

✚ OBJECTIVE

Pursue a Ph.D. degree in Computer Science focus on Computer Vision and Image Processing.

✚ EDUCATION

Fudan University, Shanghai, China 2007.09-2011.07

B.S. Candidate, Department of Electrical Engineering

GPA:3.50/4.00 Major GPA: 3.70/4.00 RANK: 13/109

University of California, San Diego 2010.09-2010.12

Exchange Student, Department of Electrical and Computer Engineering

✚ THESIS

Suspicious Object Recognition in Video Stream Based on Visual Attention. Panqu Wang, *Fudan Science Innovation Program Collection*, Vol. 21, 2010

✚ RELEVANT RESEARCH EXPERIENCE

Research Assistant, Real-time Automatic Object Detector Using Saliency 2010.09-Present
Statistical Visual Computing Lab, UCSD Advisor: **Prof. N.Vasconcelos**

- Developed robust biologically-based discriminant visual saliency detector trained by hierarchical EM algorithm, and cropped cleaner positive datasets from images with clustered background automatically.
- Trained and obtained accurate real-time speed limit sign detector using Adaptive-ECBoost cascades, measuring the trade-off between manual labor and detection rate.
- Combined Kalman filter with temporal consistency to track object in video and to reduce false positive rate.

Project Leader, Intelligent Video Surveillance Based on Attention Selection 2009.12-2010.09
Image and Intelligence Lab, Fudan University. Advisor: **Prof. Liming Zhang**

- Developed 4-channel PFT algorithm in Bottom-up attention to calculate saliency map, used Inhibit of Return to obtain ROI sequentially, and applied perfectly in both static images and video streams.
- Proposed a distance-based integrated method in Top-down attention for object recognition and suspicion detection. Made the whole process real-time with recognition rate over 95%.

Project leader, Product Safety Based on Green Chemistry Integration Reaction - Real-time Detection and Control 2009.09-2009.12
Circuit Theory&App. Lab, Fudan University Advisor: **Prof. Qiyong Lu**

- Used PID method in controlling between embedded system LPC3230 and iC-IR.
- Combined and realized cross-disciplinary thought in EE and chemical engineering.

Project leader, Photovoltaic Power Generation Simulator 2008.12-2009.09
Electronics Creative Lab, Fudan University Advisor: **Dr. Jingfei Jiang**

- Utilized PLL and Switching Power and combined SCM with PCB to build the integrated electrical system.
- Used MPPT and FT to keep tracking of SPWM wave, obtained high accuracy and efficiency for output.

✚ OTHER ACADEMIC EXPERIENCE

<i>Organizer,</i>	Computer Vision Doctoral Forum, Fudan University, Shanghai.	2009.11
<i>Presenter,</i>	Visual Attention Modeling, a Frequency Approach, Fudan University.	2010.05
<i>Invited Speaker,</i>	Autonomous Mental Development in Robot(Prof. John Weng, MSU)	2010.06
<i>Participant,</i>	Neuroscience 2010 Annual Meeting, San Diego, CA	2010.11

✚ AWARDS AND HONORS

- *National People's Scholarship, 2nd prize,(2 times)* 2008-2010
- *Excellent Students, School of Information Science and Technology(Top 1%)* 2009
- *Outstanding Participant, TI- National Electronic Design Contest.* 2009
- *Distinguished dormitory leader for innovation, Fudan University(Top 1%)* 2008-2009
- *Excellent academic performance scholarship , Fudan University.* 2007-2008

✚ ACTIVITIES

- Deputy Minister, Science Innovation Contest Center, Fudan University.* 2007-2009
- Charged of science innovation competitions around Fudan University. Organized over 50 Project Defense Meetings, helped more than 200 applicants obtain funding over \$65,000.
 - Held Lab Open Day and workshops weekly around campus. Regularly invited famous professors such as **John Weng** to give academic lectures for ECE students in Fudan University.

- Teacher & Participant, TECC International Cultural Exchange Program* 2009.07
- Experienced cultural exchange in Chinese and American college students through a 1-month study and discussion based program. Lead volunteer teaching for underprivileged migrant children in Shanghai.

- Excellent Volunteer, Shanghai EXPO 2010* 2010.05
- Charged with the task of for ticket service. Communicated with people all over the world. Developed self as a strong team player. Selected as Volunteer Star.

✚ SKILLS

English:

GRE General Test: Verbal:630(91%) Quantitative: 800(94%) Analytical Writing:3.5

TOEFL: Total:103(Reading:29 Listening:26 Speaking:20 Writing:28)

Programming:

C/C++ (Windows&Linux), Matlab, HTML, VHDL, Assembly, SQL.

✚ CONTACT

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