

Haochen Yuan

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EDUCATION

School of EECS, Peking University, Beijing, China	Sep 2017 – July 2021
<ul style="list-style-type: none">• B.S. in Computer Science and Technology• Bachelor Thesis: Research on Text Style Transfer with Question Data	
Intensive English Program, Yale Summer Session B, Yale University, CT, USA	July 2019 – Aug 2019
School of Software and Microelectronics, Peking University, Beijing, China	Sep 2021 – July 2023
<ul style="list-style-type: none">• B.E. in Software Engineering	
School of Computer Science, Peking University, Beijing, China	Sep 2022 – July 2025
<ul style="list-style-type: none">• M.E. in Computer Architecture, Advisor: Zhi Yang• Research Interests: Computer Networks and Distributed Systems	

RESEARCH EXPERIENCES

Research on Text Style Transfer with Question Data	Feb 2021 – June 2021
Bachelor's Thesis Advisor: Junfeng Hu, Associate Professor at ICL, Peking University	
<ul style="list-style-type: none">➤ Proposed and implemented a controllable text paraphrase generation algorithm utilizing the Attention mechanism and the BiLSTM model; successfully achieved paragraph expression from generalized input to format sentences with fixed syntaxes.➤ Leveraged the end-to-end method to train models and applied the word embedding algorithm, CBOW.➤ Designed comprehensive datasets (10,000 sentence pairs) and aggregated quantitative metrics.(Acc72.13,BLEU52.69)	
Progressive Graph-Signal Sampling and Encoding for Static 3D Geometry Representation	Mar 2020 – Aug 2020
Lab Intern Advisor: Wei Hu, Assistant Professor at WICT, Peking University	
<ul style="list-style-type: none">➤ Tasked with discovering a high-fidelity compression algorithm for point cloud datasets of static 3D geometry shapes.➤ Proposed the utilization of a smooth 2D manifold in 3D space to approximate the geometric shape of a target object.➤ Developed an algorithm by conducting repetitious iterations of linear interpolation on an initial point cloud data subset.	
Fake News Detection with Machine Learning based method	Mar 2020 – July 2020
Research Assistant Advisor: Jindi, PhD at CSAIL, Massachusetts Institute of Technology	
<ul style="list-style-type: none">➤ Worked on detecting diverse types of Fake Web News through the utilization of NLP & ML methods.➤ Leveraged two methods to encode the text: TF-IDF and Global Vectors for Word Representation.➤ Utilized Support Vector Machines and text Convolutional Neural Networks for stance detection for Fake News.➤ Separately tuned models to complete a fusion of them; utilized under-sampling and loss-weight adjustment to obtain 75.78(Acc) on the FNC-1 Challenge.	

INTERN EXPERIENCES

Tencent Software Engineer Intern Map Product Quality Center, Engineering Performance Group	Feb 2022 – May 2022
<ul style="list-style-type: none">➤ Learned engineered code specifications, flow line production platform and project management methods.➤ Provided back-end solutions for improving engineering performance in Tencent Map Product and relevant applications.➤ Independently developed web application: Auto Registration for Development Platforms.	

LEADERSHIP AND ACTIVITIES

Student Union , Peking University Ministry of Supervision Vice Minister	Sep 2018 – June 2019
<ul style="list-style-type: none">➤ Organized meetings, collected feedback from student representatives to improve service offered by Student Union.➤ Organized teams to supervise the Council of Ministers of Peking University Student Union.	
Mountaineering Association , Peking University Ministry of Document Vice Minister	Sep 2018 – June 2019
<ul style="list-style-type: none">➤ Contributed to the MAPKU 2018 Tibet Scientific Examination Team and the 2019 Climbing Skills Training Team.➤ Led the Information department of MAPKU, which has over 300 members and maintains documents and certificates.	

SKILLS

Programming Languages: C/C++, Python, Java, MATLAB

English Language: TOEFL Best Scores: 105 (Reading 30, Listening 27, Speaking 23, Writing 25), GRE: (V151, Q170)