

# Chuanhao Zhang

SOUTHWEST UNIVERSITY · COLLEGE OF ELECTRONIC AND INFORMATION ENGINEERING

Chongqing, China

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## Education

### Southwest University

M.S. IN COMMUNICATION ENGINEERING

- Received the first-class scholarship of the school.

Chongqing, China

Sept. 2020 - PRESENT

### Shandong Normal University

B.S. IN ELECTRONIC AND INFORMATION ENGINEERING

- Got First-class scholarship and outstanding student of the university for three consecutive years.
- Received the NCRE Embedded Systems Engineer Certificate.

Shandong, China

Sept. 2016 - June. 2020

## Experience

### Undergraduate Research, MAI-Lab(Prof. Yuan Zhang)

RESEARCHER FOR <PORTABLE SLEEP HEALTH EQUIPMENT DEVELOPMENT>

- Researching algorithms for sleep staging with multi-modal biological signals.
- Researching on non-contact sleep monitoring devices.

Chongqing, China

Sept. 2020 - PRESENT

### Shandong Province Key Laboratory of Medical Physical Image Processing Technology

RESEARCHER FOR <MEDICAL IMAGE PROCESSING>

- Processing on the blood pathology images.

Shandong, China

Dec. 2018 - Oct. 2019

## Extracurricular Activity

### College Student News Service

CORE MEMBERT

- Maintained official university social media operations.
- Got the Awarded Worker of the Year at 2018.

Shandong, China

Jun. 2016 - Jun. 2019

### College student entrepreneurship project

TEAM LEADER

- Participated in the development of crop detection algorithms.

Shandong, China

Jun. 2018 - Sep. 2018

## Honors & Awards

### INTERNATIONAL

2021 **Youth Travel Award**, The 3rd Congress of Asian Society of Sleep Medicine

Beijing, China

2018 **Honorable Mention**, Interdisciplinary Contest In Modeling

Bedford, USA

2017 **Honorable Mention**, Mathematical Contest In Modeling

Bedford, USA

### DOMESTIC

2021 **7th Place**, The 1st Sleep Staging Man-Machine Competition

Beijing, China

2019 **Shandong Province First Prize**, National Student Electronic Design Competition

Shandong, China

2018 **Third Prize**, National University Mathematics Competition

Shandong, China

2018 **Shandong Province Second Prize**, National University Mathematics Competition

Shandong, China

2018 **Shandong Province Third Prize**, National Student Mathematical Modeling Competition

Shandong, China

2018 **Shandong Province Third Prize**, China College Students 'Internet+' Innovation and Entrepreneurship Competition

Shandong, China

2017 **Third Prize**, National Data Mining Challenge

Shandong, China

2017 **Second Prize**, National Student Mathematical Modeling Competition

Shandong, China

2017 **Shandong Province Third Prize**, China College Students 'Internet+' Innovation and Entrepreneurship Competition

Shandong, China

## Presentation

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### 3rd Congress of Asian Society of Sleep Medicine

ORAL PRESENTER FOR <SEMI-SUPERVISED RESIDUAL ATTENTION NETWORK FOR SLEEP STAGING>

Beijing, China

May, 2021

## Publication

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### Semi-supervised residual attention network for sleep staging

ASSM

1ST AUTHER

May, 2021

- Proposed a novel hybrid residual attention convolutional neural network for automatic sleep staging.

### Hybrid manifold-deep convolutional neural network for sleep staging

Methods

1ST AUTHER

Jan, 2021

- Provided an efficient and accurate automated method for sleep staging, with potential clinical applications in the diagnosis of sleep disorders.

### Hybrid Adversarial-Discriminative Network for Leukocyte Classification in Leukemia

Medical Physics

1ST AUTHER

Oct, 2020

- Proposed a deep learning-based model for pathological image analysis.

### Design of STM32-based oil particle contamination detection system

Journal of Capital Normal University

5TH AUTHER

Oct, 2019

- Drafted reports about the quality identification of lubricants.

## Program Committees

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2021    **Staff**, China Biomedical Engineering Annual Conference <Active Sleep Health Session>

Shenzhen, China