Jia Wang |

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Education

- **Shanghai University of Sci & Tech**
  B.Sc. Food Science and safety *2010 Sep. - 2014 Jun.*
  - Undergraduate GPA: 3.70/4.0 (98%)
  - Graduated with Outstanding graduation thesis and Outstanding graduates of Shanghai
- **University of Southern California**
  M.Sc. Chemical Engineering *2015 Jan. - 2016 Dec.*
  - Graduate GPA: 3.58/4.00
  - Graduated with 95% GPA
- **University of Southern California**
  Ph.D Environmental Engineering *2017 Aug. - 2018 May.*

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 chemiluminescnece** Shanxi Normal University
  Visiting Student *2012 May.- 2012 Sep.*
  - The combination of the high separation ability of capillary electrophoresis with high sensitivity of chemiluminescnece 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.*
  - 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
  - Formulate a HACCP project for Shanghai Sanxiang Food Company

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 & Honours

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, Latex, MATLAB