

Zhangzhi Peng
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Education:

East China Jiaotong University,
Computer Science,
Bachelor student,
Sep.2019-present

Research Experience:

- “Exploring Spatial-temporal traffic flow data”, prepared to submit to **IEEE Transactions on Intelligent Transportation Systems**.
To effectively model the spatial-temporal features, I improve transformer architecture and design several modules to transfer transformer to traffic prediction task. In addition, I design a self-supervised learning task to pre-train the model to learn robust representations.
- Open source a deep learning wrapper.
According to the design philosophy of keras, We encapsulated the pytorch code and designed several high-level APIs to make the use of pytorch more convenient. I was in charge of writing documentation and developing advanced APIs including(callbacks, metrics, etc). From this experience, I learned English document writing, co-development, and deepened my understanding of the usage of git, pytorch, and keras.
Github link: <https://github.com/blueloveTH/keras4torch>

Activities/ Honors:

- **Second Prize:**
2020 Jiangxi Smart Transportation Technology Competition

- **Third Prize:**
2020 Jiangxi Smart Transportation Technology Competition

- **Third Prize:**
2020 China University Computer Competition-Artificial Intelligence Innovation Competition

(I was the captain in the three competitions.)

- **Third Prize:**
East China Jiaotong University Mathematics Competition

- **Third Prize:**
2020 National College Mathematics Ability Competition

Skills:

- Master python, deep learning framework (pytorch, tensorflow), object-oriented programming, Linux and git.
- Familiar with C, C++, Java and functional programming.