Lucas Miguel Tassis

PERSONAL INFORMATION

Citizenship: Brazilian
Personal Website: lucastassis.github.io
Contact: ltassis@bu.edu

EDUCATION

PhD in Computer Science, Boston University, USA　　　　　　　　　　**2024 – Present**
Supervisor: Prof. Mark Crovella

MSc in Computer Science, Universidade Federal do Espírito Santo, Brazil　　**2021 – 2024**
Thesis: On Combining Active Learning and Deep Learning from Label Proportions in Low-Budget Regimes
Supervisor: Prof. Giovanni Comarela

BSc in Computer Science, Universidade Federal do Espírito Santo, Brazil　　**2016 – 2021**
Thesis: Few-shot Learning for Biotic Stress Classification of Coffee Leaves
Supervisor: Prof. Renato Krohling

PUBLICATION LIST

[1] *Few-shot learning for biotic stress classification of coffee leaves*, **L.M. Tassis**, R.A. Krohling, Artificial Intelligence in Agriculture 6, 55-67 (2022)

[2] *An app to assist farmers in the identification of diseases and pests of coffee leaves using deep learning*, J.G.M. Esgario, P.B.C. de Castro, **L.M. Tassis**, R.A. Krohling Information Processing in Agriculture 9 (1), 38-47 (2022)

[3] *A deep learning approach combining instance and semantic segmentation to identify diseases and pests of coffee leaves from in-field images*, **L.M. Tassis**, J.E.T. de Souza, R.A. Krohling, Computers and Electronics in Agriculture 186, 106191 (2021)

SCHOLARSHIPS

2021–2024: MSc Scholarship from CAPES
2019–2020: Undergraduate Research Scholarship

2018–2019: Undergraduate Research Scholarship

ACTIVITIES

Research Experience

Undergraduate Researcher at Bio-inspired Computing Lab (LABCIN), Aug 2019 – Jul 2020

Research on image segmentation and deep learning models for biotic stress classification of coffee leaves.

Undergraduate Researcher at Bio-inspired Computing Lab (LABCIN), Aug 2018 – Jul 2019

Research on machine learning models for time-series predction using uncertain data.

Professional Experience

Internship at Cofness Informação, Jan 2021 – Apr 2021

Developed methods for automatic coffee bean selection using deep learning models for image segmentation, object detection and classification.

Teaching Assistant

Intro to Data Science, Universidade Federal do Espírito Santo, Brazil (2022)

Lecturer: Prof. Giovanni Comarela

Examining Commitees

BSc thesis defence of Philipe Aguiar Marques, Universidade Federal do Espírito Santo, Brazil (2023)

SKILLS

Languages

Portuguese, native
English, advanced

Software

Linux
LaTeX
Git

Programming Languages

Python PyTorch, Keras, Detectron2, scikit-learn, numpy, pandas
C/C++
Java