

# Monika NOVACKOVA

ADDRESS: School of Global Studies, University of Sussex  
Falmer, Brighton  
BN1 9QJ, United Kingdom

PHONE: 0774 180 4494

EMAIL: [monika.novac@gmail.com](mailto:monika.novac@gmail.com)

CITIZENSHIP: Czech Republic, European Union. Indefinite Leave to Remain in the UK granted

Data scientist, climate economist and recent PhD graduate is searching for a job as data analyst or consultant in private sector. Demonstrable skills in advanced statistical analysis and econometric modelling using R, Python, STATA and Excel. Experienced in communicating concepts to co-workers from various backgrounds.

## RELEVANT WORK EXPERIENCE

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Current since 2017	<p>Data analyst in Sustainability, UNIVERSITY OF SUSSEX, Brighton <i>Application of statistical and economic models to analyse effects of droughts on food security in Kenya</i> Supervisors: Prof. Martin TODD, Dr. Pedram ROWHANI</p> <p>Collected data in a systematic and safe way. Analysed complex data and presented emerging conclusions and concepts. Developed statistical and econometric models using R and Excel. Meeting regular deadlines. Interacting with colleagues from diverse professional backgrounds to successfully work towards common goals.</p>
2015-2016	<p>Teaching at THE UNIVERSITY OF SUSSEX, Brighton <i>Climate Change Economics and Statistical Analysis in STATA</i></p> <p>Communicated complex ideas effectively to a range of audiences. Sensitive to the needs of others.</p>
2012-2013	<p>Data scientist at CENTRUM WISKUNDE &amp; INFORMATICA (CWI), Amsterdam <i>Statistical analysis and forecasting using R and SQL</i></p> <p>Experience in quantitative analysis. Ability to present and organise large amounts of information in a clear manner. Negotiating skills.</p>
2011	<p>Data analyst at PILSNER URQUELL, A.S., Prague <i>Market analysis at the large beer manufacturer</i></p> <p>Succeeded in a highly competitive application procedure. Using analytic and statistical skills accompanied with economic background for better description of beer market dynamics. Improved beer demand models. Presentation of concepts to the company's executive management.</p>

## EDUCATION

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2014-2018	<p><b>Ph.D. in ECONOMICS, University of Sussex, UK</b> Thesis: "Effects of Sea Level Rise in the United States and climate change perception in the United Kingdom"   <a href="#">Full version</a></p> <ul style="list-style-type: none"><li>• Managing of complex datasets in a range of different formats using Excel and R</li><li>• Analysis of both macro data and survey data</li><li>• Application of advanced statistical and econometric methods</li><li>• Regression models including instrumental variables and Heckman correction</li><li>• The Multisplit lasso and other machine learning methods</li><li>• The whole data analysis conducted in R</li></ul> <p>Advisors: Prof. Richard TOL, Dr. Alexander MORADI</p>
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## EDUCATION

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- 2013-2014    Ing. in ECONOMETRICS AND OPERATIONS RESEARCH  
Faculty of informatics and statistics, **University of Economics in Prague**  
Thesis: “Application of Time Series Analysis in Predictive Modelling”  
Advisor: Prof. Roman HUSEK
- 2011-2013    MSc in ECONOMETRICS AND OPERATIONS RESEARCH  
**Vrije University in Amsterdam**  
Thesis: “Forecasting of Daily Number of Calls for Firefighters”  
Advisors: Prof. Siem Jan KOOPMAN, Prof. Michael MASSMANN
- 2007-2010    Bc. in QUANTITATIVE METHODS IN ECONOMICS, **University of Economics in Prague**

## COMPUTER SKILLS

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- Advanced Knowledge:    Excel including contingency tables, statistical analysis, simulations and optimization using the Solver Add-In, R,  $\text{\LaTeX}$ , Word
- Intermediate Knowledge:    SQL, Python, Web-design (HTML, CSS, JavaScript): Level 1 course run by *Code First: Girls* completed in Autumn 2018  
(see my [Certificate of Completion](#))
- Basic Knowledge:    STATA, ArcGIS, Mathematical Programming (Lingo, Mpl)

## LANGUAGES

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- ENGLISH:    Fluent, PhD completed in English, TOEFL score 101 in 2014
- CZECH:    Native language
- GERMAN:    Basic

## OTHER ACTIVITIES AND ACHIEVEMENTS

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- 2018    Publication with R. Tol: “[Effects of sea level rise on economy of the United States](#)”, Journal of Environmental Economics and Policy. DOI:10.1080/21606544.2017.1363667
- 2017    Presenting at the International Conference of Economics and Development (ICED) Colombo, Sri Lanka, paper Effects of Sea level rise on land values in the United States
- 2013    Participation in the Econometric Game 2013 organized by the University of Amsterdam

## INTERESTS AND ACTIVITIES

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Learning and improving programming skills. At the moment, my main interest is improving Python including data analysis and statistical programming. I have completed a Web-development course run by *Code First: Girls* in Autumn 2018.

Sports: Running, Cycling, Snowboarding

References available on request