

QIZHEN YING

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RESEARCH INTERESTS

Physically plausible generative models and world models. I work on world models that integrate deterministic (physics-based) and generative perspectives to bridge simulation and real-world scenarios.

EDUCATION

University of Oxford <i>DPhil in Engineering Science, Active Vision Lab</i> • Supervisors: Prof. Victor Adrian Prisacariu and Dr. Yangchen Pan	Oct 2025 – Present <i>Oxford, UK</i>
University of Cambridge <i>Visiting PhD Student, CV4DT Group</i>	Oct 2025 – Present <i>Cambridge, UK</i>
University of Oxford <i>MSc in Advanced Computer Science</i>	Sep 2024 – Sep 2025 <i>Oxford, UK</i>
University of Bristol <i>BSc in Mathematics, First Class Honours, Ranked 1st in cohort</i>	Sep 2021 – Jun 2024 <i>Bristol, UK</i>

PUBLICATIONS

Peer-reviewed conference proceedings, reverse chronological order. *Equal contribution.

- [1] **Q. Ying**, G. Wang, Y. Pan, V. A. Prisacariu, and Y. Jing. NEXUS: Neural Energy Fields for Physically Consistent Contact-Rich 3D Object Dynamics. In *Advances in Neural Information Processing Systems (NeurIPS)*, 2026.
- [2] **Q. Ying**, Y. Pan, V. A. Prisacariu, and J. Wen. Temporal Difference Learning for Diffusion Models. In *Proceedings of the International Conference on Machine Learning (ICML)*, 2026.
- [3] G. Wang*, **Q. Ying***, Y. Jing, O. Wysocki, and B. Sheil. ActionReasoning: Robot Action Reasoning in 3D Space with LLM for Robotic Brick Stacking. In *IEEE International Conference on Robotics and Automation (ICRA)*, 2026.
- [4] J. Yu, **Q. Ying**, L. Wang, Z. Jiang, and S. Liu. Missing Data Imputation by Reducing Mutual Information with Rectified Flows. In *Advances in Neural Information Processing Systems (NeurIPS)*, 2025.
- [5] D. J. Williams, L. Wang, **Q. Ying**, S. Liu, and M. Kolar. High-Dimensional Differential Parameter Inference in Exponential Family using Time Score Matching. In *International Conference on Artificial Intelligence and Statistics (AISTATS)*, PMLR, 2025.

HONOURS & AWARDS

Henry Ronald Hassé Finalist Prize , University of Bristol — top final-year mathematics student	2024
Lynne Walling Memorial Prize , University of Bristol — studies and university contribution	2024

ACADEMIC SERVICE

Reviewer: ICLR 2025, ICML 2026, NeurIPS 2026

INDUSTRY EXPERIENCE

Agora — Research Intern, Video Algorithm Group	Aug 2023 – Nov 2023
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SKILLS

Programming: Python (PyTorch)
Languages: Mandarin (native), English (professional working proficiency)

LEADERSHIP

President, Chinese Society, University of Bristol	Sep 2022 – Aug 2023
Committee Member (Academic & Enterprise), Oxford CSSA	Oct 2024 – Jun 2026