Ruoyu Wang

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EDUCATION

Master of Environmental Science and Management (Expected June 2021)

Bren School of Environmental Science & Management - University of California, Santa Barbara (UCSB)

Specialization: Pollution Prevention and Remediation | Focus: Environmental Data Science

Highlighted Coursework: Earth System Science, Environmental Biogeochemistry, Ecology of Managed Ecosystems, Environmental Law and Policy, Business and the Environment, Environmental Politics and Policy, Economics of Environmental Management

Bachelor of Engineering in Environmental Science (July 2019)

Northwest Agriculture and Forestry University (NWAFU), Yangling, Shaanxi, China

Honors/Awards: Ten top exemplar in University; Wang Tongchuan Scholarship for College of Natural Resources and Environment

Leadership/Involvement: Minister of Press in College of Natural Resources and Environment; Chef Reporter at Youth League Committee in NWAFU

RESEARCH EXPERIENCE

Internship on Environmental Monitoring and Assessment | Northwest A&F University (12/2017)

- Investigated the distribution of Yangling District's 5 main rivers, 3 surface wells, and 2 irrigation channels.
- Analyzed 67 samples' 12 water quality indicators against national standards and wrote a 20+ pages proposal on how to better prevent the water contamination.

Comprehensive Practice on Solid Waste Treatment and Disposal | Northwest A&F University (06/2018)

- Designed and composted with vegetable rubbish and chicken feces, monitored its 4 indicators daily and 12 other indicators regularly.
- Investigated distribution and composition of 300+ trash bins in the 1.6 km^2 campus of NWAFU, calculated daily waste, observed current trash transport path and designed a better one.

Internship on Environmental chemistry | Northwest A&F University (07/2018)

- Researched on the features and possible mechanism of ammonium removal by bamboo biochar in the presence of Humic Acid.
- Led a team with 4 members, designed the technological innovation project, and wrote a 15+ pages thesis.

Undergraduate Dissertation | Northwest A&F University (10/2018-05/2019)

- Studied the effects of exogenous selenium (Se) and Chinese cooking methods on content and bioaccessibility of selenium in *pleurotus eryngii*.
- Combined quantitative indicators total Se and Se speciation with Se bioaccessibility, assessed the health risk of the Se-enriched mushroom in this research treatment.

ADDITIONAL SKILLS

Computer: Microsoft Word, Excel, and PowerPoint, Auto CAD, ArcGIS

Typesetting: Adobe InDesign, LaTeX

Statistics: GraphPad Prism; R

Language: Fluent in English, Mandarin; intermediate Japanese