KEYAN ZHAI

ShanghaiTech University

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EDUCATION

ShanghaiTech University

Sep 2017 - Present

B. Eng. in Computer Science, minor in Business Administration

Grades: Overall GPA 3.34/4 (Third year GPA 3.82/4, Major GPA 3.95/4, Top 10%)

Core courses: Computer Architecture I (A), Signals and Systems (A), Operating System I (A), Artificial Intelligence (A-), Software Development and Validation for Medical Cyber Physical Systems (A), Cryptography (A), Mechanical Design (A+), Mechatronics (A+)

RESEARCH EXPERIENCE

LIMA Lab, ShanghaiTech University

May 2020 - Present

Internship, Supervisor: Prof. Andre Rosendo

- · Designed and built a completely new quadruped robot Slimdog using Solidworks and 3D printing.
- · Implemented Inverse Kinematics (IK) and Raibert's control on the robot.
- · Developed a new optimization algorithm based on Bayesian Optimization (BO) by adjusting the discreteness of the parameters for robot learning. The new optimization algorithm reaches a performance that is 86.7% higher than the basic BO in the Schwefel function test.
- · Planning to apply the new optimization algorithm on the robot for learning how to walk based on the theory of scaffold learning.

MARS Lab, ShanghaiTech University

Jul 2019 - Sep 2019

Summer Intern, Supervisor: Prof. Sören Schwertfeger

· Read some papers and did a survey on Wi-Fi localization.

WORK EXPERIENCE

Cognitive Intelligence group, BSBII

Jul 2019 - Apr 2020

Internship, Supervisor: Dr. Yi Zhou

- · Involved in the development of an online IQ test competition platform iqtest.pub for both human and machine. The platform is used for MAIQ competition on IJCAI-2020.
- · Main contributions: back end development of the log-in/sign-up module, data set management, automatic generation of the RPM problems.

Online Education department, China Telecom

Aug 2018 - Sep 2018

Summer Intern

· Front-end development and video editing with Premiere.

TEACHING EXPERIENCE

Teaching Assistant, CS211 Advanced Computer Architecture

Fall 2020

Instructor: Prof. Chundong Wang

TECHNICAL STRENGTHS

Language Mandarin (native), English (oral and written fluency, TOEFL: 107, GRE: 320+3.5),

Skills Python, C, C++, Matlab, ROS, Solidworks