Xueying **Wang**

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Education

University of Notre Dame   *South Bend, USA*

PH.D IN COMPUTER SCIENCE   *Aug. 2016 - Present*

- Data Science
- SWE 2016 Grad Community Member Spotlight
- GPA: 3.7

University of the Pacific   *Stockton, USA*

M.S. IN ENGINEERING SCIENCE   *Aug. 2014 - May 2016*

- Computer Science
- GPA: 3.8

Shanghai Normal University   *Shanghai, China*

B.S. IN ENGINEERING   *Sept. 2009 - Jun. 2013*

- Communication Engineering

Skills

Programming	Matlab, Python, C, C++, C#, JAVA, LaTeX
non-Technical	Microsoft Office, Leadership, Project Management, Painting, Calligraphy, Violin
Languages	• Chinese - Native • English - Fluent • German, Spanish - Daily
Certification	• National Professional Talent (PCB design), China • National Professional Electronic Assembly and Debugging Application, Senior Technician, China • National Professional Design and Development of Single Chip Microcomputer Application, Senior Technician, China • Certificate of Arts Grade Examination of China, Grading Committee of China Conservatory, Violin, Grade 7

Presentation

12th Annual Poster Contest   *Notre Dame, USA*

POSTER PRESENTATION   *Feb. 2018*

- Winner of Faculty Choice

Boeing Team Tech Competition, 2015 SWE National Conference   *Nashville, USA*

PRESENTER FOR <UNIVERSITY OF PACIFIC'S CUBESAT PAYLOAD PROJECT>   *Oct. 2015*

- Primary speaker
- Project won second place

Publication

On the Power of the World's Invariants: When Truth Finding Meets Temporal Unstructured Data   *London, UK*

XUEYING WANG, QI LI, MENG JIANG   *2018 KDD*

- In review process

Multifaceted Event Analysis on Cross-Media Network Data   *Los Angeles, USA*

DAHENG WANG, MENG JIANG, XUEYING WANG, NITESH CHAWLA AND PAUL BRUNTS   *2018 HeteroNAM*

- Accepted

Work Experience

Department of Computer Science and Engineering, University of Notre Dame

South Bend, USA

TEACHING ASSISTANT

Aug. 2016 - Present

- Teacher's assistant: Elements of Computing I, Elements of Computing II, Operating System,
- Assist with labs, grade homework, help students answer their questions

School of Engineering and Computer Science, University of the Pacifc

Stockton, USA

TEACHING ASSISTANT

Sep. 2014 - May 2016

- Teacher's assistant: Introduction to Computer Science(C++), Data Structures, Web Programming, Design and Analysis of Algorithm
- Assist with labs, grade homework, help students answer their questions

The Experimental Verification Center, State Grid Electric Power Research Institute

Nanjing, China

TECHNICAL ASSISTANT

Sep. 2013 - June 2014

- Assisted with various certificated experiments, such as GPS clocks, routers, switchers, etc.
- Participated in SPIRENT DAY 2014 4G LTE seminar
- Participated in the research projects of the Wireless Channel and Wireless Ad hoc Network
- Participated in composing the test specifications of the Ethernet, helped translating Chinese version to English version

Summer Intern, NARI Zhiyuan Electrical Company of the State Grid

Nanjing, China

TECHNICAL ASSISTANT

Jul. 2011 - Aug. 2011

- Assisted in the design of the screen for solar energy vehicle charger
- Acquired knowledge on automation control theory, power electronics, C programming

Summer Intern, Baidu-ileho Nanjing Branch Company

Nanjing, China

TECHNICAL ASSISTANT & CUSTOMER SUPPORT

Jul. 2012 - Aug. 2012

- Assisted with the management and editing of Baidu-ileho website
- Collaborated with customers to meet their business website needs

Summer Intern, Zhuoyuan K-12 Education Studio

Nanjing, China

HR SUPERVISOR & CURRICULUM DEVELOPER

Jul. 2014 - Aug. 2014

- Participated in the Curriculum development
- Responsible for all recruiting activities

Academic Experience

Time Constraint Text Mining

South Bend, USA

RESEARCH

Aug. 2017 - Present

- Prepossessing
- Algorithm Design
- Experiments Design

Iris Recognition: Binarized Statistical Image Filter

South Bend, USA

RESEARCH

Dec. 2016 - Aug. 2017

- Test Functions of Kinect
- Programming
- Primary author for final report

Gesture-Based Human Computer Interaction for Biomechanics

Stockton, USA

RESEARCH

Sep. 2015 - Present

- Test Functions of Kinect
- Programming
- Primary author for final report

The Effect of Color on Memory with Virtual Reality Technology

Stockton, USA

INDEPENDENT PROJECT

Sep. 2015 - Present

- Review previous work of the color psychology field
- Proposal and draft authoring
- Create 3 different Unity Environments (cold color, warm color, black & white)
- Related Programming
- Data Analysis and Visualization

Water Treatment, ASCE 2016 Mid-Pacific Conference

INTERNATIONAL COMPETITION

Stockton & Davis, USA
Jan. 2016 - Apr. 2016

- Screening Team Member
- Design and implement the screening system of water treatment system

Lactic Acid Bacteria in Cheese-making, Microbiology of Engineered System

CLASS RESEARCH

Stockton, USA
Sep. 2015 - Dec. 2015

- Literature review about Lactic Acid Bacteria and Cheese-making Technology

CubeSat Camera Payload Project, Society of Women Engineers

2015 TEAM TECH NATIONAL COMPETITION

Stockton & Nashville, USA
Jan. 2015 - Oct. 2015

- Camera group leader, processor group member
- Designed 2 camera stand alone system for test flight, and successfully took pictures from space
- Primary speaker in final presentation
- Team placed second in the competition

How Sense of Presence Affects Learning Repetitive and Physical Tasks

CLASS PROJECT

Stockton, USA
Feb. 2015 - Apr. 2015

- Virtual Reality application
- Virtual World Environment design and create
- Data collection and Visualization
- Final Paper writing and presentation

Water Treatment, ASCE 2015 Mid-Pacific Conference

INTERNATIONAL COMPETITION

Stockton & Davis, USA
Jan. 2015 - Apr. 2015

- Construction Team Member
- Design and implement the construction of water treatment system

Yelp Data Analysis, Data Science

CLASS PROJECT

Stockton, USA
Oct. 2014 - Dec. 2014

- Data collection
- Data Representation / Visualization
- Final Paper writing and presentation

Control 4-Based Smart Home System Design and Implementation, Senior Project

INDEPENDENT PROJECT

Shanghai, China
Mar. 2013 - Jun. 2013

- Lighting, multimedia, security and other modules were realized
- Established connections between various types of wireless communication devices
- Achieved mutual recognition between modules
- Realized software adjustment control, e.g: change scene mode
- Users can use WIFI to communicate with Home control system
- Users can use wireless mobile clients and switches to adjust the home system

Applications of Thresholding in Image Processing

MATLAB-BASED DIGITAL IMAGE PROCESSING AND ANALYSIS

Shanghai, China
Dec. 2012

- Global Thresholding, Adaptive Thresholding, Optimal Thresholding
- Analysis of advantages, disadvantages and applicable situations of these three kinds of thresholding methods

Ultrasonic Ranging System Design

APPLICATION OF MODERN COMMUNICATIONS TECHNOLOGY

Shanghai, China
Oct. 2012

- Ultrasonic ranging system design using AT89C52
- Design, solder and debug single chip microcontroller
- Using 40KHz ultrasonic transmitting and receiving sensors measure distance
- Real-time display the distance information between obstacles and ultrasonic module, in units of cm, 1 digital precision decimal

Frequency System Design

PRINCIPLES AND APPLICATIONS OF EMBEDDED SYSTEM

Shanghai, China

Jun. 2012

- Use ARM2110 [3] timing counter function to complete the input signal frequency counting
- Use 1302 LCD display the counting frequency results
- 0-250 kHz frequency signal can be accurately counted, counting error does not exceed -1 - +1Hz
- When the test distance is less than 10cm or more than 25cm alarm

Mathematical Modeling Competition

NATIONAL COMPETITION

Shanghai, China

Mar. 2011 - Jun. 2011

- Built model with two other teammates
- Report Paper written
- Won third place in Shanghai division
- The length of time of the competition is 3 days

FPGA-based Digital Electronic Clock Design and Implementation

APPLICATION OF DIGITAL INTEGRATED DEVICE

Shanghai, China

Dec. 2011

- Designed a digital electronic clock circuit
- Optional Choices for 24-hour or 12-hour clock, frequency of input pulse is 1Hz during correction
- Correction for hours and minutes
- Reset function, whole point timekeeping function, alarm function

Extracurricular Activity

ND - SWE

PROFESSIONAL DEVELOPMENT CHAIR

South Bend, USA

Mar. 2017 - Present

- Create and organize professional development events
- Edit official Website

ND - Chinese Students and Scholars Association

PUBLICATION CHAIR

South Bend, USA

Aug. 2016 - May. 2017

- Design flyers for every event
- Edit official WeChat Account
- Edit official Website
- Attended embassy meetings as student representative

Pacific - Chinese Students and Scholars Association

STUDENT ADVISOR

Stockton, USA

Aug. 2014 - May. 2016

- Give advice and guide to the association
- Help the chairs and present create and organize events
- Attended embassy meetings as student representative

College Student Union

PRESIDENT ASSISTANT

Shanghai, China

Sep. 2009 - Jun. 2010

- Managed weekly meetings
- Assist president contact with presidents from different departments
- Attended meetings with president in other schools

News and Communication Department, College Student Union

PRESIDENT

Shanghai, China

Sep. 2010 - Jun. 2013

- Responsible for school newspaper publication
- Responsible for school official website update
- Responsible for school social network information update

Society of Ancient Chinese Literature Research

VICE PRESIDENT

Shanghai, China

Sep. 2011 - Jun. 2013

- Presenter of Ancient Chinese Literature Gallery
- Responsible for audience organization
- Responsible for research management

Volunteering

UNDERGRADUATE

| 2009 | **Competition Hall Assistant**, Tianhua Cup First National Electronic Competition | *Shanghai, China* |
| 2010 | **Competition Hall Assistant**, Tianhua Cup Second National Electronic Competition | *Shanghai, China* |

GRADUATE

2014	**Assistant**, Expand your Horizons, UOP-SWE	*Stockton, USA*
2015	**Presenter**, Girl Scouts, UOP-SWE	*Stockton, USA*
2015	**Presenter**, Engineering Awareness Program, SWE-Region A	*Folsom, USA*
2015	**Assistant**, Expand your Horizons, UOP-SWE	*Stockton, USA*
2016	**Assistant**, Saturday Pie, UOP-CCI	*Stockton, USA*
2016	**Assistant**, Dia De Ciencias, UOP-SHPE	*Stockton, USA*
2016	**Assistant**, Pacific MESA Day, UOP-MESA & SHPE	*Stockton, USA*
2016	**Ending line Guider**, Bank of America Chicago Marathon	*Chicago, USA*
2017	**Assistant**, Notre Dame Game Day Food Stand	*South Bend, USA*
2017	**Assistant**, Notre Dame, Women in Science PIE Day Run	*South Bend, USA*
2017	**Orientation Ambassador**, Notre Dame, 2017 Fall Orientation	*South Bend, USA*
2018	**Assistant**, Visit elderly fathers and priests in Holy Cross House	*South Bend, USA*