

# Anya Bouzida

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## RESEARCH EXPERIENCE

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### Healthcare Robotics Lab – UCSD

*PhD Student*

**Sept. 2021 – Present**

*Undergraduate Student Researcher*

**Dec. 2019 – Sept. 2021**

*San Diego, CA*

- Conducted research within the Dementia Care Community to study how robotics technology should be designed for people with dementia and their caregivers in order to best assist them
  - Engaged stakeholders in co-design sessions where a design probe (SpoonBot) was evaluated for its potential ability to aid people with late stage dementia during mealtimes
- Edited database design and enabled data transfer
  - Refined database schema to store longitudinal interaction and preference data
  - Facilitated translation of data from robot to database
  - Explored quantitative representations of human-robot interaction data

## PUBLICATIONS

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Guan, C., **Bouzida, A.**, Oncy-Avila, R., Moharana, S., and Riek, L.D. "Taking an (Embodied) Cue From Community Health: Designing Dementia Caregiver Support Technology to Advance Health Equity". Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems, CHI '21. pp. 1-24. [Acceptance rate: 26.3%]

## LEADERSHIP EXPERIENCE

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### Instructional Assistant - Introduction to Machine Learning II

**March 2021 – June 2021**

**UCSD Cognitive Science**

*San Diego, CA*

- Guided student final project groups and led group meetings where we solidified the team's research topic, methods, and goals
  - Helped students understand course material necessary to have a successful project
- Held weekly discussions where I went over the previous lecture's topics, and answered questions
- Held weekly office hours where I answered student questions regarding course materials and concepts
- Graded assignments and final projects

### Vice President, Tau Sigma Transfer Honors Society

**Jan. 2020 – June 2021**

**UCSD Chapter**

*San Diego, CA*

- Organized leadership groups, and assigned tasks to leadership members
- Organized community events with local chapter members
- Created themes, and organized slide presentations for bi-weekly General Body Meetings

## NOTEWORTHY PROJECTS

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- **Reinforcement Learning for 2048:** Created an RL environment of the game 2048, and implemented SARSA and n-step SARSA
- **Social Determinants of Health Predictor:** MLP Regressor used to predict hospital discharge rates given social factors
- **Sports Betting Predictive Model:** Visualization and analytics, implemented a logistic regression model to predict game outcomes
- **Raspberry Pi IP Camera:** Streamed camera input to IP address using FFMPEG

## EDUCATION

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### University of California, San Diego (UCSD)

*PhD in Computer Science and Engineering*

**Sept. 2021 - Present**

*San Diego, CA*

### University of California, San Diego (UCSD)

*BS in Cognitive Science specializing in Machine Learning & Neural Computation*

*Minor in Computer Science and Engineering*

- Summa Cum Laude | 3.97 Overall GPA

**Sept. 2019 - June, 2021**

*San Diego, CA*

### MiraCosta Community College

*A.A in Liberal Arts – Math and Sciences*

- 3.76 Overall GPA

**August 2017 - May 2019**

*San Diego, CA*

## SKILLS & INTERESTS

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- **Programming Languages:** Python, C, C++, Java
- **Python Libraries and DL Frameworks:** NumPy, Pandas, Scikit-learn, Matplotlib, seaborn, TensorFlow, and PyTorch
- **Mathematics of Machine Learning:** Vector Calculus, Linear Algebra, Probability, Statistics
- **Machine Learning Domains:** Unsupervised Learning, Supervised Learning, Reinforcement Learning
- **Environments:** Linux & UNIX, Git/GitHub Version Control
- **Spoken Languages:** English, French

## AWARDS & HONORS

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Provost Honors, UCSD

Fall 2019, Winter 2020, Spring 2020,  
Fall 2021, Winter 2021

President's Permanent Honor Roll, MiraCosta College

Spring 2019

President's List, MiraCosta College

Winter 2017, Spring 2018, Spring 2019