SAUL G. COVARRUBIAS

Applied Mathematician

@ saul.covarrubias@mavs.uta.edu   📞 +1-657-345-9998   📍 Arlington, Texas, USA
🔗 www.scovarrubias.webflow.io   in linkedin.com/in/scovarrubias   ⭘ github.com/saulcov

EXPERIENCE

Graduate Teaching Assistant
The University of Texas, Arlington

📅 Aug 2017 – Ongoing   📍 Arlington, TX

- As a GTA I instruct undergraduate students in various math course, as well as promote the use of modern technology in classrooms and group work. I encourage my students to look at a problem from multiple angles in order to understand the full scope of a problem.

Graduate Research Assistant
The University of Texas, Arlington

📅 Jun 2019 – Aug 2019   📍 Arlington, TX

- As a GRA I investigated modern methods for computing sparse solutions to non-convex optimization problems, with an emphasis on EEG/MEG source estimation, and compressed sensing.

PROJECTS

The EEG Inverse Problem
The University of Texas, Arlington
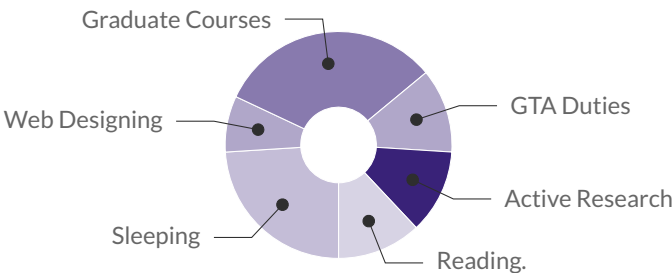
📅 Jun 2019 - Aug 2019   📍 Arlington, TX

- An in depth analysis of the EEG inverse problem formulation, understanding of a priori information, and an investigation into popular methods for solving the inverse problem under a prori information.

A Graph Model for Water Allocation
California State Polytechnic University, Pomona

📅 Sept 2016 - May 2017   📍 Pomona, CA

- An introductory analysis on water allocation rights in California, and simulations through the Drought Water Rights Allocation Tool.

A DAY OF MY LIFE

Graduate Courses · Web Designing · Sleeping · Reading. · Active Research · GTA Duties

MY LIFE PHILOSOPHY

"When we cannot use the compass of mathematics or the torch of experience…it is certain we cannot take a single step forward." - Voltaire

MOST PROUD OF

🏆 **First Generation College Graduate**
The first in my family to graduate with a B.Sc, and to attend a Ph.D. program.

💗 **SIAM President**
Currently serving as president of the SIAM chapter at the University of Texas, Arlington.

STRENGTHS

Convex Optimization   Combinatorics
Probability & Statistics
Tensor Calculus

MATLAB®   Julia   Python   Java
Bash   LaTeX

LANGUAGES

English   ●●●●●

Spanish   ●●●●○

EDUCATION

Interdisciplinary Ph.D. in Mathematics and Computer Science
The University of Texas, Arlington

📅 Aug 2017 - Ongoing

B.Sc. in Applied Mathematics
California State Polytechnic University, Pomona

📅 Sep 2013 - Jun 2017