LUÍS GUSTAVO P. CATTELAN

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EDUCATION

Masters in Artificial Intelligence   Sept 2021 – Feb 2022
Sapienza University of Rome - Erasmus semester   Rome, Italy

Bachelor in Physics   Mar 2020 –
Federal University of Santa Catarina   Florianópolis, Brazil

Bachelor in Astrophysics   Mar 2018 – Jan 2020
Federal University of Rio Grande do Sul   Porto Alegre, Brazil

WORK EXPERIENCE

Potsdam Institute for Climate Impact Research   Feb. 2022 – Apr, 2022
Research Intern   Potsdam, Germany

Federal University of Santa Catarina   Jun. 2020 – Sept 2021
Teaching Assistant of Physics 1   Florianópolis, Brazil

Sci-Five   Aug. 2019 – Jan 2020
Popularization and monitoring of science in social media   Porto Alegre, Brazil

Observatório Educativo Intinerante   June 2018 – Aug 2019
Astronomy outreach project   Porto Alegre, Brazil

PROJECTS AND RESEARCH

Impacts of AMOC colapse in Amazon Rainforest stability   Feb. 2022 – Current
Tipping Points in the Earth System

Resilience of tropical ecosystems   Jan 2021 – Current
Group for Interdisciplinary Environmental Studies (IpES)

History of Astronomical Observatories in Porto Alegre   2019
Research in History of Science

Meninas na Ciência   2019
Gender inequality in science
  - Volunteer

Akotirene Ciência   2019
Race inequality in science
  - Volunteer

CONFERENCES AND PRESENTATIONS

History of Astronomical Observatories in Porto Alegre   Sept 2020
National meeting on History of Physics   São Paulo, Brazil

Observatório Educativo Intinerante: 20 years of astronomical outreach   Sept 2020
National meeting of Brazilian Astronomical Society   São Paulo, Brazil

Honors and Scholarships

Erasmus+ ICM Scholarship	Sept 2021 - Feb 2022
Semester abroad in Sapienza University of Rome	Rome
Datathon-Poatek	Mar 2021
XCOVID: A transfer learning based COVID-19 lung x-ray classifier made into a WebApp	Poatek
Research Scholarship	Aug 2019 – Jan 2020
Outreach Scholarship	June 2018 – Aug 2019

Community Involvement

Computational Physics Group (GFC - UFRGS)	2020
Co-Founder. Undergraduate study group.	Porto Alegre, Brazil

Online Courses

Deep Learning for Remote Sensing Imaging	2021
National Institute for Space Research (INPE)	Brazil
Artificial intelligence and applications in physics	2021
Brazilian Center for Research in Physics(CBPF)	Brazil
Trustworthy Artificial Intelligence for Environmental Science (TAI4ES)	2021
National Center for Atmospheric Research (NCAR)	
Applied Data Science with Python Specialization	2021
University of Michigan	Coursera
Introduction to Complexity	2021
Santa Fe Institute	Complexity Explorer
Nonlinear Dynamics: Mathematical and Computational Approaches	2021
Santa Fe Institute	Complexity Explorer
Planetary Boundaries	2021
SDG Academy	edX
Introduction to Tropical Meteorology	2021
University Corporation for Atmospheric Research	MetEd
Global Warming I: The Science and Modeling of Climate Change	2020
University of Chicago	Coursera
Climate Change and Health: From Science to Action	2020
Yale University	Coursera
Ecology: Ecosystem Dynamics and Conservation	2020
American Museum of Natural History	Coursera
Data-driven Astronomy	2020
University of Sydney	Coursera
Climate Change From Learning to Action	2020
United Nations Institute for Training and Research	UN CC:Learn

Skills

Languages: Portuguese (Native), English (Fluent), Italian (B1), German (A2)
Programming: Python (NumPy, SciPy, Matplotlib, Pandas), C, Linux command line
Document Creation: Microsoft Office Suite, LaTex, Markdown