

Christopher K. Black

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EDUCATION	Reed College, B.A. Biology 2008. University of Illinois, Ph.D. Plant Biology expected 2013.
INTERESTS	Ecology, microbiology, and biogeochemistry of below-ground plant-environment interactions. Special interests in commensal and mutualistic trophic exchanges, responses to abiotic conditions, and nutrient storage.
PUBLICATIONS AND PRESENTATIONS	<ul style="list-style-type: none">• Black, C.K., Davis, S.C., Bernacchi, C.J., DeLucia E.H. <i>Response of soil respiration to ecosystem warming and elevated atmospheric carbon dioxide</i>. Poster at Ecological Society of America annual meeting 2010, Pittsburgh, PA• Black, C. 2008. <i>Associative Nitrogen Fixation Ability Does Not Predict Symbiotic Nodulation Ability in Burkholderia tropica</i>. Reed College thesis.• Lin, R., Teng, Y., Park, H.J., Ding, L., Black, C., Fang, P., Wang, H. 2008. Discrete and Essential Roles of the Multiple Domains of Arabidopsis FHY3 in Mediating Phytochrome A Signal Transduction. <i>Plant Physiology</i> 148: 981-992.
RESEARCH PROJECTS	<ul style="list-style-type: none">• Model parameterization for predicting soil carbon dynamics under altered future climate conditions. University of Illinois, 2010-present.• Isotopic partitioning of root and microbe components of soil respiration. University of Illinois, 2010-present.• Soil respiration, microbial genomics, and carbon cycling of an experimentally heated corn-soy ecosystem. University of Illinois, 2009-present.• Root distribution, below-ground biomass, and water usage of potential bio-fuels crops. University of Illinois, 2009-present.• Host range of N-fixing microbes. Undergraduate thesis work, Reed College, 2007-2008.• Genetics of light signaling in Arabidopsis. NSF-REU internship, Boyce Thompson Institute/Cornell, 2007.
PROFESSIONAL MEMBERSHIPS	Ecological Society of America. 2010-present.
OTHER ACTIVITIES	University of Illinois Bio-Outreach. Introducing high school students to university biology research. 2010-present.
REFERENCES	Dr. Evan H. DeLucia, doctoral advisor. delucia@life.uiuc.edu, (217) 333-6177 Dr. Carl J. Bernacchi. bernacch@uiuc.edu, (217) 333-8048 Dr. Andrew Leakey. leakey@uiuc.edu, (217) 244-0302