# 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**

*Northwestern Polytechnical University (NWPU, Projerct **985**)*    Xi'an, Shaanxi
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. **Substantial Examination**.

**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

**Mini Reconnaissance Vehicle** (CV)        *Sep. 2020 - Sep. 2021*

1. Constructed a two-wheeled, small-scale, all-terrain unmanned reconnaissance vehicle, which achieved an **Excellent** Project Conclusion in the **National** College Students' Innovative Training Program.

2. **Contribution**: As the project lead, I was responsible for design and task distribution, completed the relevant code for the vehicle's movement module, and finally compiled and produced the finished product, leading to the successful completion of the project.

3. **Mentor**: Prof. Gong Cheng

**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 (**April 18, 2024**), this repository has garnered **150** stars on GitHub.

3. **Link**: Awesome-Story-Generation

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

**Westlake University, WestlakeNLP Group**        Hangzhou, Zhejiang
**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

**Research Assistant**, School of Engineering        *Feb. 2023 - Present*
Research on the Large Language Models and Causality
**Mentor**: Prof. Yue Zhang