

Junru Wu

CONTACT INFORMATION	988 Zhaojiabang Road, Building A, Unit 1101 Shanghai, 200030	+(86)18512100019 wujr1@shanghaitech.edu.cn
RESEARCH INTERESTS	Saliency Detection, Person Re-identification, Computer Vision and Machine Learning	
EDUCATION	Tongji University , Shanghai, China B.S., Electronics and Information Engineering <ul style="list-style-type: none">• GPA: 84/100• Thesis: <i>Pedestrian Detection with Machine Learning</i>• Advisor: Shangzhi Xu, Ph.D	Sept 2012 - July 2016
PUBLICATIONS	Yanyu Xu, Nianyi Li, Junru Wu , Jingyi Yu, and Shenghua Gao. "Beyond Universal Saliency: Personalized Saliency Prediction with Multi-branch CNN" submitted to <i>IEEE Conference on Computer Vision and Pattern Recognition (CVPR)</i> , 2017.	
RESEARCH EXPERIENCE	Research Assistant , ShanghaiTech Univeristy <ul style="list-style-type: none">• Personalized Saliency Prediction with Multi-branch CNN Investigate the heterogeneous gaze patterns of individuals when viewing an identical scene, produces the first database of personalized saliency maps (PSMs), propose to model PSM based on universal saliency map (USM) shared by different participants and adopt a novel deep learning based framework to estimate the discrepancy between PSM and USM. Supervisor: Shenghua Gao, Ph.D & Jingyi Yu, Ph.D	August 2016 - present
	Undergraduate Research Assistant , Tongji Univeristy <ul style="list-style-type: none">• Pedestrian Detection with Machine Learning Use pyramid histogram of oriented gradient (PHOG) as features, support vector machine (SVM) with the histogram intersection kernel (HIK) as a classifier to boost the effectiveness and efficiency of pedestrian detection. Performed comprehensive experiments on INRIA Pedestrian Dataset and compared performance with state-of-the-art methods. Supervisors: Shangzhi Xu, Ph.D	Jan 2016 - July 2016
	Student Innovation Training Program , Tongji Univeristy <ul style="list-style-type: none">• Pedestrian tracking system on aerial platforms Develop a automatic detection and tracking of pedestrians based on drone captured aerial footages, employ background subtraction algorithm based on Gaussian mixture models to detect moving pedestrians and Kalman filter to predict the location in each frame. Supervisors: Yuchuan Du, Ph.D	June 2015 - June 2016
PROFESSIONAL EXPERIENCE	System Engineering Intern , Delphi (China) Technical R&D Center <ul style="list-style-type: none">• Using Altium Designer software to design PCB for the Intergrated Testbench of Body Control Module (BCM) satisfying EMC requirements. Validate the functionality and reliability of Testbench in practical scenery Supervisor: Zhigang Yao, Engineering Group Manager	July 2015 - Sept 2015
AWARDS	<ul style="list-style-type: none">• Student Innovation Training Program, Tongji University, First Prize• Mathematical Contest in Modeling (MCM), Honorable Mention	June 2016 Feb 2016

	<ul style="list-style-type: none"> • China Undergraduate Mathematical Contest in Modeling (CUMCM) Third-class Prize Sept 2015 • Semester Scholarship, TU Darmstadt (DAAD) Dec 2014 • Academic Record Scholarship, Tongji University Sept 2013
SKILLS	<p>Deep learning library</p> <ul style="list-style-type: none"> • Caffe <p>Mathematical and statistical programming</p> <ul style="list-style-type: none"> • Matlab <p>Programming languages</p> <ul style="list-style-type: none"> • C, C++, Python, Shell script <p>EDA Tools</p> <ul style="list-style-type: none"> • Altium Designer, Protel, Multisim
EXCURRICULAR ACTIVITIES	<p>Exchange Student, Technische Universitaet Darmstadt Oct 2014 - Feb 2015</p> <ul style="list-style-type: none"> • Attend Language and Cultural Course at TU Darmstadt • Leader of Tongji University's Group, coordinate group events with Intercultural Team of Tutors (ITT) <p>Student Member, Tongji University Students' Union Sept 2013 - Jan 2015</p> <ul style="list-style-type: none"> • Assist with planning of Students' Union's event includes "Top ten school singers" • Running Official Accounts and Web page for Students' Union
REFERENCES	<p>Shenghua Gao Assistant Professor Phone: +(86)185-2105-2610 School of Information Science and Technology E-mail: gaoshh@shanghaitech.edu.cn ShanghaiTech Univeristy</p> <p>Shangzhi Xu Assistant Professor Phone: +(86)181-4979-0296 College of Electronic and Information Engineering E-mail: xushangzhi@tongji.edu.cn Tongji University</p> <p>Zhigang Yao Systems Engineering Group Manager Phone: +(86)159-0166-8572 Electronics & Safety Division E-mail: zhigang.yao@delphi.com Delphi (China) Technical Research & Development Center Co.,Ltd.</p>