PENGYU YAN

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EDUCATION HISTORY

University of Electronic Science and Technology of China, UESTC   *Sept 2014- Jul 2018*

Major: Electronic Science and Technology
GPA: 3.65/4.0 (84.6/100)
Major GPA: 4.0/4.0 (89/100)
TOEFL: 99 (R27 L24 S23 W25)
GRE: V149+Q170+3.5

Rutgers University, New Jersey, summer Program   *July 2015-Aug 2015*

3D Printing, Package Engineering
Language program, PALS

RESEARCH EXPERIENCES

Research Projects (Prof. Ping Zhang)   *July 2016-Present*
- Saliency Detection in 3D video based on Graphical Model
  - Designed a Multi-Scale architecture and SLIC-D algorithm
  - Exploited Graphical Model and Fusion method to optimize the saliency maps
  - Adopted the guided filter to make the saliency map smoother
  - Plan to submit the paper in ICME conference (Draft is completed)
- Infrared Weak Target Detection based on Deep Learning
  - Used Convolutional Neural Network to process the feature of weak target
  - Edge box, region proposal method was adopted to help us recognize and classify target
  - A patent has been submitted in CN Patent office
- Infrared and Visible Image Fusion based on Visual Saliency
  - Contributed the visual saliency detection method
  - Participated in the composing of the paper by LaTeX
  - A paper published in *IJNDES*

Mathematical Competition (selected) (Prof. Mingqi Li)   *Oct 2015-Jun 2016*
- Optimization Model of Design for Mooring Chain System
  - Analyze the force situation of Chain and build the equilibrium force equations
  - Use Simulated Annealing algorithm to solve the complex equations
  - Build multi-objective optimization algorithm to choice best system parts
  - Won the 1st prize in CUMCM (national) and published a journal article
- Devices function examination based on Multi-target optimization
  - Definite the quality degree of devices and pre-process the large data of them
  - Ranking 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

PUBLICATIONS & PATENTS

1. P. Zhang, **P. Yan**, J. Wu. Unsupervised Saliency Detection based on Multi-Scale Architecture and Graphical Model. *ICME*, Nov, 2018 (To Be Submitted to ICME).
2. P. Zhang, J. Wang, **P. Yan**. 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 ATTENDED

Vision And Learning SEminar 2017 (Xia'men) Academic Conference	*Mar 2017*
2016 Chinese Conference on Pattern Recognition, CCPR	*Oct 2016*

AWARDS

➢ **Scholar**

1st Prize	Contemporary Mathematical Contest in Modeling	*Sept 2016*
2nd Prize	2016 UESTC Mathematical Contest in Modeling	*Jul 2016*
1ST prize	The Third National Spoken English Competition (NSEC)	*Nov 2014*
1st Prize (Top 5%)	"Langchao" Enterprise scholarship (Only granted for two students)	Oct 2017
3rd 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*
Excellent Volunteer	Volunteer of Robomaster Competition in 2016	

ACTIVITIES

Freshman Mentor, School of Optoelectronic Information   *Sept 2015- Jul 2016*
➢ The class I have mentored ranked 1st
➢ 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 and won the Best Organization Award
➢ Collected patron of 10,000RMB totally 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*
● One-year term

PROFESSIONAL SKILLS

Programing: Matlab, C++, Python
Software: Vim, Ubuntu, LaTeX, Caffe
Language: English (fluent), Chinese (native speaker)
Instruments: Bamboo Flute instruments (Amateur Level Ten, highest)