

# PINJUN DONG

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## EDUCATION

**Harbin Institute of Technology**  
*Statistics, Department of Mathematics*

September 2018 - June 2022  
*Bachelor of Science*

**Zhejiang University**  
*Mathematics, Department of Mathematics*

September 2022 - June 2025  
*Master of Science*

## EXPERIENCE

**The Hong Kong Polytechnic University**  
*Research Assistant*

July 2023 - September 2024  
*Supervisor: Binyan Jiang*

- Study the fundamentals of network data and the theoretical results of related models, including the spectral clustering method and several celebrated static and dynamic network models.
- Propose a ranking model that integrates individual effects with dynamic covariates. Then, design an alternating maximization algorithm for the MLE and thoroughly analyze the theoretical results of the model.
- Focus on a specific proportion of data with zero-inflation and illustrate the variance-adjusted effects on the objective function.

## PROJECT

**Alien Invasion**

August 2021

The project builds on a simple Python example, introducing exciting game mechanics such as six distinct attack models, each paired with an ultimate skill, along with dynamic updates to the background and music. These attack models offer varied gameplay strategies, while the ultimate skills provide impactful, game-changing moments, complete with visually stunning effects.

**Dropbox Assistant**

May 2024

The project is designed to use a remote spare computer to run Python code, leveraging Dropbox. The main idea is to share the code files via Dropbox, automatically execute the code, and save the results. By syncing the code files across devices, it ensures that any changes made to the scripts are immediately reflected on the remote machine. This setup allows for seamless execution without the need for manual intervention, making it an efficient solution for automating processes or running resource-intensive tasks remotely. Additionally, the results of each execution are automatically stored in Dropbox, ensuring easy access and secure backup.

**Translation**

July 2024

The motivation behind the script is to help me read academic papers more effectively. This lightweight script runs in the background and provides a shortcut key that instantly translates phrases by calling the Baidu translation API. This functionality streamlines the process of understanding complex academic language, allowing for quick, seamless translations without interrupting the flow of reading.

## PAPERS

Dong P, Han R, Jiang B, Xu Y. **Statistical ranking with dynamic covariates** - JRSSB under review.

Dong P, Jiang B, Li Q, Zheng Y. **A Hybrid Model for Zero-inflated Proportion Data** - Writing in progress.

## HONORS & AWARDS

**Outstanding Student** | Zhejiang University

2024

**Outstanding Student Leader** | Harbin Institute of Technology

2020

**First Prize in National High School Mathematics Competition** | Chinese Mathematical Society

2017

**Second Prize in National College Student Mathematics Competition** | Chinese Mathematical Society

2021