

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, 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

Department of Mathematics, Purdue University <i>Research Assistant/Teaching Assistant</i>	West Lafayette, IN Aug. 2014 – May 2020
School of Mathematical and Statistical Sciences, University of Texas–Pan American <i>Undergraduate Research Assistant/System Administrator</i>	Edinburg, TX Sep. 2013 – May 2014

• Led recitation for undergraduate courses, such as Calculus 1, 2, 3, Differential Equations, and Linear Algebra.

• Hosted math related content for students on a personal university [webpage](#), such as notes, quiz and midterm solutions, performance statistics, and course related deadlines.

• Wrote code to study the finite quotients of triangle and nilpotent groups.

• 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.

• Wrote a 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 [A237623](#).

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
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

• 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.

• Introduced K12 students in the Texas RGV to abstract mathematics, such as modular arithmetic, complex numbers, and spherical geometry through kinesthetic activities.

WRITING & PROJECTS