

# WENTIAN ZHOU

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1335 Perry Ave., Morgantown, WV 26505

## OBJECTIVE

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Seeking full-time position in the field of image/video processing and machine learning.

## EDUCATION

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**PhD, Electrical Engineering** Expected May 2017  
*West Virginia University, Morgantown, WV*

- Overall GPA: 4.0
- Related Course Work: Advanced Image Processing, Digital Video Processing, Pattern Recognition, Computational Photography, Coding Theory, Detection/Estimation Theory, Wireless Communication System

**Bachelor of Science, Electrical Engineering** December 2011  
*West Virginia University, Morgantown, WV*

- Overall GPA: 3.876

## RESEARCH EXPERIENCE

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**Graduate Research Assistant** Fall 2013 - Present  
*Video and Image Processing (VIP) Lab, West Virginia University*

- Currently researching on applying neural network learning method to low-level vision tasks.
- Researching and developing unsupervised clustering algorithm with ensembles
- Implement different Image and Video up-scaling algorithms
- Research and contribute to the Depth Map upsampling problem using Low-rank method
- Implement State-of-Art Video stabilization algorithm

**Graduate Research Assistant** Spring 2012 - Spring 2013  
*Wireless Communication Research Lab (WCRL), West Virginia University*

- Researched Cooperative Wireless Communications
- Analyzed the outage probability of Multiple Relay Networks with Supplementary Non-Broadcast Links

**Undergraduate Research Assistant** Summer 2010  
*West Virginia University Honors College, West Virginia University*

- Assisted in designing and conducting experiments on power consumption and propagation of acoustic system for Wireless Sensor Network
- Designed circuits for ultrasonic communications

## PROJECT EXPERIENCE

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**Graduate Assistant** 2011, 2013  
*WVU Solar Decathlon, U.S.Department of Energy*

- Co-founded WVU's inaugural Solar Decathlon team
- Solicited and established sponsor relationships
- Prepared and submitted Business Plan and response to Request for Proposal (RFP)
- Coordinated and delegated construction and logistics tasks

- Supervised team of 30 interdisciplinary student workers

## TECHNICAL STRENGTHS

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**Programming Language**     Matlab, Python, Tensorflow, Latex, C++, Java

## ACTIVITY

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**Tutor** Fall 2009 - Spring 2010

*Academic Resource Center, West Virginia University*

- Assisted students in developing problem-solving skills
- Provided tutorial and academic support services

## PUBLICATION

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### Journal Article

- D. Reynolds, Wentian Zhou and R. Hussmann, "Outage Probability for Multiple Relay Networks with Supplementary Non-Boardcast Links", *Communication Letters, IEEE*, vol. 17, no. 11, pp2048-2051, November 2013

### Conference Paper

- Presentation, "Image Assisted Upsampling of Depth Map via Nonlocal Similarity", *Signals, Systems and Computers, 2014 Asilomar Conference*, Pacific Grove, California, Nov, 2014
- Submitted, "Ensemble of Clustering Ensembles with Quality Management", *ICPR*, 2016

## PROFESSIONAL AFFILIATION

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Member of IEEE-ETA KAPPA NU

Student Member of IEEE

## CERTIFICATES

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Engineer in Training WV EI #9545

OSHA 30-Hour Construction #15-601063618

## HONORS

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Dean's list Spring 2009, Fall 2010

President's list Fall 2009, Spring 2010