

Post-doctoral Fellow (Ref: 2600903)
Department of English Language Education

Project Title: Computational Multimodal Platformed Analysis of Social Semiotics (COMPASS) Adaptive AI and Computational Linguistics for Multilingual Digital Discourse

[Appointment Period: 24 months]

We invite applications for a Postdoctoral Fellow (Quantitative Focus) to join a three-year interdisciplinary research cluster investigating multilingual and multimodal communication on digital platforms. Working closely with the cluster investigators, the appointee will lead the computational and data infrastructure strand of the programme. The role combines rigorous engineering with theory-informed modelling and requires a commitment to interpretable, auditable measures that are validated against human judgements.

Key Responsibilities

- Design and maintain shared infrastructure for the ethical collection, storage, processing, documentation, annotation and analysis of large scale platform data
- Develop reproducible pipelines for multilingual text, image, audio, video, metadata and interaction networks, with appropriate quality control, privacy protection and versioning
- Develop multimodal machine learning and natural language processing methods that integrate theory-guided features with learned representations and preserve traceability from input cues to model outputs
- Apply network analysis and computational social science methods
- Collaborate on annotation design, error analysis, fairness and validity audits, open and reproducible research outputs, high-quality publications, grant development and supervision of research assistants or students as required

Requirements

- A doctorate in computer science, data science, computational social science, information science, computational communication or a closely related field
- Strong programming and data engineering skills, preferably in Python, with experience in machine learning workflows, reproducible research and collaborative software development
- Demonstrated expertise in at least two of the following areas: natural language processing, multimodal machine learning, computational social science, social network analysis, graph learning, speech or computer vision
- Evidence of independence, careful data stewardship, collaborative working and the ability to deliver reliable research infrastructure and analyses to agreed timelines

For enquiries about the post, please contact Prof. Gu Mingyue Michelle at mygu@eduhk.hk.

Salary will be commensurate with qualifications and experience.

Initial appointment will be made on a fixed-term contract. Fringe benefits include contract-end gratuity, leave, medical and dental benefits.

The University only accepts and considers applications submitted online for this post. Applicants should complete the [online application form](#) and upload a full CV on or before **19 October 2026**. Applications which are incomplete or without the required documents may not be considered. Personal data provided by applicants will be used for recruitment and other employment-related purposes. For details of the Personal Information Collection Statement, please refer to <http://www.eduhk.hk/jobsopp/index.php?glang=en>.

All applications will be treated in strict confidence. Only those who are shortlisted will be contacted. The University reserves the right not to fill the position(s) advertised. Since the incumbent's work would involve contacts with persons aged under 18 and/or mentally incapacitated persons, prospective employee(s) will be required to undergo Sexual Conviction Record Check operated by the Hong Kong Police Force.

Further information about the University is available at <http://www.eduhk.hk>.

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