

ANASTASIA S. APEIRON

Utrecht, Netherlands
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EDUCATION

Utrecht University

October 2023 - Present

PhD in Information and Computing Sciences
Department of Information and Computing Sciences
Thesis: *Responsible Autonomy for Hybrid Intelligence*

Uppsala University

August 2021 - June 2023

Masters in Human-Computer Interaction
Departments of Informatics and Media, and Information Technology
Thesis: *Behavioural Observations as Objective Measures of Trust in Child-Robot Interaction: Mutual Gaze*

Simon Fraser University

2016 - 2021

Bachelors in Cognitive Science
Departments of Computer Science, Philosophy, Linguistics, and Psychology
Certificate in the Methodology of Science
Departments of Philosophy and Mathematics

RESEARCH EXPERIENCE

Hybrid Intelligence Centre

Utrecht, Netherlands

Utrecht University

October 2023 - Present

Supervised by Dr. Pinar Yolum and Dr. Pradeep Murukannaiah
Jointly supervised under Utrecht University and TU Delft for my doctoral degree, I am investigating the definition, implementation, and management of consent for human-AI hybrid systems. The trajectory of this project entails several user studies and the development of a functional library for forthcoming research in the field of hybrid intelligence.

Uppsala Social Robotics Lab

Uppsala, Sweden

Uppsala University

October 2021 - June 2023

Supervised by Dr. Ginevra Castellano and Natalia Calvo-Barajas
While working as a volunteer, my task was to collect data through interviewing 52 children (ages 7-10) to determine if lexical alignment is an objective measure of trust in child-robot interaction. This also included setting up the environment, leading each interview activity, and assisting the final disclosure activity.
As a part of my internship at USRL (August 2022 - November 2022), my tasks included analysing the gathered data. This includes data annotation, data extraction, designing coding schemes, and data transcriptions. In addition to a quantitative analysis, I utilised my background in psychology and affective computing to extract features that could be analysed in a qualitative analysis.
As a part of lab activities alongside my duties, I have assisted other PhD students in data collection involving children, and in designing online studies.

RESEARCH EXPERIENCE (CONTINUED)

Robots with Social Intelligence and Empathy Lab

Simon Fraser University

Vancouver, Canada

February 2019 - April 2021

Supervised by Dr. Angelica Lim and Dr. Eldon Yellowhorn

The Blackfoot Revitalization project aims to create the environment and opportunity for students to learn Blackfoot and other indigenous languages through utilising the Pepper robot as an instructor.

My task was to design a reliable and effective method of teaching Blackfoot and to assist in the linguistic transcriptions and subsequent application to Pepper.

In the lesson development, I utilised my background knowledge in language education and second language acquisition along with several months of literature mining.

The linguistic transcriptions relied on my prior education in linguistics and computer science to produce machine-readable Blackfoot transcribed from local elders.

The contributions detailed above have helped expand this project to include the Cree language as well.

Robots with Social Intelligence and Empathy Lab

Simon Fraser University

Vancouver, Canada

November 2018 - February 2019

Supervised by Dr. Angelica Lim

Private research done in conjunction with several PhD students on the use of machine learning to aid the development of organizational software to aid in an efficient and sustainable shopping experience.

My task in this project was to help set up the laboratory environment for experimental surveys and in the design of software implementation of this project.

Department of Philosophy

Simon Fraser University

Vancouver, Canada

August 2018 - November 2018

Supervised by Dr. Nicolas Fillion

Literature review and research done in the field of mathematical and axiomatic logic.

My task in this project was to conduct literature mining in the epistemological success of mathematics.

ACHIEVEMENTS

1. Elected as **Program Representative for 2022-2023** in the Masters in Human-Computer Interaction
2. Elected as **Program Representative for 2021-2022** in the Masters in Human-Computer Interaction
3. Received **Athena Pathways Scholarship for Women in STEM 2020** as a part of CMPT 419: Special Topics in Artificial Intelligence
4. Elected as Autonomy Team Lead in **Team Guardian Unmanned Aerial Vehicle SFU** to plan, execute, and mediate technical and administrative projects **2019 - 2020**
5. Elected as President of the **SFU Linguistics Student Union** to carry out planning and execution of various events, advocating for curriculum changes, and representing the undergraduate Linguistics student body **2018**
6. Elected as Vice President of the **SFU Linguistics Student Union** to carry out administrative tasks such as taking minutes of weekly meetings and organising union events **2017 - 2018**

TECHNICAL EXPERIENCE

Languages: **Python 2.7, Python 3, C/C++17, Haskell, PHP, HTML/CSS/JavaScript**

Tools: **PRAAT, ELAN, Choreographe, FurHat SDK**

Operating Systems: **Windows, Linux (Ubuntu 16.04/18.04, Archlinux, Gentoo)**

RELEVANT COURSES

Technical Sciences

Affective Computing, Analytical Logic, Artificial Intelligence, Calculus, Discrete Mathematics, Formal Methods, Functional Programming, Measuring and Analysing User Experience, Object Oriented Programming, Physics, Social Robotics and Human-Robot Interaction

Social Sciences

Cognitive Sciences, Conceptual Truths, Consciousness, Epistemology, Metaphysics, Philosophy of Mathematics, Philosophy of Science, Phonetics, Phonology, Psychology, Research Methods, Scientific Methods, Semantics, Syntax

MISCELLANEOUS

During my down-time, I like to play my electric bass guitar and write. In addition to English, I speak Spanish at a B1 level of fluency and thoroughly enjoy learning different languages. I also enjoy photography, crochet, and studying theoretical mathematics in my spare time.

REFERENCES

Prof. Dr. Pinar Yolum

Professor in AI and Data Science at the Department of Information and Computing Sciences of Utrecht University

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Prof. Dr. Ginevra Castellano

Professor in Intelligent Interactive Systems at the Department of Information Technology of Uppsala University, head of Uppsala Social Robotics Lab

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Dr. Natalia Calvo-Barajas

Post-Doctoral Researcher at the Department of Information Technology of Uppsala University

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