

# ALEXIS CASAS

@ E-mail: [aicasas@dons.usfca.edu](mailto:aicasas@dons.usfca.edu) Phone: (669) 271-9505 San Francisco, CA  
in <https://www.linkedin.com/in/alexis-casas-800b2013b/> Blog <https://github.com/aicasas>

## EXPERIENCE

### Business Analytics Research Assistant

Business Department, University of San Francisco

Aug 2019 – May 2020 San Francisco, CA

- Supervised by Professor Shivani Shukla, Dr. Mouwafac Sidaoui.
- Created academic research presentations for conferences.
- Worked with google APIS and generated transit models in python.
- Assisted in drafting papers for publication in LaTeX.

### Physics and Astronomy Department Assistant, University of San Francisco

Physics Tutor, Teacher Assistant

Jan 2019 – May 2020 San Francisco, CA

- Guided weekly tutoring sessions for Methods of Mathematical Physics and Introduction to Physics.
- Transformed students' understanding of material.
- Developed and enhanced students' analytical techniques.
- Analyzed and reviewed department lecture material, homework solutions and exams before released to students.

## AWARDS

2019-2020 Sigma Pi Sigma  
2018-2020 Clare Boothe Luce Scholar  
2019-2020 Women in Physics, Communications Chair

## RELEVANT COURSES

Quantitative Business Analysis Data Visualization  
Business Statistics Special Topics in R Computational Physics  
Analytical Mechanics Methods of Mathematical Physics  
Calculus I, II, III Macro and Micro Economics  
Financial Accounting Digital Electronics Electromagnetism  
Quantum Mechanics Optics

## REFERENCES

- Shivani Shukla, Analytics Professor at University of San Francisco  
[sgshukla@usfca.edu](mailto:sgshukla@usfca.edu) | (413) 695-4900
- Milka Nikolic, Physics Professor at University of San Francisco  
[mnikolic@usfca.edu](mailto:mnikolic@usfca.edu) | (415) 422-4947
- Sophie Lin, Owner/Manager of Odenyaki Bistro (San Jose, CA)  
[odenyaki@gmail.com](mailto:odenyaki@gmail.com) | (408) 886-8742 [Prefers Text]

## EDUCATION

### BS in Physics, Minor in Physics Engineering

University of San Francisco

2016 – 2020 San Francisco, CA

Professors: Dr. Brandon Brown • Prof. Milka Nikolic • Prof. Aparna Venkatesan • Prof. Thomas Böttger

### Minor in Business Analytics

University of San Francisco

2016 – 2020 San Francisco, CA

Professors: Prof. Shivani Shukla • Dr. Mouwafac Sidaoui

## PROGRAMMING SKILLS

Python  
Matplotlib, Numpy, Scipy  
R  
Tableau  
FPGA  
LaTeX & Markdown  
HTML  
SQL

## TECHNICAL SKILLS

Machine Learning Gaussian Processes  
Regression Classification  
Computational Physics Time Series  
Linear Algebra  
Quantum and Classical Mechanics  
Differential Equations Web Scraping

## SOFTSKILLS

Rapid Learner Professional  
Hard-Working Dependable  
Meticulous to Detail Responsible  
Team Oriented Cooperative

## LANGUAGES

English  
Spanish