



# Lucas Fagliano

DATA OFFICER · DATA ENGINEERING AND DATA SOLUTIONS

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## Skills

### DevOps

DigitalOceans (managed and self-managed deployments), Docker, Kubernetes, Git, Github Actions, Package Design & Management, unit testing

### Data Science

Supervised and Unsupervised Text Classification models, Regression Models, Clustering Classification Models, Network Analysis, Applied statistics, Jupyter Notebooks, Quarto, RMarkdown, Tableau, Shiny Applications.

### Data Engineering

ETL/ELT Pipeline Design and Optimization (R, Python & Bash), Airflow Orchestration, Cron Orchestration, Polars, Pandas, Spark, RDBMS Maintenance and Design, API Testing, Script Optimization

### Project Management

Asana (API), Notion, Github Projects, Slack (API)

### Programming

Python, R, Bash, SQL, Markdown

### Languages

English (Native-like fluency), Spanish (Native), German (intermediate)

## Work Experience

### Armed Conflict Location and Events Data Project (ACLED)

*Remote*

DATA OFFICER

*April 2022 - Present*

- Developed the external R and Python packages for the organization, aimed at data gathering, data cleaning, and data analysis.
- Developed the internal R packages of the organization.
- Deployed the organization's Apache Airflow server, github infrastructure structure, centralizing our team's repositories and optimize existing workflows through CI/CD pipelines.
- Implemented multiple Data Engineering, Excel, R, Tableau and data management trainings for a wide range of staff across the organization.
- Developed dashboards and ETL pipelines to support other teams in the organization, such as Business Intelligence and Communications.
- Created multiple web applications to deploy our data and analysis, including the use of Shiny, Quarto and Jupyter notebooks.
- Created documentation for a variety of projects and external-facing applications.
- Optimized multiple data management scripts, including the usage of Bash, SQL, R and Python, transforming them into automatized ETL pipelines.
- Managed different aspects of the data team's cloud infrastructure, primarily in DigitalOceans, including setting up new servers, managing networking, and troubleshooting problems across droplets.

### Caucasus Research Resource Center (CRRC)

*Tbilisi, Georgia*

INTERNATIONAL RESEARCH FELLOW

*August 2021 - May 2022*

- Developed large datasets on official diplomatic communications and social media data, including the use of quantitative text models (supervised and unsupervised classification models).
- Assisted in the analysis and development of quantitative research projects in digital disinformation, and strategic developments in Georgia, including the use of regression and clustering models.
- Assisted in the implementation and design of multiple nation-wide surveys for international organizations.

### The Hague Centre for Strategic Studies (HCSS)

*The Hague, Netherlands*

ASSISTANT ANALYST

*August 2019 - February 2020*

- Co-authored and contributed to numerous reports in national security planning, hybrid threats and strategic foresight. While also providing assistance in projects regarding multi-domain operations, interstate military conflict and security sector reform.
- Strengthened and drafted the research design of several projects along the lines of security sector reform, hybrid threats, national security planning and strategic foresight.
- Prepared ETL pipelines and visualizations through Tableau, Tableau Prep and SQL, combining datasets from different sources and utilizing them to support research projects at the think tank.

## Education

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### Leiden University, Jagiellonian University, Charles University

*Netherlands, Poland, Czechia*

HONORS, JOINT MA IN INTERNATIONAL AREA STUDIES - EUROPEAN POLITICS AND SOCIETY

*September 2018 - August 2020*

- Extensive training in qualitative and quantitative methods. Courses in research methodologies and intensive research training at the Pompeu Fabra University in Spain.
- Relevant coursework such as: Comparative politics, Quantitative methods for social science, International security, and EU affairs.
- Thesis: "Finding the European Union's grand strategy: Understanding the role of the Commission in formulating grand strategy." - Grade: 8.1 at Leiden University.

### Instituto Tecnológico y de Estudios Superiores de Monterrey

*Puebla, Mexico*

BA IN INTERNATIONAL RELATIONS

*January 2012 - December 2016*

## Certificates

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2022 **Hertie School Data Science Summer School (07/2021 & 08/2022)**, Hertie School Data Science Lab

2023 **ETL and Data Pipelines with Shell, Airflow and Kafka**, IBM

Expected  
02/2024 **Certified Kubernetes Administrator (CKA)**, Linux Foundation

Expected  
01/2024 **Kubernetes and Cloud Native Associate (KCNA)**, Linux Foundation

Expected  
03/2024 **IBM Data Engineering Professional Certificate**, Coursera

## Writing

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### Hybrid Conflict: Neither war, nor peace

*Strategic Monitor 2019-2020 - The  
Hague Center for Strategic Studies*

CO-AUTHOR

*January 2020*

- Mixed methods study on the rise of hybrid conflict in 2019. My contributions focused on data collection and analysis, as well as the Economic and informational domains.

### In the Eye of the Beholder? An Assessment of Global Security

*Strategic Monitor 2019-2020 - The  
Hague Center for Strategic Studies*

CO-AUTHOR

*January 2020*

- Mixed-methods study on the state of strategic foresight, and the role of the Netherlands in the world. My contributions focused on research design, data collection and analysis.