# Monika Novackova

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CITIZIENSHIP:    Czech Republic, EU. Indefinite Leave to Remain in the UK granted

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

## RELEVANT WORK EXPERIENCE

**Current since 2017**

Data analyst in Sustainability, UNIVERSITY OF SUSSEX, Brighton
*Application of statistical and machine learning methods to analyse effects of droughts on food security using R and Python, hands on data work*
Supervisors: Prof. Martin TODD, Dr. Pedram ROWHANI

Collected data in a systematic and safe way. Analysed complex data and presented emerging conclusions and concepts. Developed predictive models using R and Excel. Meeting regular deadlines. Working as a part of interdisciplinary team, collaborating with colleagues from diverse professional backgrounds to successfully work towards common goals.

**2015-2016**

Teaching at THE UNIVERSITY OF SUSSEX, Brighton
*Climate Change Economics and Statistical Analysis in STATA*

Communicated complex ideas effectively to a range of audiences. Utilized and improved my sensitivity to the needs of others.

**2013-2014**

WEBCOM A.S., TODAY CONICA MINOLTA IT SOLUTIONS CZECH, Prague
*Microsoft Dynamics consultant - trainee*

Getting experienced in Microsoft Dynamics CRM. Training for the position of CRM consultant. Work shadowing.

**2012-2013**

Data scientist at CENTRUM WISKUNDE & INFORMATICA (CWI), Amsterdam
*Statistical analysis and forecasting using R and SQL*

Applying methods of quantitative analysis and hands on data work. Presenting and organising large amounts of information in a clear manner. Negotiating skills.

**2011**

Intern in Data science at PILSNER URQUELL, A.S., Prague
*Market analysis at the large beer manufacturer*

Succeeded in a highly competitive application procedure. Using analytic and statistical skills accompanied with economic background for description and forecasting of beer market dynamics. Improved beer demand models. Presentation of concepts to the company's executive management.

## Computer Skills

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| Advanced Knowledge: | Python, R, Excel including contingency tables, statistical analysis simulations and optimization using the Solver Add-In, LaTeX |
| Intermediate Knowledge: | SQL, Git, Web-design (HTML, CSS, JavaScript): Level 1 course run by *Code First: Girls* completed in Autumn 2018 ([Certificate.pdf](Certificate.pdf)) |
| Basic Knowledge: | STATA, ArcGIS, Mathematical Programming (Lingo, Mpl) |

## Education

**2014-2018**  **Ph.D. in** Economics, **University of Sussex**, UK
Thesis: "Effects of Sea Level Rise in the United States and climate change perception in the United Kingdom"  | Full version
- Hands on data work
- Managing of complex datasets in a range of different formats
- Application of advanced statistical, econometric and ML methods including: Forward stepwise, Variance inflation factors, regularization, OLS, GLMs

Advisors: Prof. Richard Tol, Dr. Alexander Moradi

**2011-2013**  MSc in Econometrics and Operations Research
**Vrije University in Amsterdam**
Thesis: "Forecasting of Daily Number of Calls for Firefighters"
- Time series analysis, forecasting, (S)ARIMA models
- Forward stepwise and other econometric, statistical and ML methods
- SQL, working with raw data sets

Advisors: Prof. Siem Jan Koopman, Prof. Michael Massmann

**2010-2014**  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"

## 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

Learning and improving programming skills beyond statistical programming. I have completed a Web-development course run by *Code First: Girls* in Autumn 2018 and I am currently attending the Level 2 course in Python

Sports: Running, Cycling, Snowboarding

References available on request