

CAITLIN LOFTUS

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EDUCATION

- Candidate for Master of Science in Computational Analysis and Public Policy**
The University of Chicago, Harris School of Public Policy & Department of Computer Science
Coursework and projects in: Python programming; database modelling and design (PostgreSQL, POST/GET requests, JSON); big data application architecture (Hive, Hbase, Spark, AWS S3 & deployment); machine learning (scikit-learn); regression modeling (R).
Chicago, IL
Sep 2019 - Current
- Master of Science (with Distinction) in Genes, Environment & Development**
King's College London, Social, Genetic & Developmental Psychiatry Centre
An interdisciplinary programme in behavioural genetics, focusing on how genes and environment shape the development of human behaviour and psychiatric disorders.
Research project: project used structural equation modelling in R and OpenMx to explore potential interactions between genotype and family environment in increasing risk to adolescent antisocial behaviour (supervisor: Dr Tom McAdams).
London, UK
Sep 2015 - Sep 2016
- Bachelor of Science in Psychology**
University College London, Department of Psychology
Research project: impact of the use of Compassionate Imagery Training as an intervention for highly self-critical individuals (supervisor: Dr Caroline Falconer).
London, UK
Sep 2019 - Jun 2021

EXPERIENCE

- Graduate Research Assistant, Mansueto Institute for Urban Innovation**
Worked for Luis Bettencourt and Nico Marchio on their Adaptive Control for COVID-19 project. Built robust ETL processes to clean and standardise the messy, crowdsourced data, and made improvements to the codebase that increased its efficiency. Researched and implemented econometrics model to explore impact of lockdown policies on COVID-19 Rt values in the US.
Chicago, IL
May 2020 - Sep 2020
- Lead Data Scientist for SN Digital, Springer Nature**
- Instrumental in creating a new event-based data pipeline to record user events across Springer Nature's sites, using Google Cloud Platform (BigQuery, DataFlow, DataStudio).
- Ran analyses of user interaction data (using Python and BigQuery SQL) learn about Springer Nature's user base and help the department make informed decisions about which improvements to the Springer Nature websites would best benefit users.
- Transformed department's A/B product development testing & data analysis practices, which increased end-user engagement and improved statistics and data literacy across the department.
London, UK
Apr 2017 - Aug 2019
- Product Analyst, The Thinking Partnership**
Worked extensively on the development and implementation of CharacterScope—a leadership development software package—helping it move from initial design concept to a fully launched product. Ran statistical modeling analyses to underpin the development of CharacterScope and improve the user experience, which increased user engagement.
Oxford, UK
Feb 2015 - Mar 2017

TECHNICAL SKILLS

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| Programming languages: | Python; SQL; R; some experience with Stata, Scala & Java |
| Databases and systems: | PostgreSQL; Apache Big Data software (Hive, Hbase, Spark);
Google Cloud Platform (including BigQuery, DataFlow, Pub/Sub) |