Consultant, European Investment Fund (EIF), Luxembourg**
- Applied research into investment aspects of European small and medium-sized enterprises, specifically private equity, venture capital, and business angels.
 - Design, implementation, and graphical & regression analysis of EIF Qualtrics survey results from the firms' CEOs.
 - Co-authoring and producing wide range of research papers, publications, market analysis, and presentations in a multi-national team.
 - Co-operating with international institutions, such as EIB or the University of Trier; experience with working independently and delivering ahead of schedule.
- 2020 (Apr. – Jul.) **Research Assistant, School of Economics, University of Surrey**
- Worked on “Levelized Cost of Solar Photovoltaic Electricity until 2035: Evidence from the United Kingdom” research paper (with M. Chitnis and R. Silva).
 - Constructed a contemporary dataset on the UK energy sector, applied the LCOE methodology, and conducted an extensive sensitivity analysis.
- 2019 – 2020 **Editor, School of Economics, University of Surrey**
- Edited online questions and answers for Begg et al. (2014) “Economics”, McGraw-Hill Education, 11th Edition (with E. Golson).
 - Created current questions and answers, and provided detailed feedback for each question to thoroughly supplement the textbook.

- 2017 – 2020 **Teaching Assistant, School of Economics, University of Surrey**
- Taught the “Introductory Economics” module; set test and exam papers for undergraduate students.
 - Marked assignments, test papers, and exam papers for modules such as labour economics, energy economics, microeconomics, and financial economics.
- 2014 – 2019 **Translator, Gengo, online**
- Translated documents, webpages and programmes on a professional level for English/Czech and English/Slovak language pairs.
- 2010 – 2012 **Internship, Embassy of the Czech Republic, Nairobi, Kenya**
- Analysed and translated political and economic documents for the embassy; assisted the chargé d'affaires with periodical reports and official documents.
- 2010 – 2012 **Founder and President of Kibera Library (voluntary work), Nairobi, Kenya**
- Collected books from schools, bookstores, embassies, and libraries, advertised the Kibera Library among the locals, helping the poorest children with education.

Publications

- Taneja, S. and Mandys, F. (2022). Drivers of UK Energy Expenditure: Promoting Efficiency and Curbing Emissions. *Energy Policy*, 167, 113042. [Link](#)
- Taneja, S. and Mandys, F. (2022). The Effect of Disaggregated Information and Communication Technologies on Industrial Energy Demand. *Renewable and Sustainable Energy Reviews*, 112518. [Link](#)
- Kraemer-Eis, H., Block, J., Botsari, A., Diegel, W., Lang, F., Legnani, D., Lorenzen, S., Mandys, F., and Tzoumas, I. (2022). EIF Private Equity Mid-Market Survey 2022: Market sentiment and impact of the current geopolitical & macroeconomic environment. *EIF*, 2022/085. [Link](#)
- Mandys, F. (2022). Household-specific Energy Expenditure and Inflation in the Czech Republic. *Policy Papers RILSA*, 4/2022. [Link](#)
- Kraemer-Eis, H., Block, J., Botsari, A., Diegel, W., Lang, F., Legnani, D., Lorenzen, S., Mandys, F., and Tzoumas, I. (2022). EIF Venture Capital Survey 2022: Market sentiment and impact of the current geopolitical & macroeconomic environment. *EconStor*, 2022/082. [Link](#)
- Mandys, F. (2022). Household-specific Energy Inflation in the Czech Republic. *Policy Briefs RILSA*, 9/2022. [Link](#)
- Botsari, A., Kupres, S., Lang, F., Legnani, D., and Mandys, F. (2022). EIF Business Angels Survey 2021/22: Market sentiment. *EconStor*, 2022/081. [Link](#)
- Kraemer-Eis, H., Botsari, A., Lang, F., and Mandys, F. (2021). EIF Private Equity Mid-Market Survey: Fund managers’ perception of EIF’s value added. *EconStor*, 2021/077. [Link](#)
- Mandys, F. (2021). Electric Vehicles and Consumer Choices. *Renewable and Sustainable Energy Reviews*, 142, 110874. [Link](#)

Working Papers

- The Transforming Automobile Industry: Demand for Conventional and Clean Automobiles** (*with S. Taneja*) submitted to *Journal of the European Economic Association*
- Quantifying the demand dynamics for alternative fuel vehicles versus conventional vehicles, while accounting for consumer heterogeneity, price endogeneity, and realistic substitution patterns. A large vehicle dataset is constructed, and a discrete-choice random-coefficient model (BLP) is applied.

The Search for an Affordable Clean Car: Pricing of UK Conventional and Clean Automobiles *revise and resubmit in Transportation: Part D*

Discovering key automobile characteristics that influence UK market prices of conventional and alternative fuel vehicles, and constructing quality constant hedonic price indices. A large, novel, and extensive dataset of vehicle sales, prices, and characteristics is manually constructed.

Climate Issues in Portfolio Investment Decisions: A Comparison of Private Equity and Venture Capital *(with L. Benz, J. Block, H. Kraemer-Eis, A. Botsari, and F. Lang) under review in Venture Capital*

Data from two EIF surveys is used to analyse and compare the underlying motives for private equity and venture capital firms to consider climate factors in the portfolio investment decisions.

Levelized Cost of Solar Photovoltaic Electricity until 2035: Evidence from the United Kingdom *(with M. Chitnis and R. Silva) revised and resubmitted to Patterns*

Finding and analysing historical and future costing dynamics of solar photovoltaic panels until 2035, and performing a sensitivity analysis to methods and assumptions.

Drivers of Solar Photovoltaic Panel Installation in the United Kingdom *(with S. Taneja) targeted for Energy Economics*

Examining the key drivers that motivate consumers to install solar photovoltaic and solar water heating panels in the United Kingdom. The Understanding Society dataset is employed, and the binomial and ordered logit regressions are applied.

Gender Diversity in Small and Medium-sized Enterprises *(with A. Botsari) targeted for Economics Letters*

Research into the key drivers of gender diversity in European small and medium-sized enterprises. Various CEO and firm characteristics are analysed and compared between private equity and venture capital investors.

Economic Outlook for the Czech Republic *(with D. Hovsepyan, B. Kurylo, R. Maialeh, J. Špeciánová, and Ľ. Unal)*

Extensive overview of the Czech labour market and its future outlook, focusing on the current macroeconomic situation, impact of inflation, energy crisis, remote working, and fiscal policies.

EIF Business Angels Survey 2021/22: Investing in Environment and Climate *(with H. Kraemer-Eis, A. Botsari, F. Lang, and D. Legnani)*

Extensive analysis of the implementation of climate-related considerations in investment decisions, in the area of business angel investing. A large dataset of the UK and 27 EU countries based on a 2021/22 EIF online survey is constructed.

ESG Considerations in the Investment Decisions of Private Equity, Venture Capital, and Business Angels: Evidence from Three Pan-European Surveys *(with H. Kraemer-Eis, A. Botsari, and F. Lang)*

Detailed analysis of the integration of ESG considerations and impact investing in the areas of private equity mid-market, venture capital, and business angel investing. An extensive dataset of the UK and 27 EU countries based on three EIF online surveys of 2020 is constructed.

Presentations and Conference Activity

- 2022 **European Investment Fund Conference with Nordic/Baltic VC Associations, Luxembourg.**
Presentation: VC market sentiment and impact of the current geopolitical environment.
- 2022 **European Investment Fund: 45 Minutes on the EU Venture Capital Market, Luxembourg.**
Presentation: VC market sentiment and impact of the current geopolitical environment.
- 2021 **European Business Angels Network Annual Congress, online.**
One of Europe's largest international private investment and entrepreneurship events.
- 2021 **1st International Association for Energy Economics International Online Conference.**
Presentation: Hedonic Pricing of Vehicle Characteristics, Safety, and Equipment in the UK Car Market ([Link](#)).

- 2020 **Clean, Healthy, and Sustainable Surrey Conference, University of Surrey.**
Presentation: Levelized Cost of Solar Photovoltaic Electricity until 2035: Evidence from the UK.
- 2020 **Role of Mass Media During Covid-19 Conference, Rammanohar Lohiya Avadh University.**
Presentation: Media Consumption During Covid: Evidence from Data and Real-time Statistics.
- 2019 **16th International Association for Energy Economics European Conference, Ljubljana.**
Presentation: Electric Vehicles and Consumer Choices ([Link](#)).
- 2018 **Department of Economics and Surrey Energy Economics Centre, University of Surrey.**
Presentation: Electric Vehicles and Consumer Choices.
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Media Coverage

- 2023 **Drahé energie připravily domácnosti o desetitisíce korun, Novinky.cz (in Czech).** [Link](#).
- 2022 **Živnostníci i neúplné rodiny. Vědci spočítali, koho energetická inflace trápí nejvíce, Aktuálně.cz (in Czech).** [Link](#).
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Computing Skills

Software: Stata, MATLAB, Qualtrics, Prolific, LaTeX, EViews, Microsoft Excel, Word, and PowerPoint.

Data Collection: Extensive experience in collecting and working with large scale data, as well as constructing new datasets. Experience with weighting data by different attributes, and handling incomplete data. Created, conducted, and analysed surveys on the Qualtrics and Prolific platforms.

OS: Expert in using and providing guidance in operating systems, both Windows OS and Mac OS.

Awards and Prizes

- 2021 **1st International Association for Energy Economics International Online Conference:** Awarded a full scholarship at the 1st IAEE International online conference.
- 2019 **16th International Association for Energy Economics European Conference:** Awarded \$500 for top student paper at the 16th IAEE European conference, *Ljubljana, Slovenia*.
- 2019 **16th International Association for Energy Economics European Conference:** Awarded a full scholarship at the 16th IAEE European conference, *Ljubljana, Slovenia*.
- 2015 **STARS Top Achievers Certificate:** Received for First class in the 3rd year of the university.
- 2014 **STARS Top Achievers Certificate:** Received for First class in the 2nd year of the university.
- 2014 **IBM UBC Certificate:** Awarded for reaching the semi-finals of the IBM Universities Business Challenge – a competition of running a firm.
- 2013 **STARS Top Achievers Certificate:** Received for a First class in the 1st year of the university.
- 2012 **Chancellor's Scholarship of the University of Surrey:** Awarded for top performance in IB.
- 2011 **SAT Reasoning Test:** Scored 2290/2400 (99.5+ percentile).
- 2009 **IGCSE ICE Award:** Distinction from University of Cambridge for top performance in IGCSE.

Languages

Czech (*native*), English (*native level*), Slovak (*fully intelligible to Czech*), French (*IB*), German (*studied*), Russian (*basic*), Hindi (*studying*).

Other Skills

Journal Peer-Reviewing: Recognised reviewer for Renewable and Sustainable Energy Reviews.

Grant applications: Experience with applying for research grants. Led a £250 000 grant application for a 5-year research project, focusing on the effect of investments into social infrastructure.

Memberships: Member of the American Economic Association.

Forex Trading: Trading currency pairs regularly on the trading platform.