

Lucas Miguel Tassis

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EDUCATION

2024 – Present **Ph.D. in Computer Science, Boston University, USA**
Advisor: Prof. Mark Crovella

2021 – 2024 **M.Sc. in Computer Science, Universidade Federal do Espírito Santo, Brazil**
Thesis: On combining active learning and deep learning from label proportions in low-budget regimes
Advisor: Prof. Giovanni Comarela

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

PUBLICATIONS

[1] **Privacy-preserving machine learning on web browsing for public opinion.**
In *International Symposium on Cyber Security, Cryptology, and Machine Learning*, pages 156–174. Springer Nature Switzerland Cham, 2025.
Buxbaum, Sam and **Tassis, Lucas M** and Boschelli, Lucas and Comarela, Giovanni and Varia, Mayank and Crovella, Mark and Christenson, Dino P.

[2] **On combining active learning and deep learning from label proportions in low-budget regimes.**
Progress in Artificial Intelligence, pages 1–20, 2025.
Tassis, Lucas M and Comarela, Giovanni.

[3] **Few-shot learning for biotic stress classification of coffee leaves.**
Artificial Intelligence in Agriculture, 6:55–67, 2022.
Tassis, Lucas M and Krohling, Renato A.

[4] **An app to assist farmers in the identification of diseases and pests of coffee leaves using deep learning.**
Information Processing in Agriculture, 9(1):38–47, 2022.
Esgario, José GM and de Castro, Pedro BC and **Tassis, Lucas M** and Krohling, Renato A.

[5] **A deep learning approach combining instance and semantic segmentation to identify diseases and pests of coffee leaves from in-field images.**
Computers and Electronics in Agriculture, 186:106191, 2021.
Tassis, Lucas M and de Souza, Joao E Tozzi and Krohling, Renato A.

RESEARCH EXPERIENCE

Undergraduate Researcher Aug 2019 – Jul 2020
Advised by Prof. Renato Krohling *Bio-inspired Computing Lab (LABCIN), UFES*

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

Undergraduate Researcher Aug 2018 – Jul 2019
Advised by Prof. Renato Krohling *Bio-inspired Computing Lab (LABCIN), UFES*

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

SKILLS

Programming Languages	Python, C/C++, Java
Library & Tools	PyTorch, Keras, Numpy, pandas, Scikit-learn
Software	L ^A T _E X, Git, Linux
Languages	Portuguese (native), English (advanced)