

Lux Miranda

she/they

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CV current as of 7 June 2023



Education

- 2022-2027 (expected) PhD in Computer Science
✦ **Uppsala University**, Sweden, European Union
✦ Defense expected May 2027
- 2020-2022 Master of Science in Industrial Engineering
✦ **University of Central Florida** (UCF), Orlando, Florida, USA
✦ Honorary **10,000th master's degree** conferred by the college
✦ **Thesis**: *Humans in algorithms, algorithms in humans: Understanding cooperation and creating social AI with causal generative models*
- 2016-2020 Bachelor of Science with University Honors, double-major in Computational Mathematics and Computer Science, minor in Anthropology, *Cum Laude*
✦ **Utah State University** (USU), Logan, Utah, USA
✦ **Honors thesis**: *Computationally revealing recurrent social formations and their evolutionary trajectories*

Research experience

- August 2022 - Present Doctoral student, **Uppsala Social Robotics Lab**. Studying the ethics and diversification of robot and user identity, expansive mind/body spaces, and their relation to AI alignment.
- Summer 2022 PIBBSS Summer Research Fellow. Awarded the \$9,000 USD **Principles of Intelligent Behavior in Biological and Social Systems** (PIBBSS) summer research fellowship to conduct research on **human-aligned AI systems**.
- August 2020 - May 2022 (4 semesters) Graduate Research Assistant. *University of Central Florida Human-Centered Artificial Intelligence Research Laboratory & Complex Adaptive Systems Laboratory*. Contributed to the publication of three journal articles, one conference paper, and my master's thesis.
- August 2019 - August 2020 (1 year) Undergraduate Research Assistant. *Utah State University Anthropology Program*. As part of an international archaeological working group known as **PEOPLE 3000**, I helped to create and manage a new **radiocarbon database** larger and more complete than any other. I also worked to program and test an online social experiment studying cooperation in a common-pool resource management scenario.
- Summer 2019 Peak Summer Research Fellow. *Utah State University*. One of ten recipients awarded the \$4,000 USD **Peak Summer Research Fellowship** for highly-engaged undergraduate researchers to conduct work on a proposed project over the summer. The research conducted under this fellowship produced my first publication, listed above.
- Summer 2018 NASA Space Grant Consortium Fellow. Awarded a \$1,600 USD **NASA space grant fellowship** to continue work on a CubeSat mission as the software team leader for the USU Get Away Special Microgravity Research team. Managed a team of ten other programmers. Wrote software for a prototype platform that successfully served over a dozen high-altitude balloon flights. The project (**GASPACS**) was the world's first CubeSat developed entirely by undergraduate students. It successfully served its mission after being launched to the International Space Station as part of the **SpaceX CRS-24** mission and deployed into low Earth orbit on 26 January 2022.

Teaching experience

- August 2022 - Present Teaching Assistant. *Uppsala University*. Serving as a TA for courses in AI, social robotics, and system design.
- August 2020 - May 2022 (4 semesters) Graduate Teaching Assistant. *University of Central Florida Complex Adaptive Systems Laboratory*. Assisted in teaching, grading, and holding office hours for master's-level courses in data mining, cloud computing, and statistical analysis. 1/3

- January 2018 - Assistant Lecturer / Recitation Instructor. *Utah State University Department of Mathematics and Statistics*. Created and gave original lectures for the Differential Equations and Linear Algebra course at USU. Held office hours, created numerous course materials, designed exam questions, and used Python to create an automated tool for online assessment creation which continued to be used by the department after my departure.
- May 2019 (3 semesters)
- August 2016 - Computer Science Tutor. *Utah State University Department of Computer Science*. Tutored students in introductory computer science courses. Primarily assisted with homework concepts and code debugging.
- May 2017 (2 semesters)

Admin experience

- Fall 2022 - PhD Student Representative. **Uppsala University Vi3 Division**. Representing all PhD students within the human-machine interaction unit in division-wide decisions (US equivalent: representing a department within a college).
- Present

Industry experience

- May 2017 - Embedded Engineering Assistant. **Space Dynamics Laboratory**, Logan, Utah, USA. Developed embedded software for intelligent autonomous systems in C++. Built a technology demo showcasing a multi-agent platform which toured the USA to help garner funding. Developed, documented, and standardized methods for in-house Linux distribution management that continued to be used after my departure.
- October 2017 (6 months)

Scholarships

- November 2021 - PAGES Data Stewardship Scholarship. Received a \$4,400 USD scholarship from PAGES (Past Global Changes) to continue stewardship work on the **p3k14c archaeological radiocarbon database** as part of the PEOPLE 3,000 working group.
- August 2022 (8 months)
- Summer 2018 Honors Study Abroad Scholarship. Received a \$1,000 USD scholarship from the **USU Honors Program** used towards a semester studying historical European art and theatre in Italy, Switzerland, France, and the UK.
- 2016-2020 (4 years) Daniels Scholarship. Received the full-ride **Daniels Scholarship** (final award amount: \$58,100 USD) to attend any four-year Bachelor's program in the USA for demonstrating exceptional leadership ability, strength of character, and commitment to community betterment. To maintain the scholarship, I was required to strictly keep the Daniels Scholar Code of Conduct which entailed working a paid position for at least ten hours per week during the semester, following all local laws, being involved in community betterment, and maintaining good academic standing.

Awards

- May 2022 Honorary 10,000th Master's Degree conferred by the UCF College of Engineering and Computer Science. **Awarded for my accomplishments at UCF** via faculty nomination.
- April 2022 Best 2021 Paper within the Human-Centered Artificial Intelligence Research Laboratory. Awarded by the lab director for my **publication in SBP-BRiMS 2021**.
- July 2021 Best Human-Autonomy Teaming Paper. Awarded by the *Social, Cultural, and Behavioral Modeling (SBP-BRiMS) 2021* conference for my **submission**.

Selected talks

- 31 May 2023 *Let's get better at robot identity!* Invited talk, **Mines Interactive Robotics Research** Summer Speaker Series. Presented virtually to a live audience in Golden, Colorado, USA
- 14 March 2023 Examining the state of robot identity - Poster presentation. *ACM/IEEE International Conference on Human-Robot Interaction*, Stockholm, Sweden
- 06 December 2022 Interactive exhibit: What does it mean to ascribe identity to robots? *HRI Winterschool on Embodied AI 2022*, Ghent University, Belgium