

Faculty Research Interests

SOIL SCIENCE



Carlos Alberto Silva
Soil fertility and Plant Nutrition

Soil organic matter; agronomic value humic substances; agronomic use of biochars; agricultural use of organic residues.

csilva@ufla.br



DOUGLAS RAMOS GUELFÍ SILVA
Soil fertility and Plant Nutrition

Agronomic efficiency of stabilized, slow or controlled release fertilizers; fertilization of annual and perennial crops; fertilizers and the environment with an emphasis on greenhouse gas emissions in agricultural areas

douglasguelfi@ufla.br



TEOTÔNIO SOARES DE CARVALHO
Biology, Microbiology and Soil Biological Processes

Soil microbial ecology, environmental data analysis, bioinformatics applied to microbial ecology.

teotonio.carvalho@ufla.br



JOÃO JOSÉ GRANATE DE SÁ E MELO MARQUES
Environmental Resources and Land Use

Pedology and environmental geochemistry with emphasis on environmental contamination by heavy metals and soil mapping.

jmarques@ufla.br



Guilherme Lopes
Soil fertility and Plant Nutrition

Adsorption and desorption of trace elements, soil remediation of contaminated areas, use of X-ray absorption spectroscopy for the speciation of contaminants in soils/wastes, adsorption and behavior of selenium in Brazilian agroecosystems, and biofortification of agricultural crops with selenium.

guilherme.lopes@ufla.br



LEÔNIDAS CARRIJO AZEVEDO MELO
Soil fertility and Plant Nutrition

Dynamics of nutrients and trace elements in soils and plants, organomineral and biochar-based fertilizers, nutrient recovery from wastes and wastewaters, nanotechnology applied to fertilizers.

leonidas.melo@ufla.br



FATIMA MARIA DE SOUZA MOREIRA
Biology, Microbiology and Soil Biological Processes

Soil biodiversity, and biochemical and biophysical soil processes, plant-growth promoting microorganisms, soil quality indicators.

fmoreira@ufla.br



MARCO AURÉLIO CARBONE CARNEIRO
Biology, Microbiology and Soil Biological Processes

Soil microbiology, biochemistry, and mycorrhizal, bioindicator of soil quality; rehabilitation of degraded soil and integrated agricultural production systems.

marcocarbone@ufla.br



BRUNO MONTOANI SILVA
Environmental Resources and Land Use

Soil physics, soil and water management and conservation, applied pedology, soil and water engineering, hydrology, irrigation management, physical soil quality.

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BRUNO TEIXEIRA RIBEIRO
Environmental Resources and Land Use

Soil chemistry with emphasis on applications of proximal sensors for soil characterization, interface soil chemistry and soil physics.

brunoribeiro@ufla.br



GERALDO CÉSAR DE OLIVEIRA
Environmental Resources and Land Use

potentiality of soil use, diagnosis and prediction of soil compaction; structural degradation and soil restructuring in soils managed in coffee cultivation.

geraldooliveira@ufla.br



LUIZ ROBERTO GUIMARÃES GUILHERME
Environmental Resources and Land Use

Soil chemistry with emphasis on trace elements and plant nutrients, sorption and desorption of solutes, soil fertility, soil pollution, risk assessment and food safety.

guilherm@ufla.br



MARX LEANDRO NAVES SILVA
Environmental Resources and Land Use

techniques of modeling, validation, automation (VANT and sensors) and fingerprinting in studies of water erosion, land use capacity, payments for environmental services and use of technologies for soil conservation

marx@ufla.br



NILTON CURI
Environmental Resources and Land Use

Pedology and its relationships with soil and environmental management.

niltcuri@ufla.br



ADELIA AZIZ ALEXANDRE POZZA
Environmental Resources and Land Use

Relationship between plant nutrition and plant disease, nutrition of coffee plants and its relationship with quality of coffee beverage.

adelia.pozza@ufla.br



MARIA LIGIA DE SOUZA SILVA
Soil Fertility and Plant Nutrition

Plant nutrition for sustainable development, soil-plant relationship, ionic interaction in the absorption of plant elements, plant Nutrition and food quality.

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MICHELE DUARTE DE MENEZES
Environmental Resources and Land Use

Applied pedology with emphasis on pedological surveys, interpretations for soil management and digital soil mapping.

michele.menezes@ufla.br



SÉRGIO HENRIQUE GODINHO SILVA
Environmental Resources and Land Use

Pedology, with emphasis on genesis, morphology, classification, soil survey, spatial variability and digital soil mapping.

sergio.silva@ufla.br



JOSÉ OSWALDO SIQUEIRA
Biology, Microbiology and Soil Biological Processes

Microbiology with emphasis on fertilizers, management and sustainability of agricultural production, soil degradation and rehabilitation.

jose.oswaldo.siqueira@vale.com



VALDEMAR FAQUIN
Soil Fertility and Plant Nutrition

Plant nutrition, agronomic biofortification of food, rare earth elements, mineral nutrition, common bean, phosphate fertilization.

vafaquin@ufla.br



MOACIR DE SOUZA DIAS JUNIOR
Environmental Resources and Land Use

Soil physics and soil compaction, load bearing capacity of the soil classes, soil classes susceptibility to compaction, impact of the mechanized operations on the soil structure; natural recovery process of the soil structure after compaction.

msouzadj@ufla.br



YURI LOPES ZINN
Environmental Resources and Land Use

Soil organic carbon retention mechanisms, tropical soils, use of ancillary techniques - soil physical and chemical characterization, soil mineralogy, soil micromorphology, literature reviews and meta-analyses - to investigate soil genesis and factors affecting C sequestration in tropical environments.

yzzinn@ufla.br



JUNIOR CESAR AVANZI
Environmental Resources and Land Use

soil and water conservation; soil physical-hidric characterization; land use capacity and; erosion modeling.

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