

# Yan Ma

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## RESEARCH INTERESTS

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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.

## EDUCATION

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

## EXPERIENCE

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- **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*

## PROJECTS

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- **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](#)] (☆ 200+)
  - An extensive list of awesome papers about Story Generation / Storytelling, primarily focusing on the era of Large Language Models (LLMs).

## PUBLICATIONS

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- **MoPS: Modular Story Premise Synthesis for Open-Ended Automatic Story Generation** [PDF]  
*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

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