

VITOR S. MARTINS

M.S. Remote Sensing (INPE)

B.S. Agricultural and Environ. Eng. (UFV)

📍 Ames, Iowa, United States

📞 Mobile: (515) 708-1469

✉ vitorstmartins@gmail.com

vitors@iastate.edu

EDUCATION



Aug 2017 - Present •

Agricultural and Biosystem Eng., PhD student

Iowa State University, ISU

Ames, IA, USA



2015 - 2017 •

Remote Sensing, Master Science

Brazilian Institute for Space Research, INPE

São José dos Campos, SP, Brazil



2009 - 2014 •

Agricultural and Environmental Engineering, Bachelor Science

Federal University of Viçosa, UFV

Viçosa, MG, Brazil



ACADEMIC HISTORY



Jan - Aug 2017 •

Professional, Imagem company – Geographic Solutions, SP.

<http://www.img.com.br/> – Imagem is the official Distributor of ESRI software for Brazil

- My responsibility is the model development for crop yield estimation based on satellite image.

2015 - 2017 •

Research Member, Instrumentation Laboratory for Aquatic Systems, INPE.

Coordinator: Dr. Claudio Clemente Faria Barbosa

- My activities are atmospheric correction of satellite images, and time series of MODIS atmospheric products over Amazon region.

Jan - Aug 2014 •

Research Assistant (CNPq), Technical support of extension research, UFV.

Coordinator: Dr. Silvio Bueno Pereira

- Research with a proposition of coefficient to characterize the soil capacity of use in order to payment of environmental services.

Aug - Dec 2013 •

Research Assistant (FAPEMIG), Agricultural Department, UFV.

Coordinator: Dr. Demetrius David da Silva

- Spatial analysis of potential conflicts between water stakeholders, and geospatial data for watershed management.

Feb - May 2013 •

Internship program, Geomatics lab, EMBRAPA computing, SP.

Coordinator: Dr. João Santos Vila da Silva

- Development of geospatial dataset of Alta Paraguai and lectured two courses of GIS tools based on ArcGIS + satellite images.

Sep - Dec 2012 •

Research Assistant (ABE), Spatial Data Analysis lab, ISU.

Coordinator: Amy Kaleita

- Application of geospatial approach to assessing the biomass feedstock supplies under different tillage and residue harvest scenarios.

2010 - Aug 2012 •

Research Assistant (CNPq), Agricultural Department, UFV.

Coordinator: Dr. Demetrius David Silva e Dr. Hugo A. S. Guedes

- Development of ecohydrological modeling and analysis of flow regime.

2009 •

Research Volunteer, Irrigation and Drainage Experimental Area, UFV.

Coordinator: Dr. Paulo Afonso Ferreira e Dr. João B. L. da Silva

- Experiment with climate scenarios and their effects on bean production.

RECENT PUBLICATIONS



Martins, V. S., Kaleita, Amy, et al.. Remote sensing of large reservoir in the drought years: Implications on surface water change and turbidity variability of Sobradinho reservoir (Northeast Brazil). Remote Sensing Applications: Society and Environment (2019).

Martins, V. S., Soares, J.V., et al.. Continental-scale surface reflectance product from CBERS-4 MUX data: Assessment of atmospheric correction method using coincident Landsat observations. Remote Sensing of Environmental (2018).

Martins, V. S., Novo, E.MLM. et al.. Seasonal and interannual assessment of cloud cover and atmospheric constituents across the Amazon (2000–2015): Insights for remote sensing and climate analysis. ISPRS Journal of Photogrammetry and Remote Sensing (2018).

Martins, V. S., Barbosa, C.C.F., et al.. Assessment of atmospheric correction methods for Sentinel-2 MSI images applied to Amazon floodplain lakes. Remote Sensing (2017).

Martins, V. S., Lyapustin, A., et al.. Validation of high-resolution MAIAC aerosol product over South America. Journal of Geophysical Research: Atmosphere (2017).

Martins, V. S., de Carvalho, L.A.S., Barbosa, et al.. Accuracy assessment of OLI/Landsat-8 products in Amazon lakes: Atmospheric Correction. XVIII Brazilian Symposium of Remote Sensing (2017).

E.M.L.M., **Martins, V. S.,** Affonso, A.G., Montanher, O.C., et al.. Evaluation of WFI/CBERS-4 on water types over Mamirauá Sustainable Development Reserve, AM. XVIII Brazilian Symposium of Remote Sensing (2017).

de Carvalho, L.A.S., **Martins, V. S.,** et al.. Investigating empirical models to retrieve the backscattering slope from Landsat 8 Images - The case of Lago Grande Curuai. XVIII Brazilian Symposium of Remote Sensing (2017).

Ferreira, R.M.P., Barbosa, C.C.F., **Martins, V. S.,** et al.. Aplicação do sensor MSI/Sentinel-2 na estimativa de componentes óticamente ativos em lagos de planície de inundação amazônica. XVIII Brazilian Symposium of Remote Sensing (2017).

RESEARCH INTEREST

Spatiotemporal analysis of the land and water resources based on remote sensing data and GIS techniques for agricultural and environmental services.

KEY SKILLS



● Geomatic softwares

- i) ArcGIS desktop (+ 30 online ESRI)
- ii) MatLab and Python programming language
- iii) Microsoft Office package
- iv) ENVI, ERDAS GIS software

● Course Lectured: +10 short-courses about ArcGIS toolbox applying satellite images.

● Foreign Language

Fluent English
Basic Spanish

EXTRA-CURRICULUM ACTIVITIES



● Organization member

- i) First International Symposium on Food Security and Poverty Reduction
- ii) XXVI Brazilian Conference of Agricultural Engineer

● Academic events

+ 17 participation of workshops and symposiums about agricultural and water management

● Academic life

Two years as a representative member of undergraduate students on agricultural academic council - UFV

REFERENCES



Dr. Amy Kaleita
Iowa State University (ISU)
Agricultural and Biosystem Department
kaleita@iastate.edu

Dr. Claudio C. F. Barbosa
Brazilian Institute for Space Research (INPE)
Image Processing Division
claudio.barbosa@inpe.br

Dr. Evlyn M.L.M. Novo
Brazilian Institute for Space Research (INPE)
Remote Sensing Division
evlyn.novo@inpe.br