YIXUAN WEI

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EDUCATION

A Junior at Tsinghua University, Beijing, China *September 2016 - Present*
Department of Automation *Overall GPA:* **3.6/4**, RANK: **12/164**
Second Degree at Tsinghua University, Beijing, China *September 2017 - Present*
Business Administration

AWARDS AND SCHOLARSHIPS

Comprehensive Scholarship(0.5% of student body per year), Tsinghua University *2017*

Social Practice Excellence Award, Tsinghua University

Social Service Excellence Award, Tsinghua University

National Scholarship, Ministry of Education of China *2018*

The Second Prize in the 36th *Challenge Cup* Students Extracurricular Academic Science and Technology Contest, Tsinghua University

The First Prize in the 20th National Robot and Artificial Intelligence Competition, Chinese Association for Artificial Intelligence

RESEARCH INTERESTS

- **Computer Vision** — 3D Vision / Biological Application
- **Machine Learning** — Multimodal Learning / Reinforcement Learning
- **Robotics** — Robotic Vision / Active Perception

RESEARCH EXPERIENCE

Sakura Exchange Program in Science August 2017
Short Term Exchange Student *Soka University, Japan*

- Visited a few famous enterprises in Japan and attended some conferences on their recent research projects and results.
- Visited Soka University, Japan. Visited some laboratories on the campus and talked with some researchers and Ph.D students.

With Prof. Huaping Liu September 2017 - Present
Undergraduate Researcher *Computer Science Department, THU*

- Research on **Robotic Vision and Multimodal Sensors**
- Work in a group of four with a focus on utilizing multimodal sensors(visual & tactile) to increase the success rate of grasping objects for robots.
- Designed and built a robotic hand with both the fingers and suction cup, for which we have applied for a patent. My work is mainly about the processing of visual signals and using Deep Reinforcement Learning to generate a grasping policy for the agent.
- Recently we are focusing on applying active perception to object grasping in complex scenario.

With Prof. Yebin Liu   May 2018 - Present
Undergraduate Researcher   *BBNC Lab, THU*

· Research on **3D Vision and Model Reconstruction**
· Worked with a Ph.D candidate on a detailed geometrical reconstruction of a human body from a single RGB-image.
· Constructed a human model dataset that pairs detailed mesh, synthetic images and skeleton with a corresponding human model and applied Deep Learning to solve the classification problem.
· Current research focus is on motion capture of laboratory mice with a multi-camera system(a long term project). Recently my work is on the 2D joints detection of mice and skeleton reconstruction.

SKILLS

Programming	C/C++, C#, MATLAB, Python
Software & Tools	Latex, Adobe Photoshop, Adobe Premiere
Language	Chinese(Native), English(TOFEL 102)

RELEVANT COURSES

Core Courses	**Other Courses**
Digital Electronics	Calculus & Linear Algebra
Fundamentals of Analog Electronics	Probability and Statistics
Theory of Automatic Control	Signals & System Analysis
Data Structures	Embedded System design & Applications
Digital Image Processing	Computer Principles & Applications
Numerical analysis & Algorithm	Big Data & Machine Intelligence