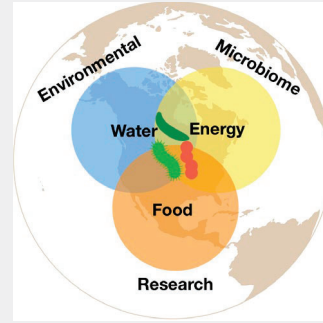


SMILE HEART: Environmental Controls on Antibiotic Resistance



State University of New York College of
Environmental Science and Forestry



www.environmentresearch.net

Dr. Yaqi You — Environmental Microbiome Research Lab

Study how antibiotic resistance genes transmit within and across ecosystems. Develop approaches to curb their movement in agricultural soils by controlling horizontal gene transfer (HGT). The team applies systems biology methods to reveal chemical, biological, and ecological controls of HGT.

What You'll Learn / Do

- Learn techniques such as flow cytometry and next-generation sequencing for bacterial population analysis
- Use mathematical modeling to study gene transfer dynamics
- Investigate chemical, biological, and ecological controls of HGT in soils

Tentative Time / Schedule

Week of July 13; Monday–Friday, 9:00 AM–4:30 PM.

Students: 1-2

Ideal CTE Programs

Biotechnology
Data Analytics

Questions

Reach out to Dan Collins
(dbcollin@esf.edu) or (315) 470-6553

To Apply for this Internship, scan below:

