

Xin You

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Project: A01
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Research Interests

- The suitability of (marine) phages as biological tracers in porous media
- Factors influencing phage transport
- The mycosphere as a hotspot for phage-bacteria interactions

Current Project

PhD thesis, working title: “Phage as vectors and indicators for biological information: Phage transport and phage-mycosphere interactions”

Bacteriophages (phages) are viruses that infect specific host bacteria. They are the most abundant biological entities on the planet and influence their hosts’ mortality, evolution, and the biogeochemical cycling. Despite their relevance, little is yet known about phages as vectors and indicators of biological information in terrestrial habitats and the Earth’s critical zone (CZ). Following the main findings during AquaDiva I that (marine) phages are potential tracers for hydrological flows in the CZ and their interactions with fungal mycelia can influence their transport, the objectives of this project are to elucidate factors that influence the transport of phages in the Hainich CZ, the consequence of transport on microbial community, and the effect of fungal mycelia on phage transport and induction.

Curriculum Vitae

11/2017 – now	PhD researcher at Department of Environmental Microbiology Helmholtz Centre for Environmental Research GmbH – UFZ, Leipzig
10/2013 – 10/2017	Master of Science at Faculty of Agricultural Sciences University of Hohenheim, Stuttgart
09/2009 – 07/2013	Bachelor of Engineering at College of Food Science and Nutritional Engineering China Agricultural University, Beijing