

Leandro Stival

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Personal Information

- Nationality: Brazilian
- Languages: Portuguese (Native), English (Fluent), Dutch (Basic)
- Google Scholar: <https://scholar.google.com/citations?hl=en&user=Bw3dn34AAAAAJ>
- ORCID: <https://orcid.org/0000-0002-3379-6813>

Research Focus

Postdoctoral researcher in the field of artificial intelligence. My areas of expertise include time series analysis, foundation models, and multimodality in self-supervised learning. Completed a Ph.D. with a focus on video processing, colorization, generative models, and remote sensing applications. I am currently based at Wageningen University, where he is developing advanced machine learning approaches for multimodal data.

Education

- **Ph.D. in Computer Science**
University of Campinas (UNICAMP), Brazil
Area: Video processing, colorization, time series, remote sensing and generative models
August - 2021 – August - 2025
- **Master's in Technology**
University of Campinas (UNICAMP), Brazil
Research: Soccer analytics through graph theory and time series analysis
August - 2019 – February - 2021
- **Bachelor's in Information Systems**
Hermínio Ometto Foundation (UNIARARAS), Brazil
Focus: Information systems, data analysis, software development, and heuristic optimization
January - 2015 – December - 2018

Professional Experience

Software Engineering Experience, Industry

ESL Sistemas:
October-2015 –August-2021
Araras – Sao-Paulo – Brazil

- Contributed across software development lifecycle phases, including backlog management, help desk support, quality assurance testing, and building a knowledge base for best practices.

Postdoctoral Research

Wageningen University & Research (WUR):
September-2025 –Present
Wageningen – Gelderland – Netherlands

- Conducting postdoctoral research in computer science with a focus on multimodal and foundation models, combining strategic consulting and vision-based applications. Developing methodologies for remote sensing and time series analysis to advance climate and environmental studies.

Technical Skills

- **Programming Languages:** Python, SQL
- **Machine Learning:** Computer Vision, Generative Models, Self-supervised Learning
- **Tools and Libraries:** PyTorch, OpenCV, Sklearn
- **Project Management:** Zendesk, Git

Publications

1. L. Stival and H. Pedrini, "Survey on video colorization: Concepts, methods and applications," *Journal of Signal Processing Systems*, vol. 95, no. 6, pp. 679–702, 2023. DOI: 10.1007/s11265-023-02062-3
2. L. Stival et al., "Swinfvc: A swin flow video colorization example-based method," in *Proceedings of the 2023 International Conference on Machine Learning and Applications (ICMLA)*, IEEE, 2023, pp. 69–75. DOI: 10.1109/ICMLA58977.2023.00018
3. L. Stival et al., "Cavc: Cosine attention video colorization," in *Proceedings of the 2024 International Conference on Computer Graphics Theory and Applications (VISIGRAPP)*, vol. 3, SciTePress, 2024, pp. 385–392. DOI: 10.5220/0011999200003415
4. L. Stival et al., "Enhancing video colorization with deep learning: A comprehensive analysis of training loss functions," in *Intelligent Systems Conference*, Springer, 2024, pp. 496–509
5. L. Stival et al., "Video colorization based on a diffusion model implementation," in *Intelligent Systems Conference*, Springer, 2024, pp. 117–131
6. L. Stival et al., "Using machine learning pipeline to predict entry into the attack zone in football," *PloS one*, vol. 18, no. 1, e0265372, 2023
7. L. Stival et al., "Semantically-aware contrastive learning for multispectral remote sensing images," *ISPRS Journal of Photogrammetry and Remote Sensing*, vol. 223, pp. 173–187, 2025
8. L. Stival et al., "Cvc: Contrastive autoencoders for video colorization," in *Intelligent Systems Conference*, Springer, 2025, pp. 388–401

Publications - Under review

1. L. Stival et al., "Pixel-wise contrastive learning for satellite image time series," Under review in *IEEE Transactions on Geoscience and Remote Sensing (TGRS)*, 2025
2. L. Stival et al., "C-swinfvc: A cosine swin flow video colorization," in *Deep Learning Applications*, Under review, Taylor and Francis, 2024

Datasets

1. L. Stival, *Videvo*, 2023. DOI: 10.6084/M9.FIGSHARE.21766271.V1

References

- Dr. Hélio Pedrini, University of Campinas, Campinas, Brazil
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- Dr. Ricardo da Silva Torres, Wageningen University & Research, Wageningen, Netherlands
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- Dr. Ulisses Martins Dias, University of Campinas, Campinas, Brazil
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