CURRICULUM VITAE

Shi Wang
M.Sc in Biotechnology

3206 Jetty dr, Richmond, CA 94804
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Education

Msc, Biotechnology; Wageningen University, NL **2010 – 2012**
GPA 8.2/10

Bsc, Southwest University for Nationalities, R.P China **2005 – 2009**
GPA 3.5/4

Research Experience

Sr. Research Associate **2014 – present**

Lawrence Berkeley National Laboratory, Ecology Department, Berkeley, CA

- Microbes-to-Biomes explores an reveal the interaction of microbes, soil plant and metazoan
- Microbial evolution of Arctic ecosystems in a changing climate DOE-NGEE (Next generation ecosystem experiments-Arctic)
- Integrative mapping of soil heterogeneity at the microbial scale
- Earth Microbiom Project
- Development an application of molecular techniques for analysis soil biome and human biome

Research Associate **2012 – 2014**

Lawrence Berkeley National Laboratory, Ecology Department, Berkeley, CA

- Carbon sequestration in soils via use of black pyrogenic carbon
- Effect of wildfires on soil CO_2 emission, carbon stabilization and microbial processes in the Northern boreal forests

IGEM Competition Member **2011**

Molecular Ecology, Wageningen University, NL

- Synchronized Oscillatory System project is to produce periodic oscillatory protein expression in *E. coli*, synchronized across a population, using the quorum sensing machinery from *Vibrio fischerii*.
- Fungal Track'n Trace aims to implement an artificial intercellular communication system in the hyphal fungus *Aspergillus nidulans*.

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Junior Lab Assistant **2010 – 2012**

Microbiology department, Molecular Ecology, Wageningen University, NL

- Cultivation and characterization of human gastrointestinal anaerobic bacteria
- Optimization of sporulation of *Clostridium CRIB*

Applicable skills

Microbiology Techniques

Aerobic and anaerobic bacteria isolation and cultivation, Microbial culture medium formulation and optimization, Aerobic and anaerobic metabolic pathway analysis, Anaerobic chambers maintenance, Microscopic observation and imaging

Molecular Biology Techniques

Protein/DNA/RNA extraction, DNA/RNA purification and quantification using BioAnalyzer/Qubit/Nanodrop, PCR, Quantitative real-time PCR, 16s rRNA gene sequencing, Next Generation Illumina sequencing preparation for metagenomics/metatranscriptomics analysis, Enzymatic assays development, Gene cloning and transfection, West blot, DNA digestion and ligation, Plasmid vector construction, Southern blot, *epMotion* DNA isolation robot operation.

Honors and Awards

- Excellent Graduate, SWUN, 2009
- Excellent Student Union Leader, SWUN, 2008
- Excellent Student Scholarship for Outstanding Academic Performance, SWUN, 2007
- Excellent Student Union Leader, SWUN, 2007
- Excellent Student Scholarship for Outstanding Academic Performance, SWUN, 2006