

# Environmental Engineering Candidate Seminar



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Dr. Su graduated from Tongji University (China) with a Ph.D. in Environmental Engineering in 2015. Thereafter he worked as a postdoc in Tongji University and in 2016 he obtained a Chinese PE certificate. In 2017, he came to the US for postdoctoral research first in University of California Riverside and then in University of California Los Angeles (UCLA). In the spring quarters of 2018 and 2019, he was also a principal lecturer at the department of Civil and Environmental Engineering (CEE), UCLA. Currently, he is a Research and Development Engineer at CEE department. Heretofore, he has published over 25 peer-reviewed papers, completed two invited book chapters, made 11 presentations at academic conferences and top universities, and been granted 1 patent.

## Research Seminar

Thursday, February 3, 2022

11:00 AM - 12:00 PM

UWRL 301

### *Application of Nanotechnology in Sustainable Agriculture*

Crop disease control is crucial for the sustainable development of agriculture. Recent advances in nanotechnology offer a promising solution to this pressing problem. However, the efficacy of nanoparticle (NP) delivery methods has not been fully explored, and knowledge regarding the fate and mobility of NPs within trees is still largely unknown. In this talk, I will cover the effectiveness of NPs in inhibiting pathogens growth, the efficiency of different NP delivery methods, and the mobility and distribution of NPs with different surface coatings (citrate (Ct), polyvinylpyrrolidone (PVP), and gum Arabic (GA)) within citrus trees.

## Teaching Seminar

Thursday, February 3, 2022

1:30 PM - 2:30 PM

UWRL 301

### *A Path to the Future of Water Supply Increasing Utah's resilience to climate change*

Increasing Utah's resilience to climate change. Climate change has imposed a significant impact on water supply system all over the world. Meeting future water demand will require serious consideration of indirect/direct potable reuse (IPR/DPR) for many water agencies. As we get closer to the point where regulations are finalized and serious investments are planned, there is a need to ask: Are we ready? In this class, I will talk about impact of climate change on water supply system, drinking water treatment processes associated with water reuse. In particular, I will focus on the application of membrane technology.

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