Upcoming Candidate Seminar

Development and Application of Modern Crop Modeling Framework

Crop models mirror our knowledge of crops in computer programs, and crop modeling inevitably inherits common issues of software engineering. Cropbox (https://cropbox.dev) is a modern crop modeling framework based on a declarative domain-specific language to mitigate such technical debts. In this talk, I will discuss how the new framework leads to a more approachable crop modeling that lets modelers focus on modeling and blurs the line between model developer and user. I will also envision how this approach can be scaled and extended for the new application of modeling cropping systems.

About Dr. Kyungdahm Yun
Kyungdahm Yun is a postdoctoral scholar at the University of Washington. His research with Plant Ecophysiology and Modeling Lab lies between Agriculture and Software Engineering, where he builds crop models for simulating how plants grow and respond to environments. He earned his BS in Computer Science from Yonsei University, MS in Information and Communication from Gwangju Institute of Science and Technology in Korea, and Ph.D. in Environmental and Forest Science from the University of Washington.