Goksel Demir, M.Sc.

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Fully Work Authorized · No Visa Sponsorship Required

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PROFESSIONAL PROFILE

Data analyst with 7+ years of experience in data modeling, wrangling and mining, statistical prediction and research. Has practical and academic experience in both quantitative and qualitative research and writing to both technical and non-technical audiences. Worked on different parts of data project from collecting to coding, analysis to writing. Various regression modeling experiences (panel data, time series, multi-level, limited dependent variables, survival analysis, etc.)

SOFTWARE EXPERTISE

R (6+ years) with a focus on
- Regression modeling
- Spatial statistics

SPSS (10+ years) with a focus on
- Data management
- Data visualization
- Bivariate analysis
- Multivariate analysis

MS Excel (9+ years) with a focus on
- Data visualization
- Pivot tables
- Interactive Graphs

MS Access (9+ years) with a focus on
- SQL

GeoDa (6+ years) with a focus on
- Geographic data analysis
- Viz. techniques

NVivo (3+ years) with a focus on
- Creating theme nodes

Python
- Basic

CORE COMPETENCIES

Regression modelling

Geographic data analysis

Time series analysis

Qualitative research methods

Mixed method research

Data visualization

LATEST EDUCATION

Ph.D. in Criminology (2021 exp.)
Simon Fraser University

M.Sc. in Criminal Justice (2017)
University of Cincinnati

B.S. in Economics
Anadolu Uni. & METU (2015)

PROFESSIONAL EXPERIENCE

RESEARCH ASSISTANT   Sep 2017 – Sep 2019
Institute of Canadian Urban Research Studies at SFU
- Did cleaning, structuring and enriching raw and heterogeneous data coming from various parties along with its quantitative and qualitative analysis

RESEARCH ASSISTANT   Aug 2016 – Sep 2017
Institute of Crime Science at the University of Cincinnati
- Conducted research on issues related to crime, public safety, and management of criminal justice agencies
- Investigated emerging spatial and temporal trends for various crimes
- Identified hot spots and peak times of targeted events that were occurring

INSPECTOR   May 2014 – Oct 2015
Ankara Police Department (Turkey)
- Implemented data-oriented, offender focused and place-based methodology to enhance deployment of police patrol units practices
- Achieved a total of nearly 42% decrease in response time to call for services over three consecutive terms through exploration of clustering hotspots relying on ARIMA models and to predict city-wide point estimations

INSPECTOR   Jan 2011 – May 2014
Counter Terrorism Department Headquarters (Turkey)
- Transformed and transferred record management system using ODBC connector to collect, review, and management of political violence incidents
- Ensured quality, consistency and reliability of data received from provincial units
- Accomplished a roughly 300% increase in reported data by organizing officer training who produce data, and increased reported data 300%
- Investigated emerging spatial and temporal trends conducting quantitative analysis that involve OLS, logistic regression, fixed/random effects, spatial lag and spatial error models
- Visualized historical and spatial patterns of political violence incidents occurred country wide
- Writing trend and thematic reports of the department to present results

EXAMPLE CLASS TAUGHT

Instructor at Vancouver Island University   Fall 2019 – Spring 2020
Quantitative Research Methods in Criminology
- Methods to describe and compare data (variation and central tendency etc.)
- Basics of probability (normal curve, probability distribution, sampling etc.)
- Decision making and hypothesis testing
- Bivariate and multivariate analysis (Chi-Square, T-Test, ANOVA, Correlation, OLS)