

# Yangkai Du

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## CONTACT

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## EDUCATION

**Junior student in Computer Engineering**  
**Zhejiang University/University of Illinois at Urbana-Champaign Institute**  
**Fall 2017 - present**

**Visiting student in Department of Computer Engineering**  
**University of Illinois at Urbana-Champaign**  
**Fall 2019**

### Highlight courses:

Data Structures; Computer Systems & Programming; Computer System Engineering; Artificial Intelligence; Natural Language Processing; Algorithms and Models of Comp

**Cumulative GPA:** 3.87 (including only UIUC course)

## RESEARCH

**Knowledge Graph Construction for Intelligent Maintenance of Power Plant**  
**April 2019 -- Present**

**Advisor:** [Hongwei Wang](#)

**Focus:** The research project intends to extract knowledge and data from large number of non-structured power plant maintenance report and build knowledge graph based on relation between knowledge entities.

**Experience:** We manually labeled part of maintenance report and did some experiment by applying Bi-LSTM-Lattice model to extract knowledge. Currently we have a relatively good result with applying lattice model on named entity extraction. We proposed a framework to build knowledge graph for power plant and our paper gets published on conference ICEBE 2019, and we are awarded as Best Paper of conference.

## PUBLICATION

**Knowledge Graph Construction for Intelligent Maintenance of Power Plant**  
**Yangkai Du, Jiayuan Huang, Shuting Tao, Hongwei Wang\*. 2019**

HONORS AND  
AWARDS

Best Paper Award ICEBE2019. Awarded to 2 out of all the submissions.

Third-class Scholarship of Zhejiang University

2019

Best Summer Research Projects/Internship of Zhejiang University/University of Illinois at Urbana-Champaign Institute

Third-class Scholarship of ZJUI Institute

2018

SKILLS AND  
LANGUAGE

- Skills: Python, C++, Matlab, experience with TensorFlow, PyTorch, Git
- Language: Chinese, English