Alejandro Medina

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EDUCATION

Bachelor of Science in Computer Science   expected May 2024
Southwestern University, Georgetown, TX
- GPA 3.9, Paideia with Distinction
- Minors in Mathematics and Data Science
- Member: Hispanics and Latinx Organization (HALO), Computer Science Club, Math Club, Honor Code Council, University Committee on Discipline

LEADERSHIP ACTIVITIES

Honor Code Council – Southwestern University, Georgetown, TX   August 2022 – Present
- Conduct Honor Code presentation to incoming first-year students
- Serve on Honor Code Council Hearings for alleged violations
- Promote member growth of the Honor Code Council
- Vice President (2023 – Present), Education Committee Chair (2022)

The Locker Club, Georgetown, TX   August 2020 – Present
- Help supply kids in need throughout the community
- Run multiple community fundraisers in a leadership position
- President (2020), Trustee (2021 – Present)

WORK EXPERIENCE

SCOPE Undergraduate Research | **Southwestern University**, Georgetown, TX   Summer 2022
- Collaborated on research in the field of Artificial Intelligence with professor and two other students
- Investigated how quality diversity algorithms could be used to generate flying machines in Minecraft
- Work on writing up results for publication in a peer reviewed venue in near future is ongoing

Independent Undergraduate Research | **Southwestern University**, Georgetown, TX   Spring 2022
- Investigated questions of sincerity in cooperative polls, collaborating with a professor and one other student such as Doodle Polls
- Used NumPy and Pandas to process results from human subjects study
- Co-authored "Prioritizing Self, Team, or Job: Trends in Sincerity in Cooperative Polls"
- Presented research results at International Conference on Cooperative Design, Visualization, and Engineering

Computer Programmer Intern | **APIMasters Technologies**, Cedar Park, TX   Summer 2021
- Worked and trained with professional software engineers in areas related to software development, testing, and communicating with clients
- Tested applications being developed for clients and presented errors or new ideas in meetings
- Created small applications and/or websites for clients

PUBLICATIONS
- B. Anthony, A. Medina, M. Mueller, "Prioritizing Self, Team, or Job: Trends in Sincerity in Cooperative Polls", International Conference on Cooperative Design, Visualization, and Engineering, 2022.

PRESENTATIONS

Conference Research Presentations
- "Prioritizing Self, Team, or Job: Trends in Sincerity in Cooperative Polls." Presented at 19th International Conference on Cooperative Design, Visualization and Engineering virtually in September 2022.

University Presentations | **Southwestern University**, Georgetown, TX
- "Cooperative Polls & Flying Machines." President's Appreciation Celebration. Presented to university donors, board members, alumni, faculty, and partners. October 2022.
- "Using Quality Diversity to Generate Flying Machines in Minecraft." High Impact Experiences Celebration. Presented to staff, faculty, and students. September 2022.
- "Interactive Evolution of Novel Shapes in Minecraft." High Impact Experiences Celebration. Presented to staff, faculty, and students. September 2022.
- "Prioritizing Self, Team, or Job: Trends in Sincerity in Cooperative Polls." 403 Lecture. Presented to Math/CS Department professors and students. September 2022.
- "Generating Structures with AI in Minecraft" Summer Collaborative Opportunities and Experiences (SCOPE) end of summer presentations. Presented to fellow summer researchers (professors and students). July 2022.
- "Prioritizing Self, Team, or Job: Trends in Sincerity in Cooperative Polls." Research & Creative Works Symposium. Presented to staff, faculty, students, and donors. April 2022.

PROFESSIONAL DEVELOPMENT

Hispanic Association of Colleges and Universities (HACU) 36th Annual ¡Adelante! Leadership Institute in San Diego, CA, October 8th-10th, 2022.
- Sponsored by Southwestern University to represent the university as a top Latino Leader (only 5 students selected).
- Attended workshops related to networking, public speaking, leadership training, community building, and other career/personal development areas.

AWARDS & HONORS

King Creativity Scholar (Fall 2022)
- King Creativity Scholars are Southwestern University undergraduate students who have been accepted to receive funding for student-designed research projects.

SCOPE Research Scholar (Summer 2022)
- SCOPE Research Scholars are Southwestern University undergraduate students who have been accepted to perform research with faculty on faculty-designed research projects.

Dean's List (Fall 2021, Spring 2022)
- Students named to this list are recognized for their academic achievements and excellence.

Jack Frost Citizen of the Month (May 2021)
- The Jack Frost Citizen of the Month Award is given to high school seniors who exemplify excellence in academics, extracurricular, and volunteering.

Rotary Scholar (November 2020)
- This award is presented to students in the Top 5% of their graduating class.

SKILLS & INTERESTS

Technical: Java, Python, Maven, JUnit, Eclipse, VSCode, Git, HTML5, CSS, PHP, JavaScript, SQL, NASM x86 Assembly, LaTeX
Musical instruments: violin
Sports: soccer, track & field
Languages: Spanish (Fluent), English (Fluent)