## Yuan Yang

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EDUCATION	
Rice University, Houston, TX	Sep. 2020 - Present
Master of Electrical and Computer Engineering	
Awards: ECE Future Star Scholarship	
University of Glasgow, Scotland, UK	Sep. 2016 - Jun. 2020
• Bachelor of Engineering in Electronics and Electrical Engineering (Joint degree	e program with UESTC)
University of Electronic Science and Technology of China (UESTC), China	Sep. 2016 - Jun. 2020
School of Glasgow (UESTC-UoG JEP program: 4+0, all courses taught in English, 1	Dual Degree)
Bachelor of Engineering in Communication Engineering	
• Overall GPA: 3.75/4.00 Core GPA: 3.80/4.00	
• Awards: Scholarship for Outstanding Students (20%) 2017-2018	& 2016-2017 & 2018-2019
SELECTED PROJECTS	
Thematic Exploration for a THPH Project Archive Website   Python, BERT	Sep. 2021- Dec. 2021
Collaborator & Sponsor: Dr. Kirsten Ostherr (Medical Futures Lab, Rice University)	
• Generated a word cloud of all projects description as a visualization tool for a "c	click and search" use
• Utilized topic modeling (Gensim based) to discover thematic connections betwee	en projects
• Extracted top-20 keywords in each project's published paper using KeyBERT a	and trained a keyword clustering
model (HDBSCAN) to find closely related project	
Auto-Grader for Free Responses   Python, BERT	Feb. 2021- May. 2021
Sponsor: Dr. Debshila Basu Mallick, OpenStax (an online courseware)	
• Realized the function of grading student answers (text form) for free-response q	uestions as True or False
• Trained a model of siamese network and BERT to compare student answers with	h reference answers
Self-Driving Robot Car Design   Python, C	Mar. 2019- Jun. 2019
Supervisor: Prof. Rami Ghannam (Microelectronics Lab, Glasgow College UESTC)	
• Employed edge detection algorithm to identify a rough, irregular brick road with	h multiple bends via Canny edg
detectorTested different threshold values applicable to different intensity of light	t
• Calculated the effective central value of routes according to the distribution of p	ixel values
• Controlled the car's steady movement to the effective center value with	PID (Proportion, Integral and
Differential) Algorithm	·
SKILLS & FXTRACURRICULARS	

Programming: Python, C/C++, Matlab, LaTeXTools: PyTorch, Tensorflow, BERT, Git, Numpy, Pandas, Nasa-NLUActivities: Volunteer, Conservation and Research Centre for the Giant PandaFeb. 2018 - Mar. 2018Leader of Color Correction and Post-production, Microfilm Competition, UESTCMar. 2017 - May 2017