

ROBERT SMITH

Project Scientist/Co-ordinator

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Detail-oriented multidisciplinary spatial data analyst with ten years expertise in technical leadership, quantitative and geo spatial data mining, analysis and visualization.

EXPERIENCE

Project Scientist/Co-ordinator

Alliance Source Testing - 2014 - 2019

- Designing, testing and optimizing olfactometers, wind tunnels, cage assays, greenhouse experiments, and semi-field and field settings.
- Measure insect responses to attractants or repellents, screening various compounds derived from plant sources.
- Development and optimization are often required in an insect rearing facility.
- Training students, managing the lab, collaborating with colleagues in other groups for writing research grants.
- Preparing presentations and manuscripts for scientific publications are among other tasks of mine.
- Establishing a mosquito colony, bioassays, olfactometry, GC/MS, electroantennography, data analysis.
- Worked with cross-functional teams to increase process uptime, to determine materials and product quality issues.

Project Scientist

University Of California - Davis - 2011 - 2014

- Conduct collaborative projects on integrated methyl bromide alternative fumigants focusing on reduce fumigant emission with agricultural practices (i.e., chemical fertilization, organic amendment, plastic mulching, and irrigation).
- Develop soil fumigation method, evaluate fumigant distribution in soil profile, and determine environmental fate of fumigants.
- Improve pest control efficacy (weeds, nematodes, and pathogens) with pesticide and non-chemical alternatives.
- Sustain high-value crop production (strawberry, grape, almond, vegetable, nurseries, etc.) Optimize water and nutrient management to cope with drought issues, nitrate leaching, and N₂O and NH₃ emission loss.
- Work closely with crop industries, regulation agencies, and scientists and faculty at the USDA-ARS and University of California systems.
- Conduct extension activities, supervise technicians and students, and apply for grants.
- Optimize agricultural practices including plastic mulching, irrigation,

hydroponics, biochar application..

EDUCATION

- Dr. in Science in Chemical Ecology - 2001(University of Bayreuth - Bayreuth)

SKILLS

Environmental Samplings, Trapping & Population Monitoring.