

YUBO ZHANG

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EDUCATION

University of North Carolina at Chapel Hill

Ph.D. student in Computer Science

Advisors: Prof. Mohit Bansal

Research Interests: Natural Language Processing and Computer Vision

Aug. 2018 - Present

Chapel Hill, NC, USA

Tsinghua University

Bachelor of Engineering in Automation

Cumulative GPA: 87/100, Major GPA: 89/100

Aug. 2014 - Jul. 2018

Beijing, China

RESEARCH EXPERIENCE

University of North Carolina at Chapel Hill

Research Assistant, Department of Computer Science

Advisor: Prof. Mohit Bansal

- Focusing on vision and language grounding problems, i.e., vision-and-language navigation and visual question answering tasks.
- Developing more structured representations for vision and language modalities.
- Improving the generalizability and interpretability of neural agent models.

Aug. 2018 - Present

Chapel Hill, NC, USA

University of North Carolina at Chapel Hill

Research Assistant, Department of Computer Science

Advisor: Prof. Alexander Tropsha and Prof. Mohit Bansal

- Using machine learning and natural language processing techniques to analyze medical context.
- Medical concept normalization and relation extraction in social media posts.

Aug. 2018 - May. 2019

Chapel Hill, NC, USA

University of Southern California

Research Intern, Department of Electrical Engineering

Advisor: Prof. C.-C. Jay Kuo

- Medical MRI image super-resolution with signal processing and generative adversarial networks.
- Medical MRI image segmentation with deep neural networks.

Jun. 2017 - Sept. 2017

Los Angeles, CA, USA

Tsinghua University

Student Member in Team Tsinghua-A

Advisor: Prof. Xiaowo Wang and Prof. Zhen Xie

- Modeling synthetic biological processes using information theory.
- Participate in iGEM 2016 Competition, project wiki: <http://2016.igem.org/Team:Tsinghua-A>.

Sept. 2015 - Nov. 2016

Beijing, China

Tsinghua University & Beihang University

Research Assistant, Department of Electrical Engineering

Advisor: Prof. Yonggang Guan and Prof. Junmin Zhang

- Wavelet transform in cables' fault detection.

Jun. 2015 - Apr. 2016

Beijing, China

PUBLICATION

Yibin Xie, Ruiyuan Lin, Yuhua Chen, **Yubo Zhang**, Feng Shi *et al.*. "Super Resolution MRI Using 3D Generative Adversarial Network: Towards Single Breath-Hold Coronary MR Angiography," in *Joint Annual Meeting ISMRM-ESMRMB*, 2018, Abstract.

Junmin Zhang, **Yubo Zhang**, and Yonggang Guan. “Analysis of time-domain reflectometry combined with wavelet transform for fault detection in aircraft shielded cables,” in *IEEE Sensors Journal*, 16.11 (2016): 4579-4586.

SKILLS

Programming: Python, C/C++, C#, Matlab, Verilog HDL

Tools: PyTorch, L^AT_EX, Git, Linux

Language: Chinese (Native), English

OUTREACH

Women’s Soccer Team of Department of Automation, Tsinghua University	Aug. 2014 - Jul. 2018
<i>Captain from August 2016 to July 2017</i>	<i>Beijing, China</i>

Women’s Soccer Team of Tsinghua University	Aug. 2015 - Jul. 2018
<i>Team member</i>	<i>Beijing, China</i>