HAORAN YOU

No.1037, Road LuoYu, WuHan, China

Phone: +86 15927596979 E-mail: ranery@hust.edu.cn Website: https://ranery.github.io

EDUCATION

Huazhong University of Science and Technology (HUST) Wuhan, China

Bachelor of Electronic Information Engineering Sep. 2015 - Jul. 2019

- **Overall GPA: 3.92/4 (90.1/100)**
- **Core Courses**: Calculus (100); Probability Theory & Statistics (100); Mathematical Modeling (99); Numerical Analysis (98); Digital Image Processing (93); Introduction to Machine Learning (87); Data Structure (82); Software/Hardware Curriculum Design (Excellent); Data Mining (Excellent)

MANUSCRIPT

Haoran You, Yu Cheng*, Chunliang Li*, Tianheng Cheng*, Pan Zhou. Bayesian CycleGAN via Marginalizing Latent Sampling. Under the process of reviewing. (* indicates equal contribution.) [arXiv] [Code]

Haoran You, Xinggang Wang, Yu Cheng. High-Resolution Image Synthesis and Edge Detection with CycleGAN. *In process*

ACADEMIC EXPERIENCE

Research Theme: Bayesian CycleGAN Sep. 2017 - Present

Under the instruction of Dr.Yu Cheng (Researcher, Microsoft Redmond Lab)

- Propose a novel Bayesian extension of cyclic generative model and an integrated cyclic framework for unsupervised inter-domain mappings; Prove the proposed method has global optimality theoretically.
- Use quantitative and qualitative evaluations to demonstrate the proposed method can achieve more stable training, better performance and diversified image generating. [Manuscript 1]

Media and Communication Laboratory Apr. 2016 - Sep. 2017

Under the Instruction of Prof. WenYu Liu (Ph.D Supervisor, HUST)

- Design and implement face recognition experiment, and give a presentation in front of group members.
- Take the preliminary *Machine Learning (Andrew Ng)* and *Deep Learning (Stanford CS231)* courses.

CONTEST EXPERIENCE

Interdisciplinary Contest in Modeling (Team Leader) Jan. 2018 - Feb. 2018

Out of Gas and Derive on Electric!

- Explore the develop strategies of Tesla charging stations for various countries with taking such a wide variety factors as different geographies, population density and wealth distributions into account.

MathorCup Mathematical Model Contest (Responsible for coding) May. 2017 - Jun. 2017
Model blast furnace iron-making process

· Apply machine learning algorithms to predict furnace temperature, optimize iron-making process and analyze model sensitivity instead of solving differential equations, achieving better results.

Mathematical Model Contest in Central China (Team Leader) Apr. 2017 - May. 2017
Social clustering based on communication data

· Apply fast network clustering algorithm to cluster the community and select minimum center advertisement information delivery nodes to achieve maximum information coverage.

COURSE PROJECTS

High-Resolution Image Synthesis and Edge Detection Oct. 2018 - Present
Under the instruction of Dr. Xinggang Wang (Computer Vision Course)

· Construct progressing growing hierarchical structure for both generator and discriminator of CycleGAN to achieve high resolution image synthesis and edge detection. [Manuscript 2]

Wifi-based indoor positioning May. 2018 - Jun. 2018
Under the instruction of Prof. Bang Wang (Machine Learning Course)

· Given data with noise biased. Infer position coordinate based on signal strength of other coordinates.
· Try various ML algorithms to find the suitable one with best performance and explain why.

Zhihu Crawler Oct. 2017 - Feb. 2018
Software for crawling topics on Zhihu (Software Curriculum Design)

· Design and implement the multi-threading breadth-first-algorithm to capture all topic-related contents.
· Store the crawling topic-related questions and answers with fixed and readable structure.

SELECT AWARDS AND HONORS

Samsung Scholarship of HUST (One person in my department).	2017 - 2018
Interdisciplinary Contest In Modeling (ICM), Meritorious Winner (International 10%).	Apr. 2018
Selected as *Outstanding Undergraduates in Term of Academic Performance*, (HUST 1%).	Dec. 2017
The seventh MathorCup Mathematical Model Challenging Contest, First Price (China 3%).	Jul. 2017
The Eighth Chinese Mathematics Competition (CMC), First Price (China 5%).	Nov. 2016

ENGLISH PERFORMANCE

GRE	Verbal: 152	Quantitative: 168	Analytical Writing: 3.5	
TOEFL	Reading: 27	Listening: 22	Speaking: 20	Writing: 24

TECHNICAL STRENGTHS

Computer Languages	Python, MATLAB, C
Software & Tools	PyTorch, LaTeX, Mathematica, Lingo, Git · · ·