Zhouyi Xiaoxiao 周易潇潇

PhD, Bristol · AI R&D, Yuexin

PhD researcher, University of Bristol — first-passage times of random walks and the evaluation of AI agents · R&D Scientist (AI) at Yuexin International, a cloud-communications company

- First-author paper accepted at the UK AI Research Symposium (UKAIRS 2026): prompting AI agents in romanised Chinese (pinyin) — poster, Edinburgh, 25 Nov
- Single-author paper submitted to the physics journal *Physical Review E*, Jul 2026; its exact algebra machine-checked in the Lean proof assistant: 46 theorems
- Public reproduction archive v1.3.0 for a second paper, in preparation: code, proofs and records
- Five AI systems live at Yuexin International since June 2026 — an AI gateway, a governed AI platform, a staff assistant
- Early Career Enterprise Fellow 2026 (one of twelve) · 13 teaching roles · PhD student rep

Contact

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Instagram	instagram.com/zhouyixiaoxiao ↗

Education

PhD in Engineering Mathematics, University of Bristol	Nov 2025 – now
MSc Engineering Mathematics, University of Bristol, with Distinction (the top UK grade)	Sep 2024 – Sep 2025
An exchange year at the Hong Kong University of Science and Technology (HKUST)	Sep 2023 – Jun 2024
BSc Mathematics & Applied Mathematics, Tianjin University	Aug 2021 – Jun 2025

Languages

Mandarin (native) · English (IELTS 7.0) · French (A1)

Roles

R&D Scientist (AI) · Yuexin International	Jun 2026 – now
Student Ambassador · University of Bristol	Apr 2026 – now
Early Career Enterprise Fellow (2026 cohort, one of twelve) · University of Bristol	Dec 2025 – now
PGR (postgraduate research) representative, re-elected for 2026–27 · Engineering Mathematics, University of Bristol	Dec 2025 – now
PhD researcher · University of Bristol, School of Engineering Mathematics and Technology (SEMT)	Nov 2025 – now
Graduate Teacher & Demonstrator · University of Bristol	Nov 2025 – now
Researcher (Internship) · LiveX AI, a Bay Area AI start-up	4–16 Aug 2025
Research intern · JLL Chengdu, a real-estate consultancy	Jul–Sep 2024
Student Warden · University of Bristol accommodation	2024–25

Research outputs

● Skipping the IME? Keyboard-Friendly Multilingual Prompting for LLM Agents
Xiaoxiao Zhouyi (byline form of Zhouyi Xiaoxiao), Yanzhen Li

● UKAIRS 2026 (UK AI Research Symposium) · Emerging Research track · poster · Edinburgh · Accepted 11 Aug 2026 · poster #181, 25 Nov 2026

`Poster list` —https://ukairs2026.eventsadmin.com/i/PosterSessions

Geometry-controlled folds of first-passage-time bimodality under localized absorption
Xiaoxiao Zhouyi (byline form of Zhouyi Xiaoxiao)

○ Submitted to *Physical Review E* · Jul 2026

`Research atlas` —https://zhouyi-xiaoxiao.github.io/valley-k-small/

Programmable multimodality and saddle-node loss of reaction-time peaks under a fixed catalyst budget
Xiaoxiao Zhouyi (byline form of Zhouyi Xiaoxiao)

○ Manuscript in preparation

`Reproduction archive` —https://github.com/zhouyi-xiaoxiao/prescribed-reaction-time-modes

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Spectral diagnostics and local fixed-budget sensitivity of critical points in finite encounter-reaction models
Xiaoxiao Zhouyi (byline form of Zhouyi Xiaoxiao)

○ Working paper

Articles (2026)

Mean and most probable first-passage times of lazy random walks in reflecting hypercubic lattices: exact results, modal scaling and inert defects · `Paper, proofs, code` —https://github.com/zhouyi-xiaoxiao/master-dissertation

Random-walk SIR models of indoor epidemics: reproduction numbers, discrete individuals and pre-specified tests against outbreaks, contact records and tracer measurements · `Paper, code, data` —https://github.com/zhouyi-xiaoxiao/indoor-epidemic-random-walk

Physics-informed neural networks and the Deep Ritz method for diffusion, wave and Laplace problems: a reproducible benchmark and its failure modes · `Paper, code, data` —https://github.com/zhouyi-xiaoxiao/pinn-diffusion-wave-laplace

Honours

Accepted at UKAIRS 2026: the first AI paper	11 Aug 2026
Early Career Enterprise Fellow, 2026	23 Dec 2025
New Enterprise, the start-up programme: a first pitch award	6 Jan – 2 Mar 2026
MSc awarded with Distinction	Sep 2025
Outstanding Student Leader Award, Tianjin University	2022
Self-Improvement Award, Tianjin University	2021

Talks & stages

UK AI Research Symposium (UKAIRS 2026), Edinburgh	24–25 Nov 2026
‘From SMS to Intelligent Channels’: a 93-minute primer on AI models	5 Aug 2026
A PechaKucha (20 slides, 20 seconds each) at the Festival of Enterprise	10 Jun 2026
Seven minutes of stand-up about a maths PhD	12 Feb – 3 Jun 2026
‘Hidden Routes in First-Passage Time’	14–15 Apr 2026

Tools

Python · PyTorch · Lean proof assistant · LaTeX · Swift · AI-tool connectors (MCP, an open protocol) · Isambard supercomputer · AI coding agents (Codex, Claude Code)