



**Sustainable
Agricultural
Systems &
Engineering
Lab**



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2 PostDoc positions – Agroecology / Environmental Monitoring Technology

The Sustainable Development Goals aim to chart the path towards a better and sustainable future for all by 2030. In agriculture, diversified systems can help to meet the increasing global food demand, improve food security of small-scale farmers, and protect the environment (Wanger et al. 2020 NatureEcoEvo). An important research need is to understand the tradeoffs of diversified agricultural systems between yields and different ecosystem services (see Tamburini et al. 2020 SciAdv.). In addition, experiments and effective monitoring approaches are needed to understand spatial variation of the diversification benefits in agricultural systems.

The Sustainable Agricultural Systems & Engineering Lab (SASE; <https://www.tomcwanger.com>) at Westlake University has initiated the China Rice Network (CRN; www.chinaricenetwork.org) and the Global Agroforestry Network (GAN; www.globalagroforestrynetwork.org) to understand diversification effects on rice, cocoa, coffee, and rubber production systems in China and globally. We also use computer vision and our new monitoring devices to understand pollinator responses to pollutant exposure.

We are looking for two PostDocs to develop and implement new project ideas in the CRN and GAN. This position offers a great opportunity for the right candidate to work with our established collaborations in China and globally, and to be proactive in implementing your own ideas in line with our lab's goals. The position will be based in the SASE lab in Hangzhou, China and requires frequent interaction in Chinese and English with researchers at different career stages, farmers, and shop vendors. You will be required to work independently and coordinate students and Research Assistants working on different projects. This position is ideal for someone with a recent PhD degree with project management skills, and strong analytical and writing abilities.

Job Responsibilities in a nutshell

- Develop new projects in the CRN and GAN
- Coordinate existing and new field and lab experiments
- Communicate effectively with people from different backgrounds based on international experience
- Using R and Python proficiently to analyze data
- Mentor PhD students working on the above projects
- Publish multiple international journal articles

- Be a pro-active member of the SASE lab
- Other tasks as assigned

Job Requirements

We are looking for highly motivated PostDocs with

1. a PhD in (agro)ecology or a technical field from international institutions with strong analytical skills, and willing to substantially broaden their scope of work.
2. a strong interest to integrate computer vision and auditory systems in environmental research and contribute to new technology development in this area.
3. skills in the following areas: diversification of cropping systems, (Bayesian) data analysis (preferably in R or Python), field experiment design.
4. project management and excellent time management skills
5. publications in international journals.
6. very good language skills in Chinese and English are essential.
7. integrate well in an interdisciplinary and international group.

Compensation and Benefits

We offer competitive benefits and a diverse and international research environment. **Starting date: 1st of April 2022** or as soon as possible. The planned duration of the position is three years and can be extended.

How to apply

Please submit your application documents in English to **Prof. Thomas Cherico Wanger** (tomcwanger@westlake.edu.cn).

Application documents must include a cover letter, a short summary of research interests, CV, complete certificates, and the names (with email addresses) of two potential referees. Shortlisted candidates will be invited for interviews in mid March 2021. The position remains open until filled.

For questions please contact **Prof. Thomas Cherico Wanger** (tomcwanger@westlake.edu.cn).