Jan Elfes

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GitHub: github.com/jelfes

EDUCATION

University College Dublin

Dublin, Ireland

Ph.D. Quantitative & Computational Social Sciences

2023-Current

- Computational narrative analysis in online media;

University of Padova

Padova, Italy

M.Sc. Data Science, GPA: 4.0/4.0

2021 - 2023

- Thesis: Machine learning-based image forgery detection;

Heidelberg University

Heidelberg, Germany

B.Sc. Physics, GPA: 3.3/4.0

2016-2021

- Thesis: Hydrospheric tracers in environmental physics;

EXPERIENCE

Wayfair Berlin, Germany

InternMar 23-Sep 23

Worked as a Machine Learning Scientist in the Scam and Fraud Detection Team on Image Recognition Software.

- Designed and tested image-based features for scam detection.
- Maintained model infrastructure and deployed new features to production.
- Build pipelines for model training.
- Experimented with different models.

UN Office for the Coordination of Humanitarian Affairs

South Sudan

Research Project Manager

Aug 22-Sep 22

Led data collection for the evaluation of the impact of UN support on health and food security in displacement camps.

- Led my team in conducting 4000 interviews over 9 weeks.
- Trained and supervised 15 staff and managed communication with the displaced communities.
- Ensured data quality by conducting regular quality checks and giving feedback to the enumerators.

International Security and Development Center (ISDC)

Berlin, Germany

Junior Researcher

Mar 22-Jun 22

Contributed to an impact evaluation for the FAO.

- Aggregated external data sources and matching them to a survey.
- Analysed conflict event data as well as satellite data on weather and land conditions.
- Produced graphs, maps, and tables used in the final paper.

International Security and Development Center (ISDC)

Berlin, Germany Mar 21-Jul 21

Research Assistant

Provided statistical analysis for several projects.

- Cleaned and analysed survey data on gendered dimensions of displacement and the impact of COVID-19 around the world.
- Produced graphs and tables for the final scientific papers [2].

Institute for Peace Research and Security Policy (IFSH)

Hamburg, Germany Jan 21–Feb 21

Simulated the emission spectrum of nuclear weapons to improve detection systems [3].

International Security and Development Center (ISDC)

Berlin, Germany Sep 20–Dec 20

Contributed statistical analysis to different projects.

PUBLICATIONS

Intern

- [1] J. Elfes, "Mapping News Narratives Using LLMs and Narrative-Structured Text Embeddings", en, in *Proceedings of the 17th ACM Web Science Conference 2025*, New Brunswick, NJ, USA: ACM, 2025.
- [2] W. Stojetz, N. T. N. Ferguson, G. Baliki, O. Díaz, J. Elfes, D. Esenaliev, H. Freudenreich, A. Koebach, L. Abreu, L. Peitz, A. Todua, M. Schreiner, A. Hoeffler, P. Justino, and T. Brück, "The Life with Corona survey", *Social Science & Medicine*, vol. 306, Aug. 2022.
- [3] M. Kütt, J. Elfes, and C. Fichtlscherer, "Fetter Model Revisited: Detecting Nuclear Weapons 30 Years Later", in *Proceedings of the INMM ESARDA Joint Virtual Annual Meeting*, Aug. 2021.

TEACHING

• Co-Instructor at University College Dublin

Theories of Media and Communication (IS20160)

Autumn 2025

• Co-Instructor at University College Dublin Communication Theory (IS40880) Autumn 2025

• **Teaching Assistant** at University College Dublin Machine Learning Foundations (IS41070) Summer 2024

• **Tutor** at University College Dublin

Data Science in Practice (COMP30780)

Spring 2024

SKILLS

• **Programming:** Python (PyTorch, TensorFlow, Scikit-learn, transformers), R, SQL, Jinja

• German: Native

• English: C2

LANGUAGES

• Italian: C1

• Frameworks: Linux, Git, GCP, Kubeflow

• French: A1

SCHOLARSHIPS

• Government of Ireland Postgraduate Scholarship, Irish Research Council Highly competitive, individual, and prestigious awards for excellent research.	Nov 23–Okt 27
• DDSA Visit Grant, Danish Data Science Academy	Mar~25May~24
• DDSA Visit Grant, Danish Data Science Academy	Aug 24–Nov 24
• MAECI Scholarship, Italian Ministry of Foreign Affairs and International Cooperation	Jan 23–Sep 23
• MAECI Scholarship, Italian Ministry of Foreign Affairs and International Cooperation	Jan 22–Sep 22

INTERESTS

Theatre & Sport

 $\it I\ am\ acting\ and\ directing\ in\ theatre\ projects\ and\ \it I\ am\ a\ passionate\ climber\ and\ aerial\ silk\ acrobat.$