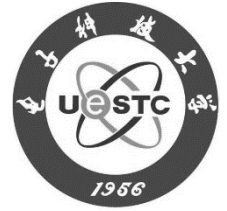


PENGYU YAN

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EDUCATION

University of Electronic Science and Technology of China, UESTC

Sept 2014- Jul 2018

Major: Electronic Science and Technology

GPA: 3.65/4.0

Core-course GPA: 4.0/4.0

TOEFL: 99 (R27 L24 S23 W25)

GRE: V149+Q170+3.0

Major courses: Calculus (82/100); Linear Algebra and Space Analytic (80/100); Signal and Systems (85/100); Advanced Programming Language (86/100); Optoelectronic Image Processing (85/100); Thin Film Technology (91/100); Sensing Technology (97/100); Opto-electronic materials and Devices (90/100); Application and Design of Digital Logic (85/100); Physical Optics (89/100)

Rutgers University, New Jersey, summer Program

July 2015-Aug 2015

3D Printing, Package Engineering

Language program, PALS

RESEARCH

Research Projects (Prof. Ping Zhang)

July 2016-Present

- Graduation Thesis
 - 3D Video Saliency based on Generative Adversarial Networks (GANs)
- Saliency Detection in 3D video based on Graphical Model
 - Upgraded SLIC algorithm and designed a Multi-Scale architecture
 - Calculated the saliency score based on global contrast
 - Exploited transition probability in graphical model to refine the saliency maps
- Infrared Weak Target Detection based on Deep Learning
 - Used Convolutional Neural Network to process the feature of weak target
 - A patent has been accepted in CN Patent office.

Mathematical Competition (selected) (Prof. Mingqi Li)

Oct 2015-Jun 2016

- Optimization Model of Design for Mooring Chain System
 - Analyzed the force situation of Chain and build the equilibrium force equations
 - Used Simulated Annealing algorithm and multi-object optimization to design the chain system
 - Won the 1st prize in CUMCM (national) and published a journal article
- Devices function examination based on Multi-target optimization
 - Defined the quality degree of devices and pre-process the large data of them
 - Ranked each kinds of devices based on Grey Relational Analysis
 - Won the 2nd prize in UESTC MCM

Package Engineering in Rutgers (Prof. Euihark Lee)

July 2015-Aug 2015

- 3D Printing
 - Built 3D models by Solidworks
 - Printed a mini F22 jet model by 3D printer

PUBLICATION & PATENTS

1. P. Zhang*, **P. Yan**, J. Wu. Unsupervised Saliency Detection based on Multi-Scale Segmentation and Refinement. (To be submitted to IEEE Signal Processing Letter).
2. P. Zhang, J. Wang, **P. Yan**, X. Wang, J. Liu. An infrared weak target detection based on CNN. CN Patent office, App. Number: 201710758679.4.
3. P. Zhang, M. Tian, X. Wang, **P. Yan**, J. Wu. Moving Object Detection Based on Infrared and Visible Video Fusion. CN Patent office, App. Number: 201710516316.1.
4. **P. Yan**, C. Fan, F. Sun. Optimization Model of Design for Mooring Chain System. *Tianfu mathematics*, 2017, (23):63-66 (in Chineses).

CONFERENCES

Vision And Learning SEminar 2017 Academic Conference (Valse)	Mar 2017
2016 Chinese Conference on Pattern Recognition, CCPR	Oct 2016

AWARDS

● Scholar

1 st Prize	Contemporary Mathematical Contest in Modeling	Sept 2016
2 nd Prize	2016 UESTC Mathematical Contest in Modeling	Jul 2016
1 ST prize	The Third National Spoken English Competition (NSEC)	Nov 2014
1 st Prize (Top 5%)	“Langchao” Enterprise scholarship (Only granted for two students)	Oct 2017
3 rd Prize (Top 15%)	People’s Scholarship	Dec 2015

● Extra-Curriculum

Excellent Leadership	Minister of Public Relations Department in Student Union	Oct 2017
Excellent Organization	None-native Karaoka Game	Dec 2015
Excellent Individual	Summer Social Practice, UESTC	Oct 2015
Best	Volunteer of Robomaster Competition in 2016	

ACTIVITIES

Freshman Mentor , School of Optoelectronic Information	Sept 2015- Jul 2016
➤ The class I have mentored ranked 1 st in the school	
➤ Promoted a good academic and friendly environment	
Minister of Public Relations Department, School Student Union	Apr 2015- Jul 2016
➤ Managed a group made up by 15 members	
➤ Organized the None-native Karaoke game in our campus	
➤ Win patron of 10,000RMB totally from the company as funding to support activities in school	
Representative of the Party Branch in UESTC	Apr 2015- Jun 2015
➤ Organized three volunteer activities in the rounding community	
Class Monitor	Sept 2014- Jul 2015
➤ 1-year duration	

SKILLS

Programing: Python, C++, HTML

Software: Ubuntu, LaTeX, Caffe, Matlab

Language: English (fluent), Chinese (native speaker)

Instruments: Bamboo Flute instruments (Amateur Level Ten, highest)