

# YIWEN GUAN

Email: yiwen.irelia.guan@outlook.com ◊ Homepage: <https://yiwenliebesleid.github.io/YiwenGuan.github.io/>

## EDUCATION

M.S. in Computer Science, Worcester Polytechnic Institute	2019 - 2021
GPA: 4.0/4.0, Member of Upsilon Pi Epsilon	<i>Massachusetts, US</i>
B.E. in Computer Science, University of Science and Technology of China	2015 - 2019
Major GPA: 3.3/4.3	<i>Anhui, China</i>

## SKILLS

Languages	Python, Scala, SQL, Java, C++, HTML
Machine Learning	Keras, Tensorflow, Spark MLlib
Others	Spark, Hadoop, Hive, Linux, MATLAB, LaTeX

## PROJECTS

Facial Points Detection in Videos and Real-time Cams	WPI, Apr-May 2021 <a href="#">GitHub</a>
<ul style="list-style-type: none"><li>Processed video data into frames, deployed a face detector, and trained a MobileNet.</li><li>Deployed the model on real-time cam which achieved a real-time facial points detection demo, which won the only fabulous prize in class.</li></ul>	
Few-shot Learning in Driver Trajectory Data Identification	WPI, Apr 2020 <a href="#">GitHub</a>
<ul style="list-style-type: none"><li>Implemented case study and extracted feature from raw data.</li><li>Designed and trained a Siamese model with LSTM units, and the performance outperformed the baseline LSTM.</li></ul>	
Autonomous Car Simulation on Unity Platform	WPI, Apr-May 2020 <a href="#">GitHub</a>
<ul style="list-style-type: none"><li>Processed the input image data from Unity platform, and separately trained a ResNet and a deep q-learning model which generally reached the goal of self-driving.</li></ul>	
An Image Recognition Method for Plant Diseases Diagnosis	USTC, Jan-Apr 2019 <a href="#">GitHub</a>
<ul style="list-style-type: none"><li>Conducted data augmentation on the collected dataset.</li><li>Designed and trained a shared-bottom multitask tree-CNN model which outperformed the baseline multi-label model.</li></ul>	

## EXPERIENCE

Machine Learning Engineer for User Profiling Kuaishou Co.Ltd	Jul 2021 - present <i>Beijing, China</i>
<ul style="list-style-type: none"><li>Developed the first profession label system in Kuaishou through building up a weakly supervised strategy mining framework. Designed an MTL model with MMoE and cross-stitch structure along with transfer learning ideas, which achieved an overall precision of more than 90%.</li><li>Established and optimized KWAI and Snack gender models by deploying bert-embedding, relationship models, and model ensemble. The recall for female is increased by 13% in Pakistan area.</li></ul>	
Teaching Assistant University of Science and Technology of China	Aug 2018 - Jan 2019 <i>Anhui, China</i>
<ul style="list-style-type: none"><li>Worked as a teaching assistant in undergraduate computer programming course.</li></ul>	

## WORK HISTORY

Machine Learning Engineer, Kuaishou Co.Ltd	Jul 2021 - present
--	--------------------

## HONORS AND AWARDS

• Excellent student bronze award, USTC.	2017
• Third-class CGNPC scholarship, USTC.	2016