

# NOAH DARWICH

Data Scientist

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[noah-darwich](#) 

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Passionate data scientist bridging technology and social impact through data-driven research. with a strong background in creating and curating event datasets related to protest movements.

I leverage Python and machine learning to uncover meaningful patterns that contribute to societal understanding. My work spans from protest event analysis to leveraging cutting-edge data science tools to digitize and streamline academic research in these fields.



## EMPLOYMENT HISTORY

### 04.2025 - PRESENT | RESEARCH DATA SCIENTIST

FREELANCE

- Collaborating with a research team at Yale University on a project focused on protest event data in Jordan. Designing and implementing a custom AI-powered tool to automate the collection of event data.
- Collaborating on a pilot conference at Oxford University aimed at examining the mechanisms of exploitation, coercion, and slavery within market systems while addressing critical data gaps in this field. Working to compile and analyze existing research findings to provide conference participants with a comprehensive assessment of the current state of data in this domain.

### 12.2024 - 09.2025 | RESEARCH DATA SCIENTIST

ROCKWOOL FOUNDATION, BERLIN (GERMANY)

- Conducting public policy research analyzing the impact of infrastructure changes (e.g., hospital closures) on German election outcomes
- Performing comprehensive data preprocessing and cleaning of public datasets
- Collaborating with interdisciplinary team to formulate research methodologies and approaches

## ● 04.2023 - 10.2024 | PROJECT MANAGER

GEORGETOWN UNIVERSITY, WASHINGTON, D.C. (USA)

Scholars: -Kilian Clarke, Assistant Professor at Georgetown University

- Chantal Berman, Assistant Professor at Georgetown University
- Rima Majed, Assistant Professor at AUB

- Developed and implemented a comprehensive data collection strategy to capture quantitative event datasets on the second Arab Spring wave (2019) in Sudan, Algeria, and Lebanon
- Oversee all aspects of the research projects, including planning, execution, and monitoring
- Designed and conducted training sessions for the Research Assistants
- Managed and provided guidance to three teams, each with 2-5 research assistants
- Implemented quality control measures, ensuring data accuracy and integrity by establishing rigorous quality control measures and performing regular data audits
- Developed automated research tools (i.e. Python Scripts, AI models) to streamline protest event data collection by identifying events, categorizing, and storing key variables from Arabic news articles for large-scale research

## ● 01.2021 - 07.2023 | SENIOR RESEARCH ASSISTANT

- Developed algorithmic data collection methods in Python, to automate key variables extraction and data entry
- Collected and analyzed protest event data from the Iraqi Arab Spring protest wave (2011) and the 2019 Tishreen uprising, drawing on local Iraqi news sources and social media sources
- Collected Arabic-language qualitative data on Egypt's football ultras; analyzed data on home districts of ultras killed during and after the 2011 revolution

## ● 04.2023 - 07.2024 | DATA SCIENCE LECTURER

LE WAGON , COLOGNE (GERMANY)

- As a data science lecturer, I lead students during the bootcamp through the intricacies of data analysis, machine learning, and data visualization, ensuring they are well-prepared to tackle real-world data science challenges upon completing their training

## ● 07.2022 - 04.2023 | SENIOR TEACHING ASSISTANT

- Helping students in the full-time Data Science bootcamp complete their daily coding challenges, from debugging their code to reinforcing fundamental concepts from their coursework
- Supporting the students' needs during their graduation projects
- Speaking at workshops organized by the company, which gives an introduction to Data Science topics (e.g. Advanced Python and SQL, Data Analysis & Visualization, Machine Learning, Deep Learning...)

## 04.2018 - 10.2021 | RESEARCH ASSISTANT

PRINCETON UNIVERSITY, NEW JERSEY (USA)

Scholar: -Kilian Clarke, Assistant Professor at Georgetown University

- Constructed a dataset of protest events in Egypt during the final eighteen months of the transition (2012-2013) using the Egyptian Arabic-language newspaper al-Masry al-Youm
- Analyzed data for descriptive trends and patterns and conducted diagnostic assessments for data accuracy and quality

## **11.2019 - 05.2020 | RESEARCH ASSISTANT**

PRINCETON UNIVERSITY, NEW JERSEY (USA)

Scholar: Gözde Güran, Assistant Professor at the London School of Economics

- Contributed to the construction of a dataset of quantitative data which was collected through ethnographic fieldwork for the project "How money moves in wartime Syria"

(Winner of the 2021 ASA Best Dissertation Award and the 2021 MESA Malcolm Kerr Best Dissertation Award)

## **01.2019 - 05.2021 | RESEARCH ASSISTANT**

AMERICAN UNIVERSITY OF BEIRUT (LEBANON)

Scholar: Rima Majed, Assistant Professor at AUB

- Collected and analyzed protest event data (1889-2019) for the project "Social movements in post-war Lebanon"

(Winner of the 2021 ASA Best Dissertation Award and the 2021 MESA Malcolm Kerr Best Dissertation Award)

# **EDUCATION**

## **04.2022 - 07.2022 | DATA SCIENCE BOOTCAMP**

LE WAGON - COLOGNE

- Advanced Python & SQL for Data Science
- Data Analysis & Visualization
- Un/supervised Machine Learning
- Deep Learning & Neural Networks

## **09.2015 - 06.2018 | BACHELOR OF BUSINESS ADMINISTRATION**

TISHREEN UNIVERSITY, LATAKIA (SYRIA)

- BACHELOR OF BUSINESS ADMINISTRATION

# **COURSES**

## **12.2021 - 02.2022 | DATA ANALYSIS WITH PYTHON**

FREECODECAMP.ORG

- Reading data from multiple sources
- Process and visualize data
- Using NumPy, Pandas, Matplotlib and Seaborn libraries

## **02.2021 - 04.2021 | ONLINE COURSE PYTHON**

MICHIGAN UNIVERSITY, COURSERA

- Reading data from multiple sources
- Python Data Structures
- Using Python to access web data

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## PROJECTS

### AUTOMATING DATA COLLECTION

FUNDED BY GEORGETOWN UNIVERSITY

A tool which streamline protest event data collection and builds protest datasets automatically

- Using Large Language model, OpenAI API, and Python scripts
- The tool extracts protest events from Arabic news sources, and categorizes key variables such as location, date, type of protest, demands, and participants, and stores them in a structured format

### LANGUAGES

- Arabic 
- English 
- German 
- Turkish 

### PRO-TEST

GRADUATION PROJECT AT LE WAGON

A machine learning webapp that predicts violence at demonstrations

- Applied Data cleaning and feature engineering on >13k event datasets, with >100 categorical columns
- Data analysing and correlation testing between features and targets
- Built and finetuned a RandomForest model, achieving 80% accuracy
- Deployed the model on streamlit, after developing basic back- and frontend

### SKILLS

- Python
- Matplotlib - NumPy - Pandas
- Scikit learn - TensorFlow
- Data visualisation
- Machine Learning
- Deep Learning

### INTERESTS

- Politics
- Human rights
- Making music
- Chess
- Painting and drawing

## VOLUNTEERING

### 06.2018 - 08.2019 | VOLUNTEER INTERPRETER

SAFE PLACE ISTANBUL NGO, ISTANBUL (TURKEY)

- An NGO that provides services for LGBTQ refugees