

YANGKAI DU

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EDUCATION

Zhejiang University

June 2017 - Present

Dual degree program in Zhejiang University/University of Illinois at Urbana-Champaign Institute

Major: Computer Engineering

Expected Graduation Date: June 2021

B.ENG. in Computer Engineering, Zhejiang University

B.S. in Electrical and Computer Engineering, University of Illinois at Urbana-Champaign

University of Illinois at Urbana-Champaign

August 2019 - Dec 2019

Exchange Student in Department of Electrical and Computer Engineering

overall GPA: 3.87

ACADEMIC INTERESTS

Interested in **Natural language processing**, **pattern recognition** and **Artificial Intelligence**. Recently, he has been involved in a knowledge graph construction projects for intelligent maintenance of power plant.

RESEARCH EXPERIENCE

Face recognition on a small scale of data

Advisor: Haoji Hu

June 2018 - July 2018

- The research project intends to propose a novel neuro-based model to improve the performance of face recognition task under small scale of training data.
- Learned basic concepts and techniques of neuro network and pattern recognition.
- Implemented a very basic neuro-based handwritten digit recognition model.

knowledge graph construction for intelligent maintenance of power plant

Advisor: Hongwei Wang

April 2019 - Present

- The research focuses on the experience feedback issue in power plants maintenance.
- The research intends to propose a novel process of automatic construction and reasoning of knowledge graphs to support the intelligent maintenance of complex power equipment.
- We manually labeled part of maintenance report and did some experiment by training Bi-LSTM-Lattice model on entities extraction and Multi-grained lattice model on relation extraction.
- Our paper is accepted as a long paper of International Conference on e-Business Engineering (ICEBE) and published by Springer-Verlag. The paper also got **Best Paper Award** on ICEBE 2019.

PUBLICATION

knowledge graph construction for intelligent maintenance of power plant

Yangkai Du, Jiayuan Huang, Shuting Tao, Hongwei Wang. Advances in E-Business Engineering for Ubiquitous Computing. ICEBE 2019. Lecture Notes on Data Engineering and Communications Technologies, vol 41. Springer, Cham.

SKILLS

Programming Languages	Python, C, C++
Packages & APIs	Pytorch, Numpy
Tools	SVN, Git, Shell, Latex, Matlab
Languages	Chinese, English

SELECTED HONORS & AWARDS

Best Paper Award ICEBE2019. Awarded to 2 out of all the submissions	2019
Third-class Scholarship of Zhejiang University	2019
Best Summer Research Projects/Internship of Zhejiang University/University of Illinois at Urbana-Champaign Institute	2019
Third-class Scholarship of ZJUI	2019
Academic Excellent Individual of Zhejiang University	2019
Third-class Scholarship of ZJUI	2018

RELEVANT COURSEWORK

CS101-Intro Computing: Engrg & Sci	A-
learned some basic python and matlab programming language and skills.	
ECE120-Intro to Computing	A
learned about assembly language and some basic concepts of machine-level architecture.	
ECE220-Computer Systems & Programming	A
learned about assembly language and some basic concepts of machine-level architecture.	
CS225-Data Structures	A
learned concepts and applications of basic data structures, implementing data structures with C++	
ECE374-Algorithms & Models of Computation	A
learned design and analysis of algorithms, formal automata, computability, and complexity.	
ECE391-Computer System Engineering	A
learned concepts of modern computer system design and system programming skills.	
ECE448-Artificial Intelligence	A
learned basic concepts of AI, basic techniques of neuro network and reinforcement learning, coding with pytorch	
CS447-Natural Language Processing	A
learned basic concepts of computational linguistics, from morphology, syntax to semantics, nlp applications such as syntax parsing, machine translation, generation and dialog systems.	

TRANSCRIPT

A Completed Version of official Transcript can be checked and downloaded [here](#).



UNIVERSITY OF ILLINOIS AT URBANA - CHAMPAIGN

Urbana, Illinois 61801

Student Name: **Du, Yangkai**

University ID: **660131896**

Issue Date: **07 - Feb - 20**

Level: **Undergrad - Urbana-Champaign**

Day - Month of Birth: **16 - May**

Most Recent Program(s) College : Grainger Engineering Major : Nondegree				Term Information continued: Nondegree			
SUBJ NO.	COURSE TITLE	CRED GRD	PTS R	SUBJ NO.	COURSE TITLE	CRED GRD	PTS R
INSTITUTION CREDIT:				ANTH 103	Anthro in a Changing World	3.00 A	12.00
Fall 2017 - Urbana-Champaign				CS 447	Natural Language Processing	3.00 A	12.00
Grainger Engineering				ECE 374	Intro to Algs & Models of Comp	4.00 A	16.00
Nondegree				ECE 391	Computer Systems Engineering	4.00 A	16.00
MATH 221	Calculus I	4.00 A+	16.00	ECE 448	Artificial Intelligence	3.00 A	12.00
RHET 101	Principles of Writing	3.00 A-	11.01	Ehrs: 17.00 GPA-Hrs: 17.00 QPts: 68.00 GPA: 4.00			
Ehrs: 7.00 GPA-Hrs: 7.00 QPts: 27.01 GPA: 3.85				***** TRANSCRIPT TOTALS *****			
Spring 2018 - Urbana-Champaign				Earned Hrs GPA Hrs Points GPA			
Grainger Engineering				TOTAL INSTITUTION	49.00	49.00	190.02 3.87
Nondegree				TOTAL TRANSFER	0.00	0.00	0.00 0.00
ECE 120	Introduction to Computing	4.00 A	16.00	OVERALL	49.00	49.00	190.02 3.87
MATH 231	Calculus II	3.00 A+	12.00	***** END OF TRANSCRIPT *****			
RHET 102	Principles of Research	3.00 A-	11.01				
Ehrs: 10.00 GPA-Hrs: 10.00 QPts: 39.01 GPA: 3.90							
Fall 2018 - Urbana-Champaign							
Grainger Engineering							
Nondegree							
ECE 220	Computer Systems & Programming	4.00 A	16.00				
Ehrs: 4.00 GPA-Hrs: 4.00 QPts: 16.00 GPA: 4.00							
Spring 2019 - Urbana-Champaign							
Grainger Engineering							
Nondegree							
CS 225	Data Structures	4.00 A	16.00				
ECE 210	Analog Signal Processing	4.00 B	12.00				
ENGL 115	Intro to British Literature	3.00 A+	12.00				
Ehrs: 11.00 GPA-Hrs: 11.00 QPts: 40.00 GPA: 3.63							
Fall 2019 - Urbana-Champaign							
Grainger Engineering							
***** CONTINUED ON NEXT COLUMN *****							

Recipient: **YANGKAI DU**

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Meghan Hazen, Registrar

Issued to: **REFNUM: 20023245057**

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