

# CAIO SILVA

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<b>Education:</b>	<b>University of South Florida</b>	Ongoing
	PhD Degree, Computer Science	
	<b>University of South Florida</b>	Completed: December 2022
	Master Degree, Computer Science	
	<b>Federal University of Minas Gerais</b>	Completed: November 2019
	Master Degree, Computer Science	
	<b>Rose-Hulman Institute of Technology, Terre Haute, IN</b>	Completed: May 2015
	Bachelor, Computer Engineering	
	<b>Federal Technological University of Parana</b>	Completed: July 2018
	Bachelor, Computer Engineering	
<b>Skills:</b>	<b>Programming:</b> Python, Pytorch, Tensorflow, Keras, Jupyter, Scikit-Learn, Numpy <b>Languages:</b> Fluent English, Native Portuguese, Basic French, Basic Spanish <b>Areas:</b> Computer Vision, Machine Learning, Digital Image Processing, Software Engineering	
<b>Work Experience:</b>	<b>University of South Florida 01/06/2020 - Present</b> <ul style="list-style-type: none"><li>• Advisor: Sarkar, Sudeep</li><li>• Teacher Assistant and Research Assistant</li></ul> <b>Pattern Recognition and Earth Observation Laboratory (PATREO), Federal University of Minas Gerais 08/02/2017 - 12/07/2019</b> <ul style="list-style-type: none"><li>• Instructor: Santos, Jefersson A.</li><li>• Researcher in computer vision, focused on remote sensing images.</li></ul> <b>Geocontrole Project, Gesellschaft für Internationale Zusammenarbeit 08/02/2018 - 01/31/2019</b> <ul style="list-style-type: none"><li>• Instructor: Santos, Jefersson A.</li><li>• Automation of the detection of patterns of irregularities using of remote sensing images.</li></ul> <b>ExxonMobil 01/10/2017 - 08/16/2017</b> <ul style="list-style-type: none"><li>• High Performance Computing Research Intern</li></ul>	
<b>Bibliographical Production</b>	<b>Articles in Scientific Journals</b> NOGUEIRA, KEILLER ; L. S. MACHADO, GABRIEL ; H. T. GAMA, PEDRO ; C. V. da Silva, Caio ; BALANIUK, REMIS ; A. DOS SANTOS, JEFERSSON . <b>Facing Erosion Identification in Railway Lines Using Pixel-Wise Deep-Based Approaches</b> . Remote Sensing, v. 12, p. 739, 2020.  <b>Complete works published in proceedings of conferences</b> DA SILVA, CAIO C. V. ; NOGUEIRA, KEILLER ; OLIVEIRA, HUGO N. ; SANTOS, JEFERSSON A. DOS . <b>Towards Open-Set Semantic Segmentation Of Aerial Images</b> , 2020, Santiago. 2020 IEEE Latin American GRSS & ISPRS Remote Sensing Conference (LAGIRS), 2020. p. 16. NOGUEIRA, KEILLER ; CESAR, CAIO ; GAMA, PEDRO H. T. ; MACHADO, GABRIEL L. S. ; DOS SANTOS, JEFERSSON A. . <b>A Tool for Bridge Detection in Major Infrastructure Works Using Satellite Images</b> , 2019, São Bernardo do Campo. 2019 XV Workshop de Visão Computacional (WVC), 2019. p. 72. DE OLIVEIRA, MARCELO ; VIANA DA SILVA, CAIO CESAR ; BEZERRA DA SILVA, WYLLIAN ; JASINSKI, RICARDO ; PEDRONI, VOLNEI ANTONIO ; DE ALMEIDA PRADO POHL, ALEXANDRE. <b>Extraction of spatio-temporal features based on a hardware approach for a no-reference objective video quality metric</b> , 2016, Nara. 2016 IEEE International Symposium on Broadband Multimedia Systems and Broadcasting (BMSB), 2016. p. 1.	
<b>Honors:</b>	<b>Student Merit (2017):</b> Was chosen as the best student in Computer Engineering at UTFPR.  <b>Exchange Student (2014):</b> Studying Computer engineering in Rose-Hulman Institute of Technology. Participating in classes of Engineering and Computer Science, learning the basis of Artificial Intelligence.  <b>Young Talents to Science (2012-2013):</b> Program that allows the student to ingress in the research field, participating in laboratories and groups of study.	