

# CARLOS SALINAS

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## EDUCATION

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

## TECHNICAL SKILLS

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

## WORK EXPERIENCE

<b>Department of Mathematics, Purdue University</b> <i>Research Assistant/Teaching Assistant</i>	West Lafayette, IN Aug. 2014 – May 2020
<ul style="list-style-type: none"><li>Led recitation for undergraduate courses, such as Calculus 1, 2, 3, Differential Equations, and Linear Algebra.</li><li>Hosted math related content for students on a personal university <a href="#">webpage</a>, such as notes, quiz and midterm solutions, performance statistics, and course related deadlines.</li><li>Wrote code to study the finite quotients of triangle and nilpotent groups.</li></ul>	
<b>School of Mathematical and Statistical Sciences, University of Texas–Pan American</b> <i>Undergraduate Research Assistant/System Administrator</i>	Edinburg, TX Sep. 2013 – May 2014
<ul style="list-style-type: none"><li>Managed the Experimental Algebra and Geometry Lab's Linux cluster, which included administering users and users' permissions, updating software, and configuring the lab's GPU.</li><li>Wrote an program to compute 2-special word families up to word-length 30 using trace formulas to significantly reduce the search space. Published the sequence on the On-line Encyclopedia of Integer Sequences <a href="#">A237623</a>.</li></ul>	

## OUTREACH EXPERIENCE

<b>College of Agriculture, Purdue University</b> <i>Academic Boot Camp for Purdue's Minority Engineering Program</i>	West Lafayette, IN Jun. 2018 – Aug. 2018
<ul style="list-style-type: none"><li>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.</li></ul>	
<b>School of Mathematical and Statistical Sciences, University of Texas–Pan American</b> <i>Outreach Assistant for the Experimental Algebra &amp; Geometry Lab</i>	Edinburg, TX Sep. 2012 – May 2014
<ul style="list-style-type: none"><li>Introduced K12 students in the Texas RGV to abstract mathematics, such as modular arithmetic, complex numbers, and spherical geometry through kinesthetic activities.</li></ul>	

## WRITING & PROJECTS