

Rodrigo Leonardo

SENIOR UNDERGRADUATE

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(502)5769-9592

EDUCATION	Universidad del Valle de Guatemala , Guatemala City BSc, Applied Mathematics GPA: 4.0 (Overall) 2016 - 2020 (<i>Expected</i>)
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RESEARCH INTERESTS PUBLICATIONS	Machine Learning, Harmonic Analysis, Quantitative Finance Leonardo, R. , Hu, A., Uzair, M., Lu, Q., Fu, I., Nishiyama, K., Subrahmannian, S. M., Ravichandran, D. (2019). Fusing Visual and Textual Information to Determine Content Safety. To appear in the conference proceedings of the IEEE ICMLA 2019.
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MOOCs	<ul style="list-style-type: none">- <i>Macroeconomic Accounts & Analysis</i>. International Monetary Fund 2018-19- <i>XSeries Program in Astrophysics</i>. Australian National University 2018-19- <i>Paradox and Infinity</i>. Massachusetts Institute of Technology 2018- <i>Finance for Everyone: Smart Tools for Decision-Making</i>. University of Michigan 2018- <i>Ethical Leadership: Character, Civility and Community</i>. Boston University 2016- <i>Introduction to Probability</i>. Massachusetts Institute of Technology 2016
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AWARDS & ACHIEVEMENTS	Among top 5 students regarding average score in the history of my faculty (54 years) 2016-19 Seven times medallist nationwide in Guatemala (top 3) 2011-18 At the <i>National Sciences Olympiad</i> , competing in the categories of Mathematics and Physics at college-level (3) and during high school (4). Winner of the <i>Francisco Nieves Medal</i> 2017 For the freshman with the best average score Selected to represent Guatemala at the <i>International Mathematical Olympiad</i> 2013-15 Couldn't participate due to lack of funding
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ACADEMIC PROJECTS	Researcher/Project Manager <i>IPAM, UCLA & GumGum Inc., Los Angeles, CA</i> Jun '19 - Aug '19 Participant of <i>Research in Industrial Projects for Students</i> , a summer program jointly sponsored by the <i>Institute for Pure and Applied Mathematics</i> (IPAM) and <i>GumGum Inc.</i> Responsibilities include: <ul style="list-style-type: none">- Research and development of Computer Vision and Natural Language Processing algorithms centered around content safety classification.- Design, development and integration of machine learning algorithms using a multimodal approach.- Leading the team on the training and evaluation of the models produced. - Presenting the research at both GumGum and IPAM.
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Student <i>Park City Mathematics Institute (PCMI), Park City, UT</i> Jul '19 Participant of the Undergraduate Summer School at PCMI, an intensive three-week-long program of the Institute for Advanced Study, Princeton. Took part in two classes: <ul style="list-style-type: none">- Introduction to Harmonic Analysis- Oscillations in Harmonic Analysis Member of the undergraduate research group led by Rafe Mazzeo, director of PCMI. Studied nodal domains and the Courant nodal domain theorem.	
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Chief Coordinator*First Annual Congress of Science Lectures, Guatemala City**Sep '18*

15 Guatemalan scientists and more than 300 students participated on a series of eight lectures during September 20-21 at Universidad del Valle de Guatemala.

EXPERIENCE**Professor***Colegio Internacional Montessori, Guatemala City**Sep '19 - Present*

- Teaching Math Honors and AP Calculus.

Teaching Assistant*Universidad del Valle de Guatemala, Guatemala City**Jan '17 - Dec '18*

For the following classes: Mathematical Logic, Ordinary Differential Equations, Multivariable Calculus, Elemental Geometry, Linear Algebra and Discrete Mathematics; a combined of more than 250 students.

SKILLS

Computer languages: Python, MATLAB, Java, RStudio, Mathematica, \LaTeX .

Languages: Spanish–Mother tongue, English–C2, French–A2.

REFERENCES

Dorval Carías– djcarias@uvg.edu.gt. Advisor and professor at *Universidad del Valle de Guatemala*.
Nancy Zurita– nazurita@uvg.edu.gt. Director of the Department of Mathematics at *Universidad del Valle de Guatemala*.