

## Jia Wang

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### Education

- **University of Southern California**  
*Ph.D Environmental Engineering* 2017 Aug. - 2018 May.
- **University of Southern California**  
*M.Sc. Chemical Engineering* 2015 Jan. - 2016 Dec.
  - Graduate GPA: 3.58/4.00 (Top 5%)
- **Shanghai University of Sci & Tech**  
*B.Sc. Food Science and safety* 2010 Sep. - 2014 Jun.
  - Undergraduate GPA: 3.70/4.00 (Top 2%)
  - Graduated with Outstanding graduation thesis and Outstanding graduates of Shanghai

### Academic Experience

- **Wastewater Treatment and Ecological Investigation** University of Southern California  
*Graduate Student* 2016 Aug.- 2018 May.
  - NSF GOALI project “Advancing Decentralized Anaerobic Membrane Bioreactor Treatment of Food Waste”
  - USDA/NIFA project “Mitigating Human Health Risks and Enhancing Water Sustainability:Evaluating Antibiotic Resistance in Anaerobic Wastewater Treatment”
- **Capillary Electrophoresis with High Sensitivity of Chemiluminescence** Shanxi Normal University  
*Visiting Student* 2012 May.- 2012 Sep.
  - The combination of the high separation ability of capillary electrophoresis with high sensitivity of chemiluminescence were used to the analysis of compounds in complex matrix
- **Quantum Dots** Shanxi Normal University & Shanghai University for Sci. & Tech.  
*Undergraduate Student* 2012 Sep.- 2013 Sep.
  - Quantum dot fluorescent sensors detect hymexazol residues
  - The synthesis of biocompatible quantum dots and Listeria monocytogenes living tracer study
- **Others** Shanghai University for Sci. & Tech.  
*Undergraduate Student* 2012 Jan.- 2014 May.
  - Formulated a HACCP system for Shanghai Sanxiang Food Company and put into use
  - Detection of contamination of five main food borne pathogens and distribution probability assessment in commercial raw chicken
  - Study on interaction between three different Flavonoids and Tyrosinase
  - Comparison of Immuno-capture PCR and traditional direct PCR in detecting Listeria monocytogenes

## Publications & Achievements

- ISME 2017 Poster: Two-phase (acid/methane) improves energy recovery from food waste by anaerobic membrane bioreactor
- Amha, Y., J. Wang, K. Samy, A. Barge, M. Corbett, and A.L. Smith, 2017. Performance and microbial ecology of bench- and full-scale anaerobic membrane bioreactor treatment of food waste. 15th World Congress on Anaerobic Digestion, October 18-20, Beijing, China.
- Wang J., Han. S.Q. Capillary Electrophoresis Chemiluminescence for the Analysis of Flavonoids in Pharmaceuticals and Human Plasma. Chromatographia, 2013, 76 (11-12): 715–718.
- Wang J. A simple fluorescence quenching method for hymexazol determination using glutathione-capped CdTe quantum dots. Journal of Shanxi Normal University- Natural Science Edition, 2013, 27(3), 60–63.
- Wang J. Political and Economic Significance of the Entry-Exit Inspection and Quarantine of Animals and Plants. Journal of Shanxi Normal University-Social Science Edition Journal (Special), 2013, 40, 25–27.
- Pu.C.J, Zhang.H.Y etc. Detection of Contamination of Five Main Foodborne Pathogens and Distribution Probability Assessment in Commercial Raw Chicken. Food Science,2015, 36(10).

## Awards, Grants & Honors

Second prize of 2016 Chevron Engineering Week Competition . . . . .	2016
Outstanding graduation thesis of Shanghai . . . . .	2014
Outstanding graduates of Shanghai . . . . .	2014
The special scholarship of university . . . . .	2013
Excellent student of university . . . . .	2013
Second prize of university scholarship for academic excellence . . . . .	2013
First prize of Shanghai Weichuang Funds Projects . . . . .	2013
First prize of USST scholarship for academic excellence . . . . .	2011,2012&2013
Second prize of University poem competition . . . . .	2012
Second prize in university resume-design competition . . . . .	2012
Second prize of USST scholarship for academic excellence . . . . .	2010
Third place in Shanghai Northeast billiards competition . . . . .	2010

## Skills

- Program and Markup Language: Python,  $\text{\LaTeX}$ , MATLAB, HTML.
- VMD(Visual Molecular Dynamics)

## Social Activities - Recent 2 years

- Volunteer membership for Special Olympic Games
- CCO of Harmmy cosmic & animation club