



# LENKA KŘENKOVÁ

## MACHINE LEARNING SPECIALIST

LINKEDIN

GITHUB

### LANGUAGES

- English - Fluent
- Finnish - Novice
- Czech - Native
- German - Intermediate

### EXTRACURRICULAR ACTIVITIES

- Certification from Udemy for completing the "2020 Complete Python Bootcamp: From Zero to Here in Python" (August 2020).
- Certification from Udemy in "Python for Data Analysis and Visualization" (June 2020).
- Certification from Cambridge University in the English Language, Advanced Level (January 2017).
- The board member of a roller derby league Kallio Rolling Rainbow (since September 2019).

## PROFILE

Lenka is a Machine Learning Engineer with a Ph.D. title in Demographics and extensive professional experience as a Data Analyst. In addition to utilizing her proven skill set, she is eager to do hands-on work with data and advance her career as a Deep Learning Engineer at her future workspace. Lenka understands people around her well and considers public speaking as one of her main strengths.

## RECENT PROJECTS

### Meteorite Analysis

Datetime, Seaborn, Plotly, Matplotlib

An analysis of recorded meteorites created by using NASA API.

### New York Yellow Taxi Trips Analysis

Dask, Pandas, Folium, Plotly, Bokeh

An analysis of taxi trips across New York City as of January 2016.

### Trump Tweets Text Analysis

Numpy, Pandas, Altair, Seaborn, Wordcloud, Nltk, Textblob

A text analysis of tweets posted by Donald Trump with additional visualization.

### Helsinki City Bikes Data Analysis

Numpy

A data cleaning and data analysis of Helsinki City Bikes data using the Numpy library.

### Titanic Survival Analysis

Numpy, Pandas, Matplotlib, Seaborn, Sklearn, Statsmodels

An analysis of survival factors on the Titanic.

## SKILLS

**Programming Languages:** Python.

**Data Analysis:** BeautifulSoup, Datetime, Numpy, Pandas, Requests.

**Data Visualization:** Matplotlib, Plotly, Seaborn.

**Database Management:** SQL, SQLite.

**Machine Learning:** Scikit-learn.

**Other:** ArcGIS, Excel, SAS, SPSS.

## EXPERIENCE

### Machine Learning Specialist

Integrify | Helsinki, Finland | April 2020 - Present

### Postdoctoral Researcher

Kone Foundation and Population Research Institute Väestöliitto | Helsinki, Finland | September 2019 - December 2019

- Supported work on a large representative longitudinal research/survey with the initial sample of 5,000 respondents that prepared, collected, and analyzed data on generational transfers in Finland.
- In this work, the main responsibility was to conduct an extensive structured literature review on grandparental investments that supported further development of analytical and theoretical approaches used.

### Research grant recipient

Charles University | Prague, Czech Republic | March 2019 - December 2019

- Practical work on advanced stages of own Ph.D. research that used the combination of SPSS and Excel programs for nonparametric t-testing, logistic regressions, contingency tables, and fertility and recuperation analysis.
- The outcomes were presented at an international scientific conference as well as in an academic article, in the Finnish Yearbook of Population Research, and in the final report for the grant agency.

### Visiting Researcher

Population Research Institute Väestöliitto | Helsinki, Finland | September 2018 - November 2018

- Supported work on an international project that aimed to study partnership formations of people over 50 years of age.
- In this work, main responsibilities included extracting data from the UN database (UN World Marriage Data) and with the combination of SPSS and Excel programs performing basic descriptive data analysis and visualization, which stood as an initial analytical phase for the project.

### Academic Fellow (Erasmus Trainee)

Population Research Institute Väestöliitto | Helsinki, Finland | November 2017 - September 2018 and November 2018 - January 2019

- The initial stage of this work on personal research included literature and data overview, descriptive analyses, and visualizations mainly using a combination of Excel and SPSS programs with the outcomes presented at various public research seminars.
- Support analytical work on the project analyzing men's fertility in Finland mainly using Excel tools and contingency tables with the outcomes presented at various research seminars.

### Data Analyst and Survey Coordinator

Czech Statistical Office | Prague, Czech Republic | November 2016 - November 2017

- Analytical and oversight work on two representative national surveys with the first being covering of 3,000 households yearly the second 10,000.
- Main responsibilities included the preparation of questionnaires (methodology for PAPI and CAPI), testing the questionnaires and correcting mistakes, overlooking the data collection processes, analyzing the collected data, and presenting the findings to the public at press conferences and by publishing these findings in scholarly articles.

### External Data Analyst

PPM FACTUM | Prague, Czech Republic | September 2016 - November 2016

- Main responsibilities included analyzing the responses from online surveys, coding of open answers mainly using analytical tools and macros in Excel, and creating the first drafts of presentations for the customers.

## EDUCATION

### Ph.D. in Demography

Faculty of Science, Charles University | Prague, Czech Republic | September 2015 - Present

### M.A. in Sociology

Faculty of Arts, Charles University | Prague, Czech Republic | September 2013 - September 2017

### M.S. in Demography

Faculty of Science, Charles University | Prague, Czech Republic | September 2013 - September 2015

### An Exchange program during the M.S. in Demography

Faculty of Spatial Sciences, University of Groningen | Groningen, Netherlands | January 2015 - June 2016

### B.A. in Demography with Sociology

Faculty of Science, Charles University | Prague, Czech Republic | September 2010 - June 2013