

Kaitlynn T. Pineda

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EDUCATION

Johns Hopkins University, Baltimore, MD
PhD Student in Computer Science

August 2021 – Present

Yale University, New Haven, CT
Bachelor of Science in Electrical Engineering and Computer Science

August 2017 – May 2021

RESEARCH EXPERIENCE

Yale Social Robotics Lab, New Haven, CT
STARS I / STARS II Research Intern

May 2018 – July 2018, August 2019 - Present

- Designed experimental structure to analyze the human sense of fairness and trust in robots
- Programmed a video game interface through Unity for participant interaction
- Designed a project to detect human uncertainty for task completions in Human-Robot Interaction settings
- Developer on the Yale **Robots for Good** project that helps children fight social isolation during COVID-19
- Conducted behavioral analysis of children with ASD using a long-term, in-home socially assistive robot
- Fully funded for four semesters and a summer of academic research via the STARS II program
- Presented at the 2021 STARS II Symposium and the 2021 Pauli Murray College Mellon Forum
- Presented at the 2018 STARS I Summer Symposium and the 2018 Yale Undergraduate Research Symposium

Université catholique de Louvain, Louvain-la-Neuve, Belgium
Research Intern

May 2019 – July 2019

- Worked with convolutional neural networks (CNNs) for biomedical image segmentation
- Trained an autoencoder to capture the morphological structure of the segmentation labels
- Regularized the CNN-based segmentation model based on the decoder learned from the priors

WORK EXPERIENCE

Facebook, Menlo Park, CA

June 2020 – August 2020

(FAIAR) Software Engineering Intern

- On the AI Applied Research – Conversational AI team working on dialog policy for a future product
- Developed internal testing tools for android and web-based platforms

(Oculus) Software Engineering Intern

June 2021 – August 2021

- On the Planck Length team within Facebook Reality Labs creating a pipeline to facilitate synthetic data generation
- Developed internal visualization tools for the verification of proposed algorithms

TEACHING EXPERIENCE

Computer Science Undergraduate Learning Assistant, New Haven, CT
CPSC 223 Data Structures ULA

January 2020 – May 2020

- Held evening office hours to assist students with their programming problem sets
- Attended weekly staff meetings with the course instructor and other ULAs to discuss course material

Science and Quantitative Reasoning Tutoring Program, New Haven, CT
CPSC 223 Data Structures Peer Tutor

November 2020 – Present

- Held 1-1 tutoring sessions with students to review course concepts and prepare for exams

PUBLICATIONS

N. Tsoi, J. Connolly, E. Adéniran, A. Hansen, **K. T. Pineda**, T. Adamson, S. Thompson, R. Ramnauth, M. Vázquez, & B. Scassellati. (2021). *Challenges Deploying Robots During a Pandemic: An Effort to Fight Social Isolation Among Children*. In Proceedings of the 2021 ACM/IEEE International Conference on Human-Robot Interaction (HRI '21). March 8–11, 2021, Boulder, CO, USA.

PROFESSIONAL MEMBERSHIPS AND DEVELOPMENT

Científico Latino Graduate Student Mentorship Initiative (GSMI) *August 2020 – Present*

- Mentorship program to help underrepresented students apply to graduate school through application preparation materials, one-on-one guidance, webinars, and mock-interviews

AWARDS

Science, Technology and Research Scholars (STARS) II Program *October 2019 – Present*

- Yale College fellowship program that supports underrepresented minority students in their professional and academic development during their final two years of undergraduate studies
- The program supports students through financial support for research, mentorship, and professional development workshops

Alan S. Tetelman 1958 Fellowship for International Research in the Sciences *May 2019 - July 2019*

- Yale College fellowship program that provides support for original undergraduate research projects abroad in the natural and applied sciences

Science, Technology and Research Scholars (STARS) I Summer Program *May 2018 - July 2018*

- Yale College fellowship program that supports first or second-year underrepresented minority students in their summer research
- The STARS I Summer program provides a stipend and scientific communication development through the class, *Scientific Research: Process and Presentation*, taken concurrently

Science, Technology and Research Scholars (STARS) I Program *September 2017 - May 2018*

- Yale College program that establishes community among students of color in STEM and supports first-year underrepresented minorities in STEM fields through workshops and a peer mentorship program

COMMUNITY ENGAGEMENT

Yale Computer Science Departmental Student Advisory Committee, New Haven, CT

DSAC Board Member *January 2020 - May 2020*

- Yale CS student representative to the faculty and administration
- Held meetings with the Director of Undergraduate Studies and Department Chair during the academic year, and planned events for CS students

Yale Society of Women Engineers, New Haven, CT

Vice President *August 2019 – May 2020*

- Organized professional development and community events for undergraduate women in engineering

Languages: English (Fluent), Spanish (Fluent)

Skills: Python, C, C++, Java, MATLAB, R, TensorFlow, Keras, ROS, Unity, CAD, Adobe Photoshop, Illustrator, Verilog