

ARTEMIS PANAGOPOULOU

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EDUCATION

University of Pennsylvania, Philadelphia, PA

Doctor of Philosophy, Computer and Information Science

Aug, 2021 - May, 2025

Research Interests: Natural Language Processing, Computer Vision

Advisors: Chris Callison-Burch, Mark Yatskar

GPA: 3.84/4.

Master of Science in Engineering, Computer and Information Science

Jan, 2018 - Aug, 2020

Thesis Title: “*Metaphor and Entailment: Looking at Metaphors Through the Lense of Textual Entailment*”

Advisor: Mitch Marcus

GPA: 3.77/4.

Dual Degree in Artificial Intelligence

Aug, 2015 - Aug, 2020

Bachelor of Applied Science (BAS), Computer and Cognitive Science.

Thesis Title: “*Best-First-Model-Merge: From Theory to Implementation and Application*”

Advisor: Mitch Marcus

Bachelors of Arts (BA) Honors, Cognitive Science

Thesis Title : “*Optical Flow Estimation from Event Based Cameras Using Deep Spiking Neural Networks*”

Advisor: Kostas Daniilidis

Bachelors of Arts (BA) Honors, Philosophy

Thesis Title: “*On the suitability of Generative Difference Making for addressing challenges in Artificial Intelligence and Robotics.*”

Advisor: Lisa Miracchi

Minor in Mathematics

GPA: 3.59/4.

RESEARCH EXPERIENCE

Research Assistant

May, 2019 - May, 2020

General Robotics, Automation, and Sensing (GRASP) Lab, University of Pennsylvania

- Worked on estimating optical flow from event based cameras (supervised and unsupervised) using Spiking Neural Networks. (Supervisor: Prof. Kostas Daniilidis)

Research Assistant

May, 2019 - Aug, 2019

*Kod*Lab, University of Pennsylvania*

- Developed a simulation for physically parameterized soft bellow-shaped robots with multiple degrees of freedom. (Supervisor: Prof. Daniel Koditschek)

Research Assistant

May, 2018 - Oct, 2018

Computer Science Department, University of Pennsylvania

- Applied K-reversible inference on the synthesis of Turkish morphology. (Supervisor: Prof. Mitch Marcus)

INDUSTRY EXPERIENCE

Co-founder and Software Developer

Aug 2020 - Aug 2021

Aarogya LLC, Philadelphia, US and Bangalore, India

- Co-founded aarogya.life, an award winning health-tech social enterprise creating a platform to enable low-income patients to access essential medicines while preventing wastage of medicines lying unused in warehouses.
- Awarded the President's Engagement Prize which is competitively granted to academically excellent and civically engaged Penn seniors to design and undertake fully-funded engagement projects during the first year post grad.

Software Engineering Intern

Jan - Aug, 2018

I-Spirit, Athens, Greece

- Provided technical support to clients, hosted training lessons for new clients
- Updated the product's UI (JavaFX application) to better integrate with Windows 10 design
- Contacted clients to collect user requirements to implement in the next release

AWARDS AND FUNDING

Alexa Taskbot Competition Finalist

February, 2022

President's Engagement Prize

May, 2020

Dean's List

Aug, 2017 - May, 2020

CIS Faculty Appreciation Award

March, 2019

TEACHING EXPERIENCE

Instructor

Sept, 2022 - Dec, 2022

Prison Teaching Initiative at Princeton University, Southwoods State Prison

Instructors: *Artemis Panagopoulou, Joe Abatte, Uthsav Chitra*

Teaching Assistant

Aug, 2022 - Dec, 2022

Course: *CIS 530: Natural Language Processing*

Instructor: *Prof. Mark Yatskar*

Elementary School Instructor

Aug, 2021 - May, 2022

Python Coding Curriculum at Kohelet Yeshiva School (4-5 grade)

Instructor: *Artemis Panagopoulou*

Teaching Assistant

Jan, 2022 - May, 2022

Course: *CIS 700: Interactive Fiction and Text Generation*

Instructor: *Prof. Chris Callison-Burch, Dr. Lara Martin*

Teaching Assistant

Aug, 2021 - Dec, 2021

Course: *CIS 521: Introduction to Artificial Intelligence*

Instructor: *Prof. Chris Callison-Burch*

Head Teaching Assistant

Aug, 2018 - May, 2019

Course: *MCIT 592: Mathematical Foundations of Computer Science*

Instructor: *Prof. Val Tannen*

Teaching Assistant

Jan, 2018 - May, 2018

Course: *CIS 262: Automata, Computability, and Complexity*

Instructor: *Dr. Nima Roohi*

LEADERSHIP AND ACTIVITIES

Alexa Taskbot Competition [Finalist]

Aug 2021 - May 2022

- Co-Lead University of Pennsylvania's Team for the Alexa Taskbot Challenge. We implemented a live Alexa Skill that guides users through tasks and recipes.

- Gained experience with Amazon Web Services (AWS) and Alexa Skills Kit (ASK).

Mind, Intelligence, Research, and Analysis (MIRA) Group

May 2018 - Aug 2019

- Graduate philosophy research and training group focused on issues in philosophy of mind and language, cognitive science, and epistemology led by Professor Miracchi.

Women in Computer Science (WiCS)

Jan 2019 - May 2019

- Acted as a mentor to freshman female computer science majors.

Ivy League Undergraduate Research Symposium

Jan 2018 - Aug 2018

- Led an end-to-end application development project aimed to automate networking and scheduling for the symposium.
- Managed team of 3 developers with bi-weekly Agile sprints to build the Android application.
- Designed and built core backend, UI, and testing infrastructure.

PUBLICATIONS

- *Panagopoulou, Artemis, et al. "QuakerBot: A household dialog system powered by large language models", Alexa Prize TaskBot Challenge Proceedings (2022)*
- *Kenneth Chaney, Artemis Panagopoulou, Chankyu Lee, Kaushik Roy, and Kostas Daniilidis. "Self-Supervised Optical Flow with Spiking Neural Networks and Event Based Cameras." (IROS 2021)*
- *Yue Yang, Artemis Panagopoulou, Qing Lyu, Li Zhang, Mark Yatskar, Chris Callison-Burch. "Visual Goal-Step Inference using wikiHow." EMNLP 2021 (Oral).*