

CONTACT ME

-  [v.smith.20@ucl.ac.uk](mailto:v.smith.20@ucl.ac.uk)
-  <https://www.linkedin.com/in/victoria-smith-754602104>
-  <https://v-smith.github.io>

SKILLS

- Machine Learning & NLP:** Hugging Face, LangChain, PyTorch, scispacy, scikit-learn.
- Programming:** Python, R, HTML.
- Software Engineering Practises:** GitHub version control, cloud computing, modular code, unit testing.
- Pharmacometrics:** R, nlmixr.

PUBLICATIONS / POSTERS

- End-to-End Relation Extraction of Pharmacokinetic Estimates from the Scientific Literature.**  
2024, **BioNLP @ ACL**
- Blog post on privacy in Language Models:**  
<https://nhsengland.github.io/datascience/articles/2024/04/11/privLM/>  
2024, **NHS England Data Science**
- Named Entity Recognition of Pharmacokinetic parameters in the scientific literature.**  
<https://doi.org/10.1101/2024.02.12.580001>  
2024, **Bioarxiv Preprint**
- Artificial Intelligence applied to drug design and development.**  
[www.pharmatech.es/articulos/20240105/inteligencia-artificial-aplicada-al-diseno-y-desarrollo-de-farmacos](http://www.pharmatech.es/articulos/20240105/inteligencia-artificial-aplicada-al-diseno-y-desarrollo-de-farmacos)  
2024, **Pharmatech Magazine**
- Identifying and Mitigating Privacy Risks Stemming from Language Models: A Survey.**  
<https://doi.org/10.48550/arXiv.2310.01424>  
2023, **Arxiv Preprint**
- World Conference in Pharmacometrics**  
2022, **Poster Winner**

REFERENCES

- Prof. Joseph Standing**  
**Primary Supervisor**  
Email: [j.standing@ucl.ac.uk](mailto:j.standing@ucl.ac.uk)
- Dr. Frank Klopprogge**  
**Secondary Supervisor**  
Email: [f.klopprogge@ucl.ac.uk](mailto:f.klopprogge@ucl.ac.uk)
- Dr. Watjana Lilaonitkul**  
**Secondary Supervisor**  
Email: [watjana.lilaonitkul.16@ucl.ac.uk](mailto:watjana.lilaonitkul.16@ucl.ac.uk)

VICKY SMITH

PhD student specializing in AI-enabled healthcare with extensive experience in machine learning, natural language processing, and privacy-preserving techniques. Proven track record of leveraging computational techniques to address complex healthcare challenges.

EDUCATION

**PhD Student on the UKRI CDT in AI-Enabled Healthcare Systems**  
University College London | 2021-Current

- Research focused on information extraction from pharmacokinetic literature.
- Proven track record in developing high-quality annotated datasets and managing annotation teams.
- Expertise in training models for text classification, named entity recognition, relation extraction and entity linking.

**MRes AI-Enabled Healthcare Systems**  
University College London | 2020-2021 | Distinction

- Developed a dataset and pipeline for text classification in pharmacokinetics.
- Studied machine learning, software development and pharmacometrics.

**MSci Neuroscience**  
University College London | 2014-2018 | Distinction

- Researched inflammatory gene expression in Alzheimer's disease.

**PGCert in Statistical Data Science**  
Birkbeck University | 2021-2022 | Merit

- Studied calculus, algebra, and statistics for data science.

RESEARCH & WORK EXPERIENCE

**Machine Learning Research Internship**  
NHS England | Jun 2023–Nov 2023

- Pretrained RoBERTa and gpt-2 on MIMIC-III.
- Conducted privacy attacks against LLMs.
- Investigated different mitigation techniques to protect LLM training data.

**AI Research Studentship**  
The Alan Turing Institute | Oct 2022-Oct 2023

- Wrote a survey paper on data privacy in LLMs with the Safe and Ethical AI Team.
- Received specialised training in AI ethics.

**Technology Graduate Scheme**  
Vodafone Group | Sept 2018–Sept 2020

- Managed supplier cybersecurity for the company.
- Certified Scrum Master and effectively led an Agile software development team.
- Developed an innovative IoT solution for event capacity management.

TEACHING & MENTORSHIP

**Lead PGTA on MSc Digital Health Technologies**  
UCL Global Business School for Health | Sept 2023-Feb 2024

- Designed module content, developed marking keys and coordinated marking.
- Lectured, led practicals, and supervised students in developing healthcare chatbots and business cases.