Yingpeng MA

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INTEREST

NLP and **LLMs**, in particular, **Open-ended Language Generation**.
I hope to combine traditional NLP methods with large language models (LLMs) to generate high-quality text that rivals human creation, especially in novels, scripts, and game narratives. By leveraging LLMs and human imagination, I aim to efficiently create virtual worlds and characters.

EDUCATION

University of Macau   Macau SAR, China
M.S. in Computer Science, Faculty of Science and Technology   *Aug. 2024 - Present*

Northwestern Polytechnical University (*Projerct 985*) Xi'an, Shaanxi, China
B.Eng. in Software Engineering, School of Software   *Sep. 2019 - Jun. 2022*
 Early Graduation
 (in three years, the first person in the School of Software)
 Excellent Graduation Thesis (3/217)

PUBLICATION

Linyi Yang*, **Yingpeng Ma*** and Yue Zhang. *Measuring Consistency in Text-based Financial Forecasting Models.* **ACL 2023 main conference**.
(* = equal contribution)

PATENT

Chunwei Tian, **Yingpeng Ma**, Xuanyu Zhang and Yanning Zhang. *A Transformer-based twin network image denoising method, system, media and equipment.* (2022)CN. Patent No. 202210032943.7.

AWARDS

1. **Excellent Graduation Thesis** Award (top **2%**),
   Northwestern Polytechnical University, 2022.

2. **Excellent Student** Award,
   Northwestern Polytechnical University, 2021.

3. **Second-Class Scholarship** (top **15%**),
   Northwestern Polytechnical University, 2021.

4. **National First Prize**,
   The 15th National University Students Intelligent Car Race, 2020.

PROJECTS

Consistency of financial forecasting models (NLP)   *Aug. 2022 - May. 2023*
1. Revealed the lack of consistency in existing NLP models for financial forecasting, making text-based market predictions unreliable; proposed a new method for consistency evaluation. This article was submitted and accepted by ACL 2023 (**co-first author**).

2. **Contribution**: Participated in experiment design, conducted all of experiments and analyzed results, wrote the initial draft of the article and drew the figures and tables.

3. **Mentor**: Prof. Yue Zhang and Dr. Linyi Yang

Survey of Role-play LLMs (NLP)   *Jul. 2023 - Present*
1. A survey paper, primarily focusing on literature concerning role-playing specific characters through Large Language Models (LLMs) and Agents, as well as other related works. (Work in progress, **first author**).

2. **Contribution**: Established the article framework, reviewed and organized literature, and wrote the initial draft. Also collected some human expert-annotated data for subsequent evaluation experiments.

3. **Mentor**: Prof. Yue Zhang

Efficient Image Denoising (CV)   *Jan. 2022 - Jun. 2022*

1. Proposed a method for Image Denoising by integrating Transformer and Convolutional Neural Networks (CNN), eventually culminating in a graduation thesis, which received an '**Excellent Graduation Thesis Award**' award (ranked **3rd** out of **217**).

2. **Contribution**: Improved and innovated upon the code of a CVPR paper, designed a new twin network model architecture for image denoising, conducted numerous experiments, and analyzed the results into a graduation thesis.

3. **Mentor**: Prof. Chunwei Tian

OPEN SOURCE *Awesome-Story-Generation* (NLP)   *Jun. 2023 - Present*

1. Collected an extensive list of awesome papers about Story Generation / Storytelling, primarily focusing on the era of Large Language Models (LLMs).

2. **Contribution**: As of today (**2024-09-09**), this repository has garnered **272** stars on GitHub.

SERVICE **Conference Reviewer**
ARR-2024, IJCAI-2024

Journal Reviewer
ACM TALLIP

Teaching Assistant, Westlake University   *Aug. 2023 - Dec. 2023*
CST1000: Introduction to Computer and Programming
Teacher: Prof. Yue Zhang

EXPERIENCE **University of Macau, NLP2CT Lab**   Macau SAR, China
Master Student, Faculty of Science and Technology   *Aug. 2024 - Present*
Research on the Story Generation and Role-playing
Mentor: Prof. Derek F. Wong

Westlake University, WestlakeNLP Lab   Hangzhou, Zhejiang, China
Research Assistant, School of Engineering   *Feb. 2023 - Jul. 2024*
Research on the Large Language Models
Mentor: Prof. Yue Zhang

Research Intern, School of Engineering   *Aug. 2022 - Feb. 2023*
Research on the Consistency of financial forecasting models
Mentor: Prof. Yue Zhang and Dr. Linyi Yang

NWPU, PerceptionVision Lab   Xi'an, Shaanxi, China
Research Intern, School of Software   *Aug. 2021 - Jul. 2022*
Research on the Image Denoising
Mentor: Prof. Chunwei Tian