

# Yongqian Peng

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🌐 <https://ppyqq.github.io/>



## Education

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2021 – present    📖 **B.E., Artificial Intelligence (Honored Program), Yuanpei College, Peking University, China**

### *Selected Courses*

1. *Computer Science Courses*: Introduction to Computer Systems; Computer Network (Honor Track); Algorithm Design and Analysis (Honor Track);
2. *Artificial Intelligence Courses*: Machine Learning; Early and Mid-Level Computer Vision; Natural Language Processing with Deep Learning; An Introduction to Robotics;
3. *Psychology Courses*: General Psychology; Social Psychology; Physiological Psychology;

2015 – 2021    📖 **Sun Yat-sen Memorial Secondary School, China**

## Research

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July.2023 – present    📖 **CoRe Lab, Institute for AI, Peking University, Advisor: Prof. Yixin Zhu**

*Research Interest*: Computer Vision; Cognitive Reasoning; AI + Psychology;

## Projects

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### 📖 **Probing Combinational Creativity in Generative Models**




- Propose a unified, graph-based representation for modeling combinational creativity.
- Assess the capability gap between humans and machines in the domain of combinational creativity.
- Introduce a method to enhance machines' ability to generate combinational creative products.

### 📖 **Multi-agent Co-creation System Enhances Story Creativity**

- Present evidence supporting the Blind Variation and Selective Retention (BVSR) theory's role in enhancing creativity.
- Develop a multi-agent co-creation storytelling system inspired by the BVSR theory to foster story creativity.

## Skills

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- Languages     Reading, writing and speaking competencies in English, Mandarin Chinese, and Cantonese.
- Coding       Proficiency in Python, PyTorch, C++,  $\LaTeX$ .
- Web Dev     Apache Web Server, Streamlit.

## Miscellaneous Experience

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### Awards and Achievements

- 2018     **First Prize in the Senior Group of the National Olympiad in Informatics in Provinces**, China Computer Federation (CCF).
- 2021     **Joint Entrance Examination to Chinese Universities for Overseas Chinese Students and Students from Hong Kong, Macao and Taiwan: Top 1**, Ministry of Education of the People's Republic of China
- 2023     **The Third Prize Scholarship**, Peking University.  
 **Model Student of Academic Records**, Peking University.