Yutong ZHOU

PH.D. STUDENT

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About Me

Currently, I'm a first year Ph.D. student in **Interaction Laboratory** at **Ritsumeikan University** (since Fall 2020) and supervised by **Prof.Nobutaka Shimada**. My research interests are vision-language cooperative representation and multi-modalities learning, which includes text-to-face synthesis and manipulation, face analysis, and image synthesis in various industries. I have proposed a SOTA text-to-face dataset and new metrics to driven research in this field.

Before that, I received my M.E. in Ritsumeikan University with research on the video-based draining task, supervised by Prof.Nobutaka Shimada, and got my double certificated B.E in software engineering in **Dalian University of Technology(DUT)** and B.E in information science and engineering in **Ritsumeikan University(RU)**.

I have published **6** papers and research reports on journals, international conferences and domestic conferences (about video de-raining and text-to-face synthesis tasks), and responsible for **3** projects (neural machine sign language translation, face-glasses composition & generation task, and the ingredients place order and location prediction of a bento for industrial automatic robotics).

With 5 years abroad life nourishes my English, Japanese and gains my independence. I am also an amateur poet, pianist, basketball player, and keen on cooking and baking.

Education

Ritsumeikan University   *Shiga, JAPAN*
PH.D. IN INFORMATION SCIENCE AND ENGINEERING   *September. 2020 - Present*

- Supervisor: Nobutaka Shimada
- **GPA: 5.0/5.0**

Ritsumeikan University   *Shiga, JAPAN*
M.E. IN INFORMATION SCIENCE AND ENGINEERING   *September. 2018 - August. 2020*

- Supervisor: Nobutaka Shimada
- **GPA: 4.76/5.0**

Ritsumeikan University   *Shiga, JAPAN*
B.E. IN INFORMATION SCIENCE AND ENGINEERING   *September. 2016 - August. 2018*

- Supervisor: Nobutaka Shimada

Dalian University of Technology(Project 985 University, Top23 in China)   *Dalian, CHINA*
B.E. IN SOFTWARE ENGINEERING   *September. 2014 - August. 2018*

Publication

[1] Generative Adversarial Network for Text-to-Face Synthesis and Manipulation with Pretrained BERT Model   *International Conference(Undecided)*

IEEE INTERNATIONAL CONFERENCE ON AUTOMATIC FACE AND GESTURE RECOGNITION 2021(FG 2021)   *Under Submission*

- **Zhou Yutong** and Nobutaka Shimada

[2] Spatial and Channel-wise Attention in Generative Adversarial Network for Text-to-Face Synthesis and Manipulation   *Domestic Conference(Online)*

IPSJ SIG-CVIM: COMPUTER VISION AND IMAGE MEDIA(CVIM 255)   *March. 2021*

- **Zhou Yutong** and Nobutaka Shimada

[3] Spatial and Channel-wise Attention in Generative Adversarial Networks for Text to Face Synthesis   *International Conference(Online)*

THE 1ST INTERNATIONAL WORKSHOP ON INTELLIGENT SYSTEMS(IWIS 2020)   *December. 2020*

- **Zhou Yutong** and Nobutaka Shimada

[4] Rain Streaks and Snowflakes Removal for Video Sequences via Motion Compensation and Matrix Completion   *Journal*

SN COMPUTER SCIENCE   *October. 2020*

- **Zhou Yutong** and Nobutaka Shimada

[5] Using motion compensation and matrix completion algorithm to remove rain streaks and snow for video sequences

THE 5TH ASIAN CONFERENCE ON PATTERN RECOGNITION(ACPR 2019)

- **Zhou Yutong** and Nobutaka Shimada

[6] Using Motion Compensation and Matrix Completion Algorithm to Remove Rain Streaks and Snow for Video Sequence

THE 22ND MEETING ON IMAGE RECOGNITION AND UNDERSTANDING(MIRU 2019)

- **Zhou Yutong** and Nobutaka Shimada

[7] Rain Streaks Detection and Removal Using Temporal Correlation and EM-Based Low-Rank Matrix Completion for Video Sequences

THE 14TH JOINT WORKSHOP ON MACHINE PERCEPTION AND ROBOTICS (MPR 2018)

- **Zhou Yutong** and Nobutaka Shimada

Research Experience

Research Assistant

WITH PROF.NOBUTAKA SHIMADA

Ritsumeikan University

September. 2020 - Present

Teaching Assistant

INFORMATION SCIENCE AND ENGINEERING

Ritsumeikan University

September. 2018 - August. 2020

- Workshop in Physical Computing
- Experiments in Physical Computing
- Remote Sensing Engineering

Teaching Assistant

GASTRONOMY MANAGEMENT

Ritsumeikan University

September. 2018 - August. 2020

- Introduction to statistics
- CALL 1
- CALL 2

Educational Supporter

ECONOMICS

Ritsumeikan University

April. 2017 - August. 2018

- ICT English
- Chinese Basic

Skills

Programming   Python, MATLAB, PyTorch, TensorFlow
Languages   **Chinese**(Native), **English**(Advanced), **Japanese**(Advanced)

Honors & Awards

2019	**Young Researcher Award**, Ritsumeikan University Graduate School of Information Science and Engineering
2019-2020	**The Asahi Glass Foundation Scholarship**, For International Students in Japan (Only 6 winners in Japan)
2019	**Academic Excellence Scholarship for 2nd Year of Enrollment I**, Ritsumeikan University (Top 10%)
2018	**Best Poster Presentation Award**, The 14th Joint Workshop on Machine Perception and Robotics (3/36)
2018	**Academic Excellence Scholarship for 1st Year of Enrollment I**, Ritsumeikan University (Top 10%)
2018	**Fully Funded Scholarship**, Ritsumeikan University Tuition Reduction Scheme for International Students (Top 10%)
2017	**Fully Funded Scholarship**, Ritsumeikan University Tuition Reduction Scheme for International Students (Top 10%)
2015	**Bronze**, AkzoNobel China Student Sustainability Award (Top 20% in China)
2014	**First Prize**, School of Software of Dalian University of Technology speech contest (1/25)