



PINEMAP

Team Members
May 2013

Principal Investigators

Karen Abt

Aim 4
Research Economist

USDA Forest Service Southern Research Station

Research Interests: Nonindustrial private forests timber management, regional economic analysis, and natural resource accounting

kabt@fs.fed.us



Robert Abt

Aim 4
Professor of Forestry
Co-Director, Southern Forest Resource Assessment Consortium

Department of Forestry & Environmental Resources
North Carolina State University

Research Interests: Regional timber supply modeling; economics of agroforestry; econometric applications in forestry.

bob_abt@ncsu.edu



Damian C. Adams

Aim 4 (Leader)
Assistant Professor, Natural Resource Economics & Policy

School of Forest Resources & Conservation
University of Florida

Research Interests: Bioeconomic modeling; policy and law analysis; invasive species, water resources, and carbon offsets.

dcadams@ufl.edu



Gwendolyn Boyd

Aim 6
Associate Professor of Forestry

Department of Agriculture
Alcorn State University

Research Interests: Chemistry of loblolly pine and study of southern pine beetle infestations.

gboyd@alcorn.edu



Ryan Boyles

Aim 2, Aim 6
Director & State Climatologist

State Climate Office of North Carolina
North Carolina State University

Research Interests: Climate services; local and regional climatology; weather and climate applications; observational sensors and systems; data management.

ryan_boyles@ncsu.edu



Principal Investigators

Harold Burkhart

Aim 2, Aim 6

University Distinguished Professor

Director, Forest Modeling Research Cooperative

Department of Forest Resources & Environmental Conservation

Virginia Tech

Research Interests: Modeling forest stand dynamics, growth and yield; applying quantitative analysis techniques to forestry problems.

burkhart@vt.edu



Tom Byram

Aim 3 (Leader), Aim 6

Assistant Professor

Director, Western Gulf Forest Tree Improvement Program

Department of Ecosystem Science & Management

Texas A&M University

Research Interests: Forest genetics and forest tree improvement.

t-byram@tamu.edu



Douglas Carter

Aim 4

Professor, Forest Economics & Management

School of Forest Resources & Conservation

University of Florida

Research Interests: Forest economics and management; timber supply and timber markets; economics of forest management alternatives; tropical forest economics.

drcart@ufl.edu



Wendell Cropper

Aim 2

Associate Professor, Biological Process Modeling

School of Forest Resources & Conservation

University of Florida

Research Interests: Biological process modeling; computer simulation models of populations and physiological and ecosystem processes for southern pines and other Florida ecosystems.

wcropper@ufl.edu



John Davis

Aim 3, Aim 6

Professor of Forest Biotechnology & Molecular Biology

Co-Director, Forest Biology Research Cooperative

School of Forest Resources & Conservation

University of Florida

Research Interests: Forest biotechnology and molecular biology; tree functional genomics to understand how genes function to create phenotypes or traits.

jmdavis@ufl.edu



Principal Investigators

Jean-Christophe (J.C.) Domec

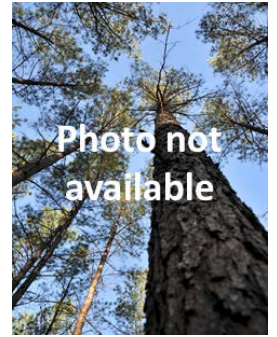
Aim 1, Aim 2

Research Associate Professor

Department of Forestry & Environmental Resources
North Carolina State University

Research Interests: Ecophysiology; plant water relations; forest ecology and wood science.

jdomec@ncsu.edu



Francisco Escobedo

Aim 4, Aim 2

Associate Professor, Urban Forestry

School of Forest Resources & Conservation
University of Florida

Research Interests: Urban and community forest management and planning, the ecosystem services of urban and urbanizing forests, and the effects of urbanization and other disturbances such as hurricanes and invasive woody plants on forests and human settlements.

fescobed@ufl.edu



Thomas Fox

Aim 1 (Leader), Aim 2, Aim 4, Aim 6

Mitigation Integration Leader

Professor of Forest Soils & Silviculture

Co-Director, Forest Productivity Cooperative

Department of Forest Resources & Environmental Conservation
Virginia Tech

Research Interests: Forest fertilization and tree nutrition; silviculture of Appalachian hardwoods; intensive silviculture of southern pine plantations; forest soils; rhizosphere chemistry; environmental sustainability of intensive forest management; ecophysiology of managed forest stands.

trfox@vt.edu



Jianbang Gan

Aim 4 (Leader)

Professor, Forest Management and Economics

Department of Ecosystem Science & Management
Texas A&M University

Research Interests: Economics of bioenergy and natural and human disturbances including climate change, wildfire, pest infestation, and invasion of alien species as related to forest resource management/conservation; forest product trade and socially or economically disadvantaged forestland owners.

j-gan@tamu.edu



Principal Investigators

Donald Grebner

Aim 4
Professor

Department of Forestry
Mississippi State University

Research Interests: Forest economics; international forestry; forest management; biomass and bioenergy; carbon sequestration; forest protection.

dgrebner@cfr.msstate.edu



Sabine Grunwald

Aim 1, Aim 2
Professor, GIS & Land Resources

Soil & Water Science Department
University of Florida

Research Interests: Soil-landscape modeling; pedometrics; digital soil mapping; envirometrics; Geographic Information Systems (GIS); soil and remote sensing applications.

sabgru@ufl.edu



Thomas Hennessey

Aim 1
Professor

Department of Resource Ecology & Management
Oklahoma State University

Research Interests: Effects of water stress and soil nutrient deficiencies on tree growth and wood formation; quantification of forest physiological responses to silvicultural practices, including thinning, fertilization, and competition control.

tomhenn@okstate.edu



Jason Holliday

Aim 3
Assistant Professor

Department of Forest Resources & Environmental Conservation
Virginia Tech

Research Interests: Climatic adaptation in widely distributed tree species; transcriptional responses to abiotic stress; genotype-phenotype association studies; conservation genetics; genome-enabled breeding; adaptation of tree populations to climate change; landscape genomics.

jah1@vt.edu



Bill Hubbard

Aim 6 (Leader)
Southern Regional Extension Forester

Southern Regional Extension Forestry
University of Georgia

Research Interests: Program evaluation; audience assessment.

whubbard@sref.info



Principal Investigators

Joshua Idassi

Aim 6
Natural Resources Management Specialist

Cooperative Extension
School of Agriculture and Environmental Sciences
North Carolina A&T University

Research Interests: Forestry extension.

joidassi@ncat.edu



Fikret Isik

Aim 3
Associate Professor of Quantitative Forest Genetics

Department of Forestry & Environmental Resources
North Carolina State University

Research Interests: Quantitative genetics; genetic basis of disease resistance of forest trees; wood density assessment and genetics; application of molecular markers in tree breeding; genomic selection; conservation of forest genetic resources.

fikret_isik@ncsu.edu



Kurt Johnsen

Aim 1, Aim 3
Team Leader/Plant Physiologist

Forest Genetics & Biological Foundations
U.S. Forest Service
Southern Research Station

Research Interests: Forest tree growth and physiological responses to variation in water and nutrient availability, temperature, and atmospheric CO₂ environment; process model development and evaluation.

kjohnsen@fs.fed.us



Eric Jokela

Aim 1, Aim 6
Professor of Silviculture & Forest Nutrition
Co-Director, Forest Biology Research Cooperative

School of Forest Resources & Conservation
University of Florida

Research Interests: Nutritional aspects of forest yield; understanding stand-level responses (e.g., canopy dynamics, light interception, carbon allocation) and ecosystem processes (soil nutrient supply, nutrient cycling, uptake and use efficiency) that influence the production ecology of managed coniferous forests.

ejokela@ufl.edu



Principal Investigators

James Jones

Senior Advisor to PINEMAP
Distinguished Service Professor
Director, Florida Climate Institute

Department of Agricultural and Biological Engineering
University of Florida

Research Interests: Agricultural production systems analysis; simulation; crop and soil modeling; environmental effects on crop growth and yield; computer applications in agriculture.

jimj@ufl.edu



Michael Kane

Aim 1, Aim 2, Aim 4, Aim 6
Professor, Quantitative Silviculture
Director, Plantation Management Research Cooperative

Warnell School of Forestry & Natural Resources
University of Georgia

Research Interests: Pine and hardwood silviculture; plantation growth and yield; decision tools; site productivity; tropical forestry.

mkane@warnell.uga.edu



John King

Aim 1
Associate Professor

Department of Forestry & Environmental Resources
North Carolina State University

Research Interests: Assessing how the cycling and storage of carbon and water in forested ecosystems are influenced by climate variability, management, genetics, and the interaction of biotic and abiotic stresses; potential productivity and sustainability of short-rotation woody cropping systems for bioenergy.

john_king@ncsu.edu



Konstantin (Kostya) Krutovsky

Aim 3
Professor

Department of Ecosystem Science & Management
Texas A&M University

Department of Forest Genetics and Tree Breeding
George August University of Göttingen

Research Interests: Genetic control of complex traits that define adaptation and response to environmental stresses in conifers, as well as traits of practical value, such as wood quality, growth, and disease resistance, which often have quantitative expression.

k-krutovsky@tamu.edu
kkrutov@gwdg.de



Principal Investigators

Carol Loopstra

Aim 3
Associate Professor

Department of Ecosystem Science & Management
Texas A&M University

Research Interests: Gene expression and function during wood development; regulation and function of genes induced by water deficit stress; pecan genetic diversity.

c-loopstra@tamu.edu



Chris Maier

Aim 1
Research Biological Scientist

Forest Genetics & Biological Foundations
U.S. Forest Service
Southern Research Station

Research Interests: Stand-level carbon cycling in loblolly pine in response to changes in nutrient and moisture availability; characterization of growth, carbon exchange and carbon allocation of loblolly pine under varied nutrient and atmospheric Carbon dioxide.

cmaier@fs.fed.us



Daniel Markewitz

Aim 1
Professor, Soil Site Productivity

Warnell School of Forestry & Natural Resources
University of Georgia

Research Interests: Quantifying how nutrient and hydrologic cycles control the chemistry of forest soils, drainage waters, and forest productivity.

dmarke@warnell.uga.edu



Timothy Martin

Project Director
Professor, Tree Physiology
Co-Director, Forest Biology Research Cooperative

School of Forest Resources & Conservation
University of Florida

Research Interests: Tree physiology; mechanisms controlling productivity, carbon and water flux in trees and forests.

tamartin@ufl.edu



Principal Investigators

Mary Anne McGuire

Aim 1
Assistant Research Scientist

Warnell School of Forestry & Natural Resources
University of Georgia

Research Interests: Tree physiology and forest ecophysiology; carbon fluxes and allocation in trees; effects of environmental factors (temperature, CO₂ concentration, soil moisture, soil fertility) on tree carbon gain.

mmcguire@uga.edu



Steve McKeand

Aim 2, Aim 3, Aim 6
Professor of Forestry & Environmental Resources
Director, North Carolina State University Cooperative Tree Improvement Program

Department of Forestry & Environmental Resources
North Carolina State University

Research Interests: Genetic effects on nutritional and ecophysiological processes in forest trees, genetic and environmental control of wood properties, biotechnology/ breeding interface, propagation effects on forest trees, seed orchard management, and genotype by environment interactions.

steve_mckeand@ncsu.edu



Steve McNulty

Aim 2 (Leader)
Ecologist and Team Leader

USDA Forest Service Eastern Forest Environmental Threat Assessment Center

Research Interests: Landscape to regional to scale forest ecosystem modeling including forest hydrology, productivity, resource economics, and wildlife and forest diversity; interactions and response of forests to global climate change and other environmental stresses.

steve_mcnulty@ncsu.edu



Mark Megalos

Aim 6
Extension Forestry Specialist

Department of Forestry & Environmental Resources
North Carolina State University

Research Interests: Landowner incentives; programmatic impacts; biomass; conservation strategies.

mamegalo@ncsu.edu



Principal Investigators

Martha Monroe

Aim 5 (Leader), Aim 6
Education/Extension Integration Leader
Professor & Extension Specialist

School of Forest Resources & Conservation
University of Florida

Research Interests: Environmental education and extension; conservation behavior; human dimensions of wildland-urban interface issues.

mcmonroe@ufl.edu



Dana Nelson

Aim 3
Project Leader/Research Geneticist

USDA Forest Service Southern Research Station
Forest Genetics & Biological Foundations

Research Interests: Host-pathogen genetics; population and quantitative genetics of southern pines; DNA marker development and genome mapping; comparative genomics of southern pines and related conifers.

dananelson@fs.fed.us



Asko Noormets

Aim 1, Aim 2
Research Associate Professor

Department of Forestry & Environmental Resources
North Carolina State University

Research Interests: Forest ecophysiology; regulation of respiration; carbon and water balance in changing climate; management and disturbance effects on ecosystem function.

anoormets@gmail.com



John Nowak

Aim 2
Entomologist
Southern Pine Beetle Prevention Restoration Coordinator

USDA Forest Service Southern Research Station
Forest Health Protection

Research Interests: Forest health protection; forest entomology; southern pine beetle.

jnowak@fs.fed.us



Principal Investigators

Gary Peter

Aim 3, Aim 4, Aim 6
Adaptation Integration Leader
Professor, Forest Genomics & Cell Biology
Co-Director, Cooperative Forest Genetics Research Program
Co-Director, Forest Biology Research Cooperative

School of Forest Resources & Conservation
University of Florida

Research Interests: Forest genomics, biotechnology, and cell biology; studies of development of plant vascular system.

gfpeter@ufl.edu



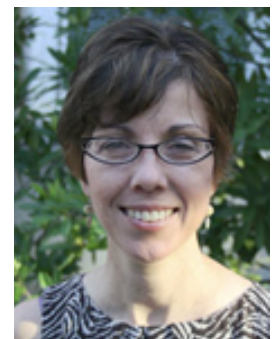
Lisa Samuelson

Aim 1
Professor of Tree Physiology

School of Forestry & Wildlife Sciences
Auburn University

Research Interests: Tree physiological responses to environmental and silvicultural influences; climate change response and carbon sequestration in southern forests; influence of intensive management on soil respiration in loblolly pine; mechanisms controlling maximum carrying capacity in loblolly pine.

samuelj@auburn.edu



John Seiler

Aim 1, Aim 5 (Leader)
The Honorable and Mrs. Shelton H. Short Professor of Forestry, Tree Physiology Specialist

Department of Forest Resources & Environmental Conservation
Virginia Tech

Research Interests: Environmental stress effects on woody plant physiology, including water pollutant stresses; physiological responses to silvicultural treatments; carbon sequestration.

jseiler@vt.edu



Shobha Sriharan

Aim 5
Professor

Department of Agriculture & Human Ecology
Virginia State University

Research Interests: Environmental science; air and water quality; remote sensing and GIS; environmental education.

ssriharan@vsu.edu



Principal Investigators

Jose Stape

Aim 1, Aim 6

Associate Professor of Forestry

Co-Director, Forest Productivity Cooperative

Department of Forestry & Environmental Resources

North Carolina State University

Research Interests: Forest nutrition; plantation forestry in southeastern U.S. and Latin America.

jlstape@ncsu.edu



Brian Strahm

Aim 1

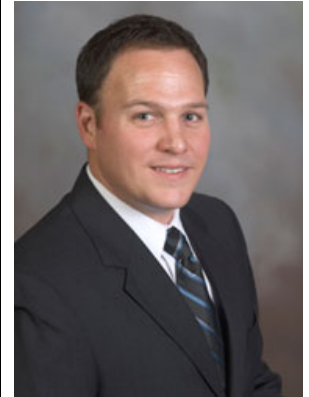
Assistant Professor of Forest Soils & Ecology

Department of Forest Resources & Environmental Conservation

Virginia Tech

Research Interests: Forest soils, ecological restoration, carbon and nutrient cycling, biogeochemistry, ecosystem ecology, reforestation, soil-plant-atmosphere interactions, sustainability, chemistry of soil interfaces, effects of land use and global change on soil properties, processes, and function.

brian.strahm@vt.edu



Ge Sun

Aim 2

Research Hydrologist

USDA Forest Service Eastern Forest Environmental Threat Assessment Center

Research Interests: Effects of climate change and land management on water quantity and quality; quantification of water balances at multiple temporal and spatial scales; impacts of global change on water supply and demand; hydrology of forested wetland ecosystems.

ge_sun@ncsu.edu



Eric Taylor

Aim 1, Aim 6 (Leader)

Associate Professor & Extension Specialist

Texas A&M AgriLife Extension Service

Texas A&M Forest Service

Research Interests: Ecosystem services such as carbon sequestration, woody bioenergy, traditional pine silviculture, landscape forestry, and wildland/urban interface management opportunities and issues.

eltaylor@tamu.edu



Principal Investigators

Robert Teskey

Aim 1, Aim 2

Distinguished Research Professor, Physiology & Forest Ecology

Warnell School of Forestry & Natural Resources
University of Georgia

Research Interests: Physiology; forest ecology; how the environment affects physiological processes in trees, and, in turn, ecosystem functions; how trees acquire and use resources from the air and soil; how trees cope with biotic and abiotic stresses; factors that control forest productivity and carbon sequestration.

rteskey@uga.edu



Quinn Thomas

Aim 2

Assistant Professor

Department of Forest Resources & Environmental Conservation
Virginia Tech

Research Interests: My interests broadly focus on understanding the interactions between forests and global environmental change. To address these questions, I work across a wide range of spatial scales, from individual trees to the globe using a broad set of tools, including ecosystem and Earth System models, remote sensing, large dataset analysis, and whole-ecosystem experiments.

rqtthomas@vt.edu



Valerie Thomas

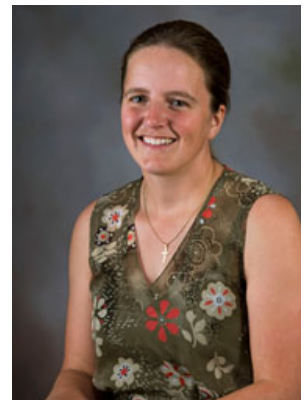
Aim 2

Assistant Professor

Department of Forest Resources & Environmental Conservation
Virginia Tech

Research Interests: Remote sensing of forest canopy structure and function using lidar and hyperspectral technology; integration of these data with micrometeorological measurements to model canopy-scale photosynthesis; evaluation of the impact of local heterogeneity on estimates of carbon exchange.

thomasv@vt.edu



Jason Vogel

Aim 1

Assistant Professor

Department of Ecosystem Science & Management
Texas A&M University

Research Interests: Ecosystem management; the physical environment; plant and microbial communities effects on cycling of carbon, nitrogen, and other nutrients through terrestrial ecosystems; forest productivity responses to silvicultural treatments and how this response affects soil carbon and nutrient cycling through changes in tree biomass allocation.

jason_vogel@tamu.edu



Principal Investigators

Jason West

Aim 1
Assistant Professor

Department of Ecosystem Science & Management
Texas A&M University

Research Interests: Roles of vegetation in ecosystem functions such as water, carbon and nitrogen cycling, with a particular interest in characteristics of tissues found below ground.

jbwest@tamu.edu



Ross Whetten

Aim 3 (Leader)
Associate Professor

Department of Forestry & Environmental Resources
North Carolina State University

Research Interests: Biochemistry and molecular biology of tree growth and development.

rosswhet@ncsu.edu



Rodney Will

Aim 1 (Leader)
Professor

Department of Resource Ecology & Management
Oklahoma State University

Research Interests: Effects of silvicultural treatments on growth, productivity, and physiology of forest stands; environmental effects on the photosynthesis and respiration of trees; canopy dynamics of forest stands; effects of global climate change on trees and forests.

rodney.will@okstate.edu



Duncan Wilson

Aim 1
Assistant Professor

Department of Resource Ecology & Management
Oklahoma State University

Research Interests: Ecological data-model integration with Bayesian methods; ecological risk analysis; efficient sampling methods for terrestrial carbon stocks restoration ecology in prairie and pine-oak savanna systems, belowground dynamics, tree-grass interactions, carbon sequestration in tall-grass prairie-savanna systems; forest restoration dynamics and wildlife habitat interactions; soil-site quality relationships in dry-land ecosystems.

duncan.wilson@okstate.edu



Principal Investigators

Randy Wynne

Aim 2 (Leader)

Professor of Forestry & Remote Sensing

Department of Forest Resources & Environmental Conservation
Virginia Tech

Research Interests: Application of remote sensing to forestry, natural resource management, ecological modeling, and earth system science.

wynne@vt.edu



Dehai Zhao

Aim 1

Research Scientist (Graduate Faculty)

Warnell School of Forestry & Natural Resources
University of Georgia

Research Interests: Growth and yield modeling; ecological modeling; biomass production and carbon sequestration; forest inventory; quantitative management; quantitative silviculture.

dzhao@warnell.uga.edu



Research/Technical Staff & Postdocs

Madison Akers

Aim 1
Research Coordinator

Warnell School of Forestry & Natural Resources
University of Georgia

Role: Coordinating baseline measurements on Tier II sites and overseeing installation and data collection on the Georgia Tier III site.

akersm@warnell.uga.edu



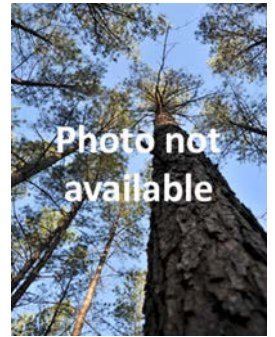
Tim Albaugh

Aim 1
Research Associate

Department of Forestry & Environmental Resources
North Carolina State University

Role/research focus: Evaluating impacts of weed control and fertilization on loblolly pine using the 3-PG model.

talbaugh@ncsfnc.cfr.ncsu.edu



Jose Alvarez

Aim 1, 2
Postdoc

Department of Forestry & Environmental Resources
North Carolina State University

Role/research focus: Evaluating changes in loblolly pine leaf area due to silvicultural treatments as a concept of the 3-PG model.

jalvarez@ncsfnc.cfr.ncsu.edu



Wendy-Lin Bartels

Assistant Research Scientist

Department of Agricultural and Biological Engineering
Florida Climate Institute, Southeast Climate Consortium
University of Florida

Role/research focus: Examining the social and collaborative processes that foster integrated research and extension within PINEMAP.

wendylin@ufl.edu



Leslie Boby

Aim 6
Extension Associate

Southern Regional Extension Forestry
University of Georgia

Role: Assisting with formation of regional Extension teams and PINEMAP Extension Advisory Board; developing and evaluating extension products; and developing and coordinating forestry Extension needs assessment.

lobby@sref.info



Research/Technical Staff & Postdocs

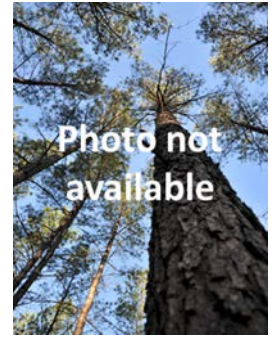
Sean Burns

Aim 6
Extension Assistant

Texas A&M AgriLife Extension Service

Role: Developing and evaluating Extension products; coordinating Western Gulf Silvicultural workshops.

sean.burns@ag.tamu.edu



Josh Cucinella

Aim 1
Research Technician

School of Forest Resources and Conservation
University of Florida

Role: Assisting with site maintenance and data collection on Florida Tier II and III sites.

jcucinella@ufl.edu



Heather Dinon Aldridge

Aim 6
Applied Climatologist

State Climate Office of North Carolina
North Carolina State University

Role: Facilitating interaction between PINEMAP researchers and state climatologists; working on planning for and development of the PINEMAP DSS; assisting with development of PINEMAP fact sheets.

hadinon@ncsu.edu



Puneet Dwivedi

Aim 4
Postdoc

Energy Biosciences Institute
University of Illinois at Urbana-Champaign

Role/research focus: Working with Dr. Gan to assess impacts of climate change on southern pine beetle infestation and exploring life cycle impacts of different wood products produced using southern pines.

puneetdwivedi@gmail.com



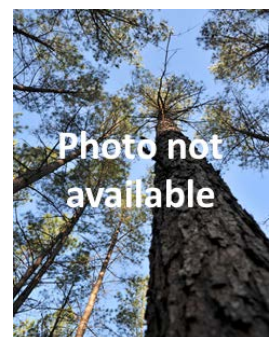
Sam Frye

Aim 1
Research Technician

Department of Forest Resources & Environmental Conservation
Virginia Tech

Role: Assisting with CO₂ efflux and N₂O measurements and installation and data collection on Tier II and Tier III sites.

samfrye@vt.edu



Research/Technical Staff & Postdocs

Carlos Gonzalez

Aim 1, Aim 2
Research Associate

School of Forest Resources & Conservation
University of Florida

Role: Ecophysiology and Carbon Balance Modeling; support of tree transpiration measurements for Tier III; use of 3PG model to assess the effect of climate change in productivity of loblolly pine plantations in SE U.S.

cgonzabe@ufl.edu



Bob Heinemann

Aim 1
Research Coordinator

Kiamichi Forestry Research Station
Oklahoma State University

Role: Assists with site maintenance and data collection on Oklahoma Tier III site.

bob.heinemann@okstate.edu



Randy Holeman

Aim 1
Research Specialist

Kiamichi Forestry Research Station
Oklahoma State University

Role: Assists with site maintenance and data collection on Oklahoma Tier III site.

randy.holeman@okstate.edu



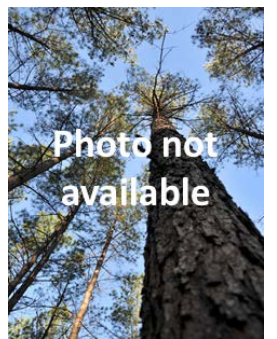
Brandon Hoover

PINEMAP/TerraC Data Manager

Soil & Water Science
Department
University of Florida

Role: Manages the PINEMAP/TerraC database and PINEMAP data.

hoover@ufl.edu



Jessica Ireland

PINEMAP Project Coordinator

School of Forest Resources & Conservation
University of Florida

Role: Coordinates project-wide activities; maintains the project web site and intranet site; organizes and coordinates project meetings; manages and oversees interim and annual reporting; and coordinates project communications.

jjtireland@ufl.edu



Research/Technical Staff & Postdocs

John Kidd

Aim 5
PINEMAP Intern Program Coordinator, Ph.D. student

Department of Forest Resources & Environmental Conservation
Virginia Tech

Role: Developing the selection criteria, matching students, awarding proposals, developing the fall course, and working with local teachers to set up school presentations for the PINEMAP Undergraduate Intern Program.

jbkidd@vt.edu



Tomasz Koralewski

Aim 3
Postdoc

Department of Ecosystem Science & Management
Texas A&M University

Role/research focus: Building a location database for the progeny tests and the parents represented in those progeny tests that can be linked to climatic data. This database will form the backbone of the URF analysis to optimize seedling deployment.

tkoral@tamu.edu



Andy Lavinier

Aim 1
Research Coordinator
Ph.D. student

Department of Forest Resources & Environmental Conservation
Virginia Tech

Role: Coordinating baseline measurements on Tier II sites and overseeing data collection on Virginia Tier III site.

alavinier@vt.edu



Geoffrey Lokuta

Aim 1
Research Coordinator

School of Forest Resources & Conservation
University of Florida

Role: Coordinating baseline measurements on Tier II sites and overseeing data collection on Florida Tier III site.

bassman@ufl.edu



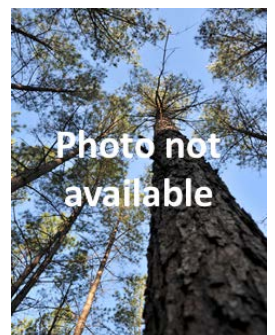
Casey Meek

Aim 1
Research Associate

Department of Natural Resource Ecology & Management
Oklahoma State University

Role: Assisting with ecophysiological and process measurements on Tier III and Tier II sites.

casey.meek@okstate.edu



Research/Technical Staff & Postdocs

Annie Oxarart

Aim 5
PINEMAP Education Coordinator

School of Forest Resources & Conservation
University of Florida

Role: Working on the development of the PLT/PINEMAP Secondary Module including assisting with the needs assessment, development and pilot testing of activities, and oversight of the Education Advisory Committee.

oxarart@ufl.edu



Risa Patarasuk

Aim 2
GIS Specialist

Soil and Water Science Department
University of Florida

Role: Working on reprojections, extractions, and consolidation of various spatial datasets for regionwide modeling.

risajook@ufl.edu



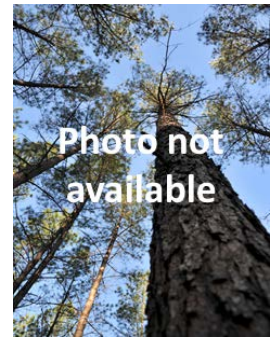
Jason Pike

Aim 1
Research Technician

Department of Natural Resource Ecology & Management
Oklahoma State University

Role: Assisting with installation, maintenance, and data collection on Tier II sites.

jason.pike@okstate.edu



Richard Plate

Aim 5, Aim 6
Postdoc

School of Forest Resources and Conservation
University of Florida

Role: Assisting with the development and evaluation of activities for the PLT/PINEMAP Secondary Module and analyzing needs assessment data; assisting with data analysis for the Extension climate perceptions survey.

richarp33@gmail.com



Research/Technical Staff & Postdocs

Elaine Stebler

Aim 1
Research Technician

Department of Natural Resource Ecology & Management
Oklahoma State University

Role: Coordinating baseline measurements on Tier II sites and overseeing data collection on Oklahoma Tier III site.

elaine.stebler@okstate.edu



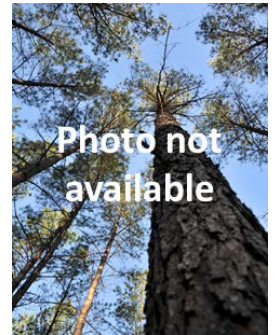
Tom Stokes

Aim 1
Research Associate

School of Forestry & Wildlife Sciences
Auburn University

Role: Assisting with installation, maintenance, and data collection on Tier II sites.

stoketa@auburn.edu



Andres Susaeta

Aim 4
Postdoc

School of Forest Resources & Conservation
University of Florida

Role/research focus: Developing a forest stand-level model to assess expected economic rents for forest landowners under hurricane risks associated with future climate change conditions; developing an economic model to analyze carbon sequestration in loblolly pine plantations under various carbon subsidies and tax rates in the context of climate change.

asusaeta@ufl.edu



Nilesh Timilsina

Aim 2, Aim 4
Postdoc

School of Forest Resources & Conservation
University of Florida

Role: Working on assessing the interactions between different ecosystem services in pine flatwoods and optimizing modeling to maximize a particular ecosystem service and assess the tradeoff of the others.

nilesht@ufl.edu



Research/Technical Staff & Postdocs

Eric Ward

Aim 1, Aim 2

Postdoc

Department of Forestry & Environmental Resources
North Carolina State University

Role/research focus: Measuring and modeling forest water and carbon cycles, including quantifying uncertainty in key processes; working with both Aim 1 and 2 to integrate data and models such as 3PG and WaSSI-C across scales; assisting with data collection and analysis of water fluxes at the Virginia Tier III site.

eric.ward@gmail.com

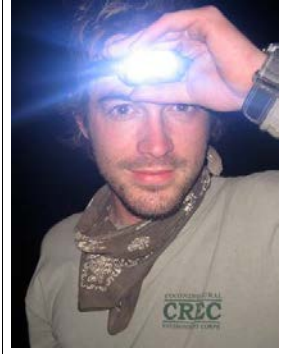


Graduate Students

Casey Ausmus

Aim 1
M.S. student
Advisor: Tom Hennessey
Department of Natural Resource Ecology & Management
Oklahoma State University

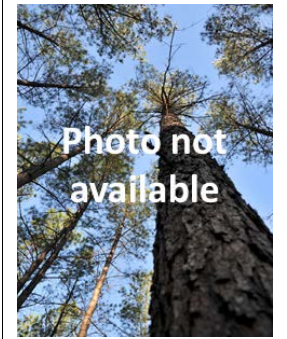
cjausmus@gmail.com



Stan Bartkowiak

Aim 1
M.S. student
Advisor: Lisa Samuelson
School of Forestry & Wildlife Sciences
Auburn University

smb0056@auburn.edu



Rajesh Bawa

Aim 3
Ph.D. student
Advisor: Jason Holliday
Department of Forest Resources & Environmental Conservation
Virginia Tech

Research Focus: Phenotyping of adaptive traits in loblolly pine progeny trials; working with universities across region to conduct genome-wide association mapping between these traits and the re-sequencing data.

rajesh13@vt.edu



Rachel Burnett

Aim 6
M.S. student
Advisor: Mark Megalos
Department of Forestry & Environmental Resources
North Carolina State University

Research Focus: Annual and decadal climate forcing of historical and current trends in fire regime in Southeast forests.

reburnet@ncsu.edu



Joe Clark

Aim 1
M.S. student
Advisor: Lisa Samuelson
School of Forestry & Wildlife Sciences
Auburn University

Research Focus: Assessing relationships among intercepted radiation, LAI, photosynthetic capacity, phenology, and productivity in loblolly pine.

jec0037@auburn.edu



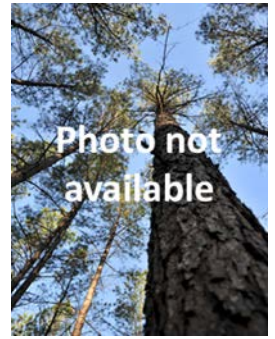
Graduate Students

Zach Clark

Aim 1
M.S. student
Advisor: Mike Kane
Warnell School of Forestry & Natural Resources
University of Georgia

Research Focus: Assessing developmental pattern of understory vegetation on Tier II installations

clarkz@warnell.uga.edu



Hilary Cole

Aim 6
M.S. student
Advisor: Mark Megalos
Department of Forestry & Environmental Resources
North Carolina State University

Research Focus: Serving as a copy editor and author for factsheets and other PINEMAP-related publications; providing guidance with contextual examples for the climate education materials in collaboration with the State Climate Office of North Carolina.

hcole@ncsu.edu



Yuan Fang

Aim 2
Ph.D. student
Advisor: Jose Stape
Department of Forestry & Environmental Resources
North Carolina State University

Research focus: Using G'DAY model to address nitrogen use efficiency in pine plantations.

yfang@ncsu.edu



Alfredo Farjat

Aim 3
Ph.D. student
Advisors: Ross Whetten & Fikret Isik
Department of Forestry & Environmental Resources
North Carolina State University

Research Focus: Carrying out joint analysis of progeny test data and climate data for the Cooperative Tree Improvement Program.

aefarjat@ncsu.edu

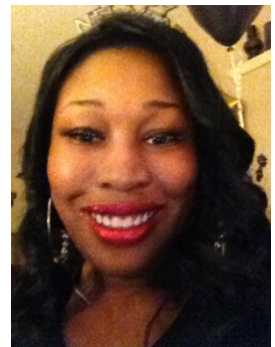


Anslei Foster

Aim 6
M.S. student
Advisor: Joshua Idassi
School of Agriculture and Environmental Sciences
North Carolina A&T University

Research Focus: Developing fact sheets and publications for PINEMAP.

ajfoster@ncat.edu



Graduate Students

Ranjith Gopalakrishnan

Aim 2
Ph.D. student
Advisor: Randy Wynne
Department of Forest Resources & Environmental Conservation
Virginia Tech

Research Focus: Reformatting the NARCCAP scenarios for key climate variables from six models (GCM/RCM combinations).

ranjith7@vt.edu

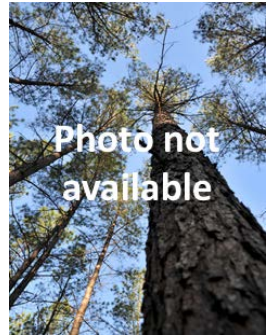


Nabin Gyawali

Aim 2
Ph.D. student
Advisor: Harold Burkhart
Department of Forest Resources & Environmental Conservation
Virginia Tech

Research Focus: Developing a growth and yield model flexible enough to allow modification in diameter, height, and mortality at tree- and stand-level for diverse genotypes and silvicultural practices under varying conditions (using Tier I datasets).

nabin@vt.edu



Stephanie Hall

Aim 5
M.S. student
Advisor: Martha Monroe
School of Forest Resources & Conservation
University of Florida

Research Focus: How to best introduce potentially divisive and contested concepts in secondary school curricula.

blondiehall@ufl.edu



Brett Heim

Aim 1
M.S. student
Advisor: John Seiler
Department of Forest Resources & Environmental Conservation
Virginia Tech

Research Focus: Separating heterotrophic and autotrophic respiration components of soil CO₂ efflux

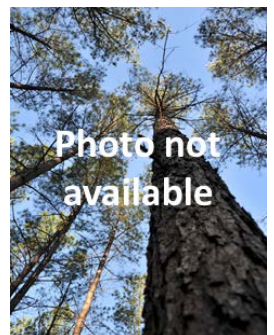
bheim@vt.edu



Miles Ingwers

Aim 1
Ph.D. student
Advisor: Bob Teskey
Warnell School of Forestry and Natural Resources
University of Georgia

ingwers1@uga.edu



Graduate Students

Puskar Khanal

Aim 4
Ph.D. student
Advisor: Donald Grebner
College of Forest Resources
Mississippi State University

Research Focus: Evaluating forest management practices that enhance carbon sequestration in stands; developing survey instrument to determine small forest landowners' willingness to implement these practices and identify potential incentives that increase carbon sequestration at the stand level.

pnk7@msstate.edu

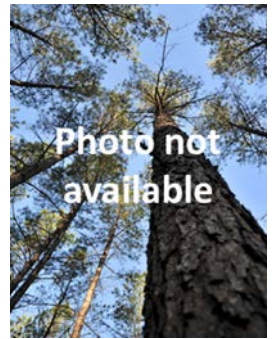


Shelby Krantz

Aim 6
M.S. student
Advisor: Martha Monroe
School of Forest Resources & Conservation
University of Florida

Developing strategies for communicating the science of climate change to forest landowners in North Florida; video as a possible medium for knowledge transfer

skrantz@ufl.edu

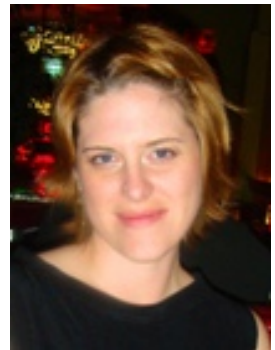


Melissa Kreye

Aim 4
Ph.D. student
Advisor: Damian Adams
School of Forest Resources & Conservation
University of Florida

Research Focus: Economic value of forest-based changes in water quality; meta-analysis of forest-based water quality values; specified an econometric model that predicts willingness to pay for forest-based water quality; using benefit transfer method, applied the model to two representative sites.

mkreye@ufl.edu



Jie (Christine) Li

Aim 5
Ph.D. student
Advisor: Martha Monroe
School of Forest Resources & Conservation
University of Florida

Research Focus: Developing and conducting formative and summative evaluation for PINEMAP Project Learning Tree Secondary Module.

lix1233@ufl.edu



Graduate Students

Wen Lin

Aim 1

Ph.D. student

Advisors: Asko Noormets & J.C. Domec

Department of Forestry & Environmental Resources

North Carolina State University

Research Focus: Water use efficiency in loblolly pine using 12C/13C ratios in wood

wlin@ncsu.edu



Mengmeng (Miranda) Lu

Aim 3

Ph.D. student

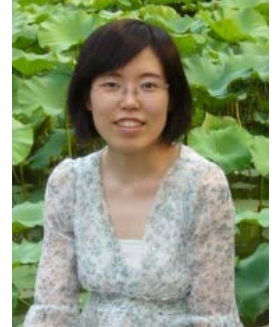
Advisors: Carol Loopstra & Konstantin Krutovsky

Department of Ecosystem Science & Management

Texas A&M University

Research Focus: Evaluating efficiency of Agilent SureSelect target gene enrichment system for Illumina GAI and HiSeq high-probe design using the Agilent eArray tool and the most recent and comprehensive unigene set consisting of 42077 sequences representing individual genes expressed in loblolly pine.

mira0501@neo.tamu.edu



Cody Luedtke

Aim 1

Ph.D. student

Advisor: Robert Teskey

Warnell School of Forestry & Natural Resources

University of Georgia

Research Focus: Soil CO₂ efflux; tree carbon storage and use with changing environmental parameters.

luedtkec@warnell.uga.edu



Adam Maggard

Aim 1

Ph.D. student

Advisor: Rob Will

Department of Natural Resource Ecology & Management

Oklahoma State University

Research Focus: Ecophysiology on Tier II and Tier III sites.

adam.maggard@okstate.edu



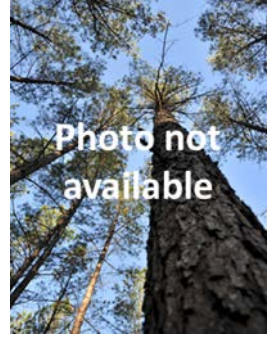
Graduate Students

Teri Medsker

Aim 1
Ph.D. student
Advisor: Duncan Wilson
Department of Natural Resource Ecology & Management
Oklahoma State University

Research Focus: Belowground processes affected by fertilization and water availability.

teri.medsker@okstate.edu



April Meeks

Aim 1
M.S. student
Advisor: Jose Stape
Department of Forestry & Environmental Resources
North Carolina State University

Research Focus: Incorporating competing vegetation in 3-PG model.

allail@ncsu.edu

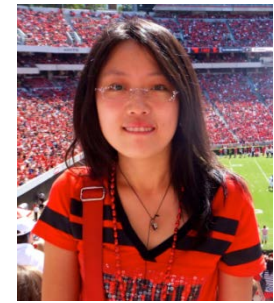


Jill Qi

Aim 1
Ph.D. student
Advisor: Dan Markewitz
Warnell School of Forestry & Natural Resources
University of Georgia

Research Focus: Soil water and deep soil carbon responses under rain throughfall treatment at Tier III sites.

qij@warnell.uga.edu

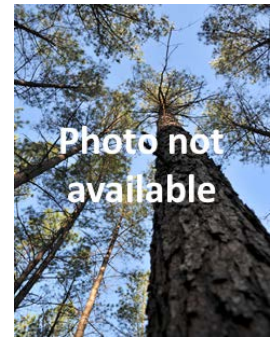


Jay Raymond

Aim 1
Ph.D. student
Advisor: Tom Fox
Department of Forest Resources & Environmental Conservation
Virginia Tech

Research Focus: N uptake efficiency of enhanced efficiency N fertilizers using ^{15}N stable isotopes.

jayer11@vt.edu



C. Wade Ross

Aim 2
Ph.D. student
Advisor: Sabine Grunwald
Department of Soil and Water Science
University of Florida

Research Focus: Investigating soil carbon dynamics along hydrology and fire regimes in southern pine ecosystems; investigating the effects of fire disturbance on the structure and function of soil carbon dynamics in pine and wetland ecosystems; and developing a mechanistic model to upscale site specific findings to the regional scale.

wader@ufl.edu



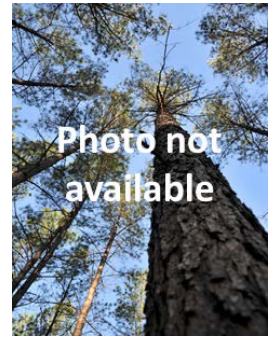
Graduate Students

Jose Soto

Aim 4
Ph.D. student
Advisor: Damian Adams
School of Forest Resources & Conservation
University of Florida

Research Focus: Assessing and summarizing competing programs and policies that incentivize carbon sequestration at the local, state, and national, and international level.

josesoto@ufl.edu

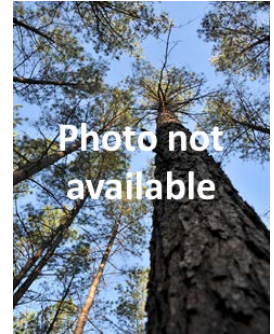


Santosh Subedi

Aim 1
Ph.D. student
Advisor: Tom Fox
Department of Forest Resources & Environmental Conservation
Virginia Tech

Research Focus: Identifying/developing improved method to determine fertility rating for 3-PG.

subedis@vt.edu



Laura Townsend

Aim 3
M.S. student
Advisor: Ross Whetten

Department of Forestry & Environmental Resources
North Carolina State University

Research Focus: Genetic variation in loblolly pine for adaptability to climate variables.

laura.townsend.a@gmail.com



Maggie Wang

Aim 2
Ph.D. student
Advisor: Robert Teskey
Warnell School of Forestry & Natural Resources
University of Georgia

Research Focus: Predicting C pool dynamics for alternative land use, management, and climate scenarios at the stand level; link 3-PG and Century to examine forest ecosystem carbon sequestration.

wangy@warnell.uga.edu



Maxwell Wightman

Aim 1
M.S. student
Advisor: Tim Martin
School of Forest Resources & Conservation
University of Florida

Research Focus: Ecophysiology of drought response on Tier III site.

mgwightm@ufl.edu



Graduate Students

Elizabeth Wilson

Aim 1
M.S. student
Advisor: Jason West
Department of Ecosystem Science & Management
Texas A&M University

Research Focus: Measuring plant physiological responses to climate manipulations (rainfall exclusion) at the Tier III site in Oklahoma.

ewilson07@tamu.edu

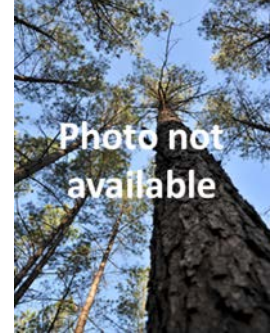


Jinyan Yang

Aim 1
Ph.D. student
Advisor: Robert Teskey
Warnell School of Forestry & Natural Resources
University of Georgia

Research Focus: Heterotrophic and autotrophic components of soil respiration.

ugaecoyang@gmail.com

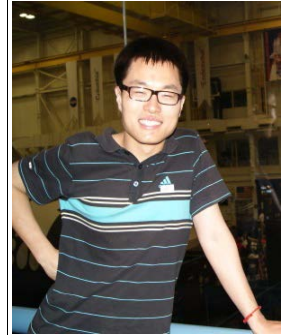


Lu Zhai

Aim 1
M.S. student
Advisor: Jason Vogel
Department of Ecosystem Science & Management
Texas A&M University

Research Focus: Family and culture effects on ecosystem C and N dynamics.

zhailu@neo.tamu.edu



Jianxing Zhang

Aim 3
Ph.D. student
Advisor: Gary Peter
School of Forest Resources & Conservation
University of Florida

Research Focus: Conducting analyses linking progeny test performance with climatic data; developing database for the URF analysis to optimize seedling deployment.

zhangjx04@ufl.edu



Yang Zhang

Aim 1
Ph.D. student
Advisor: Jason West
Department of Ecosystem Science & Management
Texas A&M University

Research Focus: Carbon and nitrogen cycling response to drought at the Oklahoma Tier III site.

zhangyang@tamu.edu

