

Carlos Salinas

7507 Camelot Dr,
Mission, TX 78572
(765) 337-9606

cemiliosal@gmail.com, salinac@purdue.edu
github.com/cdrlos
linkedin.com/in/carlos-salinas-64588b160

EDUCATION

Purdue University, West Lafayette, IN

Master of Science in Mathematics

Aug. 2020

GPA: 3.73/4.0

University of Texas–Pan American, Edinburg, TX

Bachelor of Science in Mathematics

May 2014

GPA: 3.86/4.0

EXPERIENCE

Graduate Student/Teaching Assistant

Aug. 2014 – May 2020

Department of Mathematics at Purdue University, West Lafayette, IN

- Led two to three recitation sections per semester for undergraduate math courses, including Calculus 1, 2, 3, and Differential Equations/Linear Algebra.
- Graded homework, wrote quizzes, and proofread exams for several undergraduate courses, including Calculus 1, 2, 3, Differential Equations and PDEs for Engineering and the Sciences, and Advanced Mathematics for Physicists and Engineers.
- Created a university-hosted personal website to upload relevant course material such as quiz and homework solutions, recitation notes, and relevant course statistics using the Jekyll framework.
- Studied the zeta function associated to finite quotients of the finitely generated free nilpotent group.
- Wrote code in Sage to compute the asymptotic behavior of the number of finite quotients of a given index.

Undergraduate Research Assistant/System Administrator

Sep. 2013 – May 2014

Experimental Algebra & Geometry Lab at the University of Texas–Pan American, Edinburg, TX

- Maintained the lab's Fedora workstation cluster up to date and operational.
- Made accounts for other users with appropriate permissions.
- Configured the lab's Nvidia GPU for usage with Mathematica's CUDAlink and trained interested students how to use it.
- Operated the lab's 3D printer, updated its software, and kept it in shape for use in Dr. Lawton's outreach activities.

PROJECTS

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PRESENTATIONS

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SKILLS

Languages: Python, C, Matlab/Octave, R, Racket, Java

Frameworks: Jekyll, WordPress

Developer Tools: Git, Emacs, Vim, Eclipse

Python Libraries: pandas, NumPy, matplotlib, scikit-learn, Keras, NLTK, spaCy

R Libraries: tidyverse, tidymodels,forcats, shiny

Misc. Software: SQL (Postgre), LaTeX, Linux, Mathematica, Microsoft Office (Word, Excel, Outlook, PowerPoint)

Natural Languages: Spanish (Native), Russian (Fluent), Persian (Conversational), French (Proficient)