

YUPEI WANG

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EDUCATION

Beijing Jiaotong University

09 2018 – 06 2022

B.Sc. - Information and Computational Science - GPA: 3.69/4.00 - Rank: 10/73

Haidian, Beijing

I was qualified for a postgraduate recommendation in Sep. 2021, and will join the **Institute of Chinese Information Processing** at **Beijing Normal University** in Sep. 2022.

COURSEWORK

- | | | | |
|-----------------------------|--------------------------|---------------------------------|---------------------------|
| • Mathematical Analysis | • Probability/Statistics | • ODE & PDE | • Optimization |
| • Linear & Abstract Algebra | • Operations Research | • Information and Coding Theory | • Graph theory & Topology |
| | • Numerical Computing | | |

PROJECTS / RESEARCH

L2C-rater | RA at ICIP, BNU | Automated Essay Scoring with LTP & Sklearn

01 2020 – 08 2021

- **Paper** : *A Prompt-independent and Interpretable Automated Essay Scoring Method for Chinese Second Language Writing*. The source code of the paper is **publicly available**.
- This work aims to propose a **general automated essay scoring method** for Chinese second language(L2) writing. The paper proposes a method that integrates multi-dimensional **language complexity features, text error features and text representations**. Learning-based algorithms, such as **regression, tree-based methods and neural nets**, are used to learn to grade essays. This method not only has **high consistency with the behavior of human raters**, but also has **strong interpretability**, which can serve further research on writing feedback.

In Nov. 2021, I gave an **oral report** on this work at the 20th China National Conference on Computational Linguistics (**CCL 2021**);

- [L2C-rater online demo](#)
- Recently working on modeling **prompt adherence** of language test essays.

NEA-torch | Side project | Automated Essay Scoring with Torch

12 2021

- In 2016, a research group from the NUS released an neural model called Neural Essay Assessor (NEA) to automatically score English test essays.

Based on *Python 2* and *Keras 1.x*, NEA is now out of date. Therefore, I **rewrote** NEA with *python 3* and *PyTorch* in Dec. 2021. Preliminary tests show that the rewritten model behaves **as good as the** the original model.

Honors and Awards

1st Prize of Beijing District in CUMCM Contest

10/09/2020 – 13/09/2020

Finalist in MCM / ICM Contest

05/02/2021 – 09/02/2021

LANGUAGE

English | CET-6 : 615

TECHNICAL SKILLS

languages and Tools:

- * Proficient: *Python (Numpy, Pandas, SKLearn, Torch* mainly) and \LaTeX ;
- * Novice: *C++* and *MySQL*;

Domain Related:

- * Understand the fundamentals of common neural architectures in NLP, such as *CNN, RNN*, including pre-trained models like *BERT*;
- * Know how to implement the above architectures with *PyTorch*;