

# Songning Lai

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## Education experience

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Shandong University

09/2020–present

major: Chongxin Xuetao(Electronic information major)

GPA: 3.35/5.00 (83.53/100.0)

### ◆ Awards of the competition:

#### • National awards

- ① First Prize in Contemporary Undergraduate Mathematical Contest in Modeling National (Top 0.6%)
- ② First Prize in MathorCup University Mathematical Modeling Challenge National (Top 3%)
- ③ Second Prize in Yangtze River Delta University Mathematical Contest in Modeling National
- ④ Bronze Medal in China Collegiate Algorithm Design & Programming Challenge Contest
- ⑤ Meritorious Winner Mention in 2022 Interdisciplinary Contest In Modeling Certificate of Achievement
- ⑥ Second Prize in Asia and Pacific Mathematical Contest in Modeling
- ⑦ Third Prize in May Day Mathematical Contest in Modeling

#### • Provincial awards

- ① Second Prize in National Undergraduate Electronic Design Contest ( Shandong Province )
- ② Second Prize in National Crypto-math Challenge Second (East China Competition)

#### • School award

More than 35 university-level awards, including academic competition, social practice, innovation and entrepreneurship, sports, aesthetic education, volunteer, scholarship and other aspects, are not displayed here.

#### • Others

- ① Computer software copyright first copyright owner
- ② Computer software copyright third copyright owner

### ◆ Scientific research activity:

#### • Received article

① IEEE/EI ( CISP-BMEI ) **best paper award** the first author: Predicting Lysine Phosphoglycerylation Sites using Bidirectional Encoder Representations with Transformers & Protein Feature Extraction and Selection

#### • Under way

- ① First Author under review (JCR Q2, IF = 3.307 CCF C): main work is the prediction model of protein post-translational modification sites based on bert.
- ② Patent in investment: main work is the prediction model of protein post-translational modification sites based on bert.
- ③ First Author under review (IEEE Transactions on Affective Computing (JCR Q1 IF:13.99, CCF B))The work is in the field of multimodal sentiment analysis, combining self-supervised learning strategy and multi-task learning, and transferring the idea of domain generalization to multimodal tasks.
- ④ Multimodal Sentiment Analysis: A Survey. Under review in the journal Visual Intelligence.(First author)
- ⑤ Cross-Domain Car Detection Model with Integrated Convolutional Block Attention Mechanism. Under review in the journal Image and Vision Computing (JCR Q1 IF:3.86).(Co-first author)

#### • Laboratory experience

Page for more information, see attached and personal website: <https://xl0328.github.io/>. Personal website includes manuscripts of research results and project experiences

## Student work experience

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- Oops Publicity Director, Translator of International Affairs Office, Director of Publicity Department of Qstar Volunteer Group, Science and Technology Department of Science and Technology Innovation Association, Secretary of Press Corps of More than one College, class publicity Committee member, class Psychology Committee member, class monitor, etc.

## Other

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- Understand and master design software such as PS, AI and SAI, and have won the first prize of the city and the second prize of the province in computer painting competition.
- Programming languages: python, MATLAB, C/C++, R