

Yan Ma

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EDUCATION

- **Ph.D. Student in Computer Science** **Fudan University**
Advisor: Prof. Pengfei Liu and Prof. Yu Qiao *2023.09 – 2027.06 (expected)*
- **Master in Computer Application Technology** **Fudan University**
Advisor: Prof. Wei Li *2020.09 – 2023.06*
- **Bachelor in Computer Science and Technology** **Dalian University of Technology**
GPA: 4.076/5, Rank: 12/123 *2016.09 – 2020.06*

RESEARCH INTERESTS

I have a broad interest in creating and generating virtual content. Currently, my primary research interests lie in **language model-driven storytelling**, including: 1) High-quality and diverse long text-based narratives, 2) Vision-text consistent multi-modal storytelling, 3) Video storytelling / Physically-aware world model.

PROJECTS

- **RL Plot: Reinforcement Learning Plot Library** [[🔗 link](#)] (☆ 20+)
 - An highly encapsulated RL plot library, including basic error bar lineplot and a wrapper to *riable*.
- **Awesome-Story-Generation** [[🔗 link](#)] (☆ 180+)
 - An extensive list of awesome papers about Story Generation / Storytelling, primarily focusing on the era of Large Language Models (LLMs).

EXPERIENCE

- Shanghai AI Laboratory - Research Intern, Advisor: Pengfei Liu and Yu Qiao *2023.07 - Now*
- Netease Games AI Laboratory - Research Intern, Advisor: Siji Xu *2022.07 - 2022.09*

PUBLICATIONS

- **MoPS: Modular Story Premise Synthesis for Open-Ended Automatic Story Generation**
Annual Meeting of the Association for Computational Linguistics (ACL), 2024
Yan Ma, Yu Qiao, Pengfei Liu
 - We introduce Modular Story Premise Synthesis (MoPS), a method that modularizes and automates the generation of diverse, high-quality story premises, improving the quality of subsequent novels and scripts.
- **Open-Ended Diverse Solution Discovery with Regulated Behavior Patterns for Cross-Domain Adaptation** [[PDF](#)]
Association for the Advancement of Artificial Intelligence (AAAI), 2023
Kang Xu, Yan Ma, Bingsheng Wei, Wei Li
 - Focus on regulated diverse behavior pattern discovery in Diversity-driven Reinforcement Learning, which can facilitate cross-domain adaptation.
- **Dynamics-aware Novelty Search with Behavior Repulsion** [[PDF](#)]
Genetic and Evolutionary Computation Conference (GECCO), 2022
Kang Xu, Yan Ma, Wei Li
 - We present a hybrid Quality-Diversity paradigm that evolves high-performing solutions by introducing a generalized novelty measurement and a bidirectional gradient-based mutation operator.
- **Evolutionary Action Selection for Gradient based Policy Learning** [[PDF](#)]
International Conference on Neural Information Processing (ICONIP) 2022 (Oral)
Yan Ma, Tianxing Liu, Bingsheng Wei, Yi Liu, Kang Xu, Wei Li
 - Focus on inefficiency and brittleness in Evolutionary Reinforcement Learning (ERL) due to the utilization of Evolutionary Algorithms (EA) to optimize high-dimensional parameter space of policy network.

PROGRAMMING SKILLS

- **Languages:** Python, Bash, Markdown, Latex **Technologies:** Pytorch, Jax, DeepSpeed, NeoVim, Tmux, Git