

CARLOS SALINAS

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EDUCATION

Purdue University, West Lafayette, IN <i>Master of Science in Mathematics</i>	Aug. 2020 GPA: 3.73/4.0
University of Texas–Pan American, Edinburg, TX <i>Bachelor of Science in Mathematics</i>	May 2014 GPA: 3.86/4.0

TECHNICAL SKILLS

Programming Languages: Python, Scheme, C/C++, R, JavaScript, Java, Matlab/Octave, SQL
AI Libraries/Frameworks: NumPy, Pandas, Scikit-Learn, Keras, Matplotlib
Developer Tools: Vim, Emacs, Git, Jupyter, GCC, Valgrind, Gradle
Other Software: Linux, LaTeX, Kramdown, Markdown, Jekyll, Bash, Awk
Natural Languages: English—native, Spanish—native, Russian—fluent, Persian—conversant, French—proficient

WORK EXPERIENCE

Department of Mathematics, Purdue University <i>Research Assistant/Teaching Assistant</i>	West Lafayette, IN Aug. 2014 – May 2020
<ul style="list-style-type: none">Led recitation for undergraduate courses, such as Calculus 1, 2, 3, Differential Equations, and Linear Algebra.Created course-related content for students, such as notes, quiz and midterm solutions, and performance statistics.Wrote code to study the finite quotients of triangle and nilpotent groups.	
School of Mathematical and Statistical Sciences, University of Texas–Pan American <i>Undergraduate Research Assistant/System Administrator</i>	Edinburg, TX Sep. 2013 – May 2014
<ul style="list-style-type: none">Managed the Experimental Algebra and Geometry Lab's Linux cluster, which included administering users, installing software, running services, and configuring the lab's GPU.Wrote an program to compute 2-special word families up to word-length 30 which leverage the existence of trace formulas to significantly reduce the search space. Published the sequence on the On-line Encyclopedia of Integer Sequences A237623.	
Department of Materials Science and Engineering, Massachusetts Institute of Technology <i>Undergraduate Research Assistant</i>	Cambridge, MA Jun. 2010 – Aug. 2010
<ul style="list-style-type: none">Tested heat-treated Ti-Ta alloys of varying compositions for shape-memory and superelastic properties by means of hot oil recovery test. Took metallographs of samples to study the microstructure. Performed of mechanical tests, such as tensile test, and fatigue tests, and recorded the results.	

OUTREACH EXPERIENCE

College of Agriculture, Purdue University <i>Academic Boot Camp for Purdue's Minority Engineering Program</i>	West Lafayette, IN Jun. 2018 – Aug. 2018
<ul style="list-style-type: none">Simulated a first semester Calculus experience for incoming undergraduate students in the MEP. Prepared and graded student homework and midterms. Assigned final letter grades and gave course recommendations.	
School of Mathematical and Statistical Sciences, University of Texas–Pan American <i>Outreach Assistant for the Experimental Algebra & Geometry Lab</i>	Edinburg, TX Sep. 2012 – May 2014
<ul style="list-style-type: none">Introduced K12 students in the Texas RGV to abstract mathematics, such as modular arithmetic, complex numbers, and spherical geometry through kinesthetic activities.	

WRITING & PROJECTS

[cdrlos.github.io](#) A small portfolio hosted on GitHub Pages. Currently under construction.
math.purdue.edu/~salinas University webpage. Mostly contains teaching material.