

Curriculum Vitae

Kuan Liao

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Educational Background

PhD in <i>Health Informatics</i> , University of Manchester	01/2021 – 03/2024
MSc in <i>Health Data Science (with distinction)</i> , University of Manchester	09/2019 – 12/2020
Bachelor in <i>Preventive Medicine and Public Health</i> , Tianjin Medical University	09/2014 – 07/2019

Research Experience

Corresponding or first author

- Prognostic value of patient-reported outcome measures (PROMs) in adults with non-small cell Lung Cancer: a scoping review. **BMC Cancer** 22, 1076 (2022).
- Exploring the value of routinely collected data on EQ-5D-5L and other electronic patient-reported outcome measures as prognostic factors in adults with advanced non-small cell lung cancer receiving immunotherapy. **BMJ Oncology** (in press)
- Development and internal validation of electronic patient-reported outcome measures-based prediction models for overall survival in people with advanced non-small cell lung cancer receiving immunotherapy. **JCO Clinical Cancer Informatics** (under review)
- Association of dietary pattern with depressive symptoms in Chinese postmenopausal women. **British Journal of Nutrition**, 122 (10), 1168-1174.

Co-author

- Fixing the leaky pipe: how to improve the uptake of patient reported outcomes-based prognostic and predictive models in cancer clinical practice. **JCO Clinical Cancer Informatics** 2023 :7.

ISOQOL student poster presentation award finalist

- To what extent, how and how robustly have PROMs been investigated as prognostic factors in non-small cell lung cancer: a scoping review. 29th Annual Conference

Work Experience

Academic journal reviewer 06/2023 – Now

- Provided constructive feedback on articles relating to clinical prediction models in BMC Medical Informatics and Decision Making and Journal of Clinical Epidemiology.

Teaching assistant of over 10 modules – University of Manchester 09/2021 – Now

- Proposed two MSc dissertation projects and co-supervised one project on systematic review of prognostic models using PROMs as predictors for overall survival in people with cancer.
- Led and chaired training sessions for conducting systematic reviews and over 5 practical sessions for fundamentals of statistics, clinical prediction modelling, and causal inference.
- Collaborated with senior academics to develop a marking scheme for essay-based assignments.
- Monitored online questions and provided support during weekly office hours.

Languages & Skills

Technical skills: R; SPSS Statistics; Tableau; Python; SQL.

Data science and analytics: Proven ability of applying statistical and machine learning techniques, prediction modelling, missing data handling, data wrangling with large datasets to conduct high impact research.

Languages: English (Work fluent), Mandarin (Native)