SAUL G. COVARRUBIAS

Applied Mathematician

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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

Image: 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.

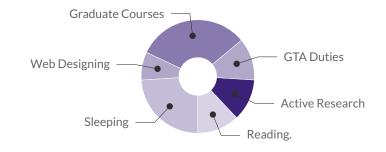
A Graph Model for Water Allocation California State Polytechnic University, Pomona

May 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



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 PT-X Bash

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