Lucas **Fagliano**

DATA LITERACY OFFICER · DATA ENGINEERING AND ARCHITECTURE

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Skills

DevOps	DigitalOceans (managed and self-managed deployments), Docker, Kubernetes, Git, Github Actions, Package Design & Management, testthat, Pytest
Data Science	Supervised and Unsupervised Text Classification models, Regression models, Clustering 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, RDBMS Mantinance and Design, API Testing, Script Optimization
Project Management	Asana, Github projects
Programming	Python, R, 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

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 Tecnologico y de Estudios Superiores de Monterrey   *Puebla, Mexico*

BA IN INTERNATIONAL RELATIONS   *January 2012 - December 2016*

Certificates

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

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 raise 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.