

# Lucas Miguel Tassis

## PERSONAL INFORMATION

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**Citizenship:** Brazilian

**Personal Website:** [lucastassis.github.io](https://lucastassis.github.io)

**Contact:** [ltassis@bu.edu](mailto:ltassis@bu.edu)

## EDUCATION

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**PhD in Computer Science**, Boston University, USA

2024 –

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

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- [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

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**2021–Present:** MSc Scholarship from CAPES

**2019–2020:** Undergraduate Research Scholarship

2018–2019: Undergraduate Research Scholarship

## ACTIVITIES

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### 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 prediction 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 Committees

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

## SKILLS

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### Languages

**Portuguese**, native

**English**, advanced

### Software

**Linux**

**L<sup>A</sup>T<sub>E</sub>X**

**Git**

### Programming Languages

**Python** PyTorch, Keras, Detec-  
tron2, scikit-learn, numpy, pan-  
das

**C/C++**

**Java**