

# Luis Francisco Zuniga

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## Education

### Olin College of Engineering, Needham, MA

*Bachelor of Science - Engineering*

December 2023

- Relevant Coursework: Fundamentals of Robotics, Fundamentals of Computer Science, Data Science, Software Design, Databases

### South Texas College, McAllen, TX

*Associates of Science - Mathematics*

May 2022

- Relevant Coursework: Calculus I,II, & III, Statistics

## Skills

*Software:* Adobe Creative Suite, Microsoft Office Suite, DaVinci Resolve, LightWorks, Audacity, GIMP, darktable, Blender 3D, Meshroom, and Meshlab

*Programming:* C/C++ (including SQLite), Python (including PANDAS, TensorFlow, Flask), Google Colab, OCaml, LaTeX, JavaScript, HTML, SageMath, MATLAB, and Mathematica

## Experience

### Mathnasium Instructor

Sept 2019 - Dec 2019 & March 2022 - Present

- Tutor students in K-12 and college level mathematics, including statistics and cal 1-3
- Maintain a collaborative attitude to co-teach with other tutors and build rapport with students
- Support fellow tutors through organization of physical and online workspaces and desktools

### Twilio-Olin Senior Capstone

Aug 2020 - May 2021

- Conduct user oriented research into the space of disaster response organizations, including Red Cross and World Central Kitchen
- Leverage Twilio Quick Deploy, Studio, Autopilot, and Flex to create a one-click deployable pre-trained chatbot designed based on user need
- Write blog post for Twilio developer blog on design and deployment of project
- Design and present PowerPoint & poster of findings and proposed solution
- <https://www.olin.edu/research/2020-21/Twilio>

### Olin College IPF Grant Intern

May 2019 - Dec 2021

Engineers' Conductorless Orchestra Hub Web Project

- Design an intuitive website layout to guide users
- Code working prototype using HTML, JavaScript and CSS that was later ported to the OpenScholar infrastructure
- Coordinate the acquisition of necessary sound and video files
- <https://pages.olin.edu/eco-summer2019>

### Scaredy Plant Robot Project

Aug 2018 - Dec 2018

- Design and produce robot through iterative 2-week sprints
- Build light and sound sensor array alongside code to triangulate direction of brightest light and loudest sound
- Utilize Arduino Mega as system brain
- [http://pie.olin.edu/2018/The\\_Scaredy\\_Plants/](http://pie.olin.edu/2018/The_Scaredy_Plants/)

### Olin Office of Post Graduate Planning Student Intern

Sept 2017 - May 2019

- Update Jenzebar spreadsheets of student and alum information
- Design and distributed event flyers in Adobe Photoshop & Illustrator
- Network alum with other PGP resources and company contacts
- Edit video series about computer science at Olin College in Adobe Premiere Pro

## Additional Activities

### Olin Conductorless Orchestra Videographer/Editor

Fall 2017 - March 2022

- Record hour long performances 6 times a year using DSLR/Mirrorless camera and Field Recorder
- Edit audio with Adobe Audition/Audacity for clarity of instruments
- Edit video using Adobe Premiere Pro for posting on Olin College YouTube channel

### Amateur Photography

Fall 2018 - Present

- Photographer for volunteer award event and children's summer camp at Quinta Mazatlan World Birding Center
- Film photography of Suburban North Adams, MA and Digital photography of McAllen, TX birds
- Examples on Instagram: @luis\_f.zuniga

### 3D Scanning

Fall 2020 - Present

- Generate 3D models of objects and physical spaces (Meshroom and Regard 3D)
- Remesh pointclouds using MeshLab & render models in Blender 3D
- Examples on Instagram: @luis\_f.zuniga