Angus Chan
PhD Candidate with passion in data science

Diligent PhD Candidate with five years of academic research experience in social sciences, proficient in utilising statistical analysis tools and programming languages, including R and Python, for deriving data insights. Eager to seek data-driven solutions to address real-world challenges.

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📍 London, UK

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SKILLS

R   Python   SQL

Statistical Analysis

A/B tests   Scikit-Learn

Matplotlib

Machine Learning   NLP

Web scraping

Microsoft Office

LANGUAGES

English
Full Professional Proficiency

Cantonese
Native or Bilingual Proficiency

Mandarin
Native or Bilingual Proficiency

German
Elementary Proficiency

CERTIFICATES

AWS Educate Introduction to Cloud 101

Data Visualisation With Power BI

EDUCATION

Ph.D. Security and Crime Science
University College London

09/2021 - Present   *London, UK*

- Employed diverse research methods, including meta-analysis, qualitative interviews, and randomised experiments (A/B tests), and conducted data analysis in R to explore theoretical gaps in public perceptions of policing fairness and legitimacy from a social psychological perspective.
- Audited the Applied Data Science module, gaining proficiency in machine learning concepts and skills using R and Python. Covered topics encompass Naive Bayes, SVM, K-means clustering, neural networks, as well as web scraping and text mining. Completed coursework involved training a review sentiment classifier with SVM using 25,000 IMDB reviews, achieving an F1 score of 0.88.

Master of Social Sciences (Criminology)
University of Hong Kong

09/2018 - 08/2019   *Hong Kong SAR*

Bachelor of Social Sciences (Psychology)
University of Hong Kong

09/2014 - 08/2018   *Hong Kong SAR*

WORK EXPERIENCE

Teaching Assistant
University College London

09/2022 - Present   *London, UK*

- Assisted in the Crime Mapping module for 100 undergraduates, guiding them in utilizing R for spatial analysis of crime. Provided in-class assistance and organised troubleshooting sessions using R tutorials created by the lecturer.
- Conducted workshops in the Quantitative Methods module for 50 undergraduates, assisting in mastering diverse statistical analyses using STATA and understanding foundational concepts like confidence intervals, hypothesis testing, and both linear and logistic regression. Provided in-class assistance to the lecturer.
- Led seminars for 40 undergraduates in the Foundations of Security and Crime Science module, introducing core concepts like problem-oriented policing and crowd policing through PowerPoints and discussions.

Research Consultant
University College London

01/2023 - 12/2023   *London, UK*

- Collaborated with Salesforce and Merseyside Police in a research team, conducting an A/B test for an online crime reporting portal. Explored the impact of its design on participant satisfaction and concluded that user experience and trust in police predict satisfaction.
- Produced a comprehensive 53-page report, incorporating findings from statistical tests (t-test, ANOVA, linear regression) and Natural Language Processing on participants' qualitative feedback to produce wordclouds by using R and Python.

HIGHLIGHTED PUBLICATION

Chan, A., Bradford, B. & Stott, C. A systematic review and meta-analysis of procedural justice and legitimacy in policing: the effect of social identity and social contexts. J Exp Criminol (2023). https://doi.org/10.1007/s11292-023-09595-5

Extracted effect sizes from 123 existing studies. Utilised R to conduct data cleaning, analysis, and visualisation.