

# Felicity H. Escarzaga

Northern Arizona University

Mobile: (928) 362-9096

Email: fhe2@nau.edu

August 23, 2021

## EDUCATION

---

**Ph.D. expected 2024** Informatics, Northern Arizona University, Flagstaff, Az.

Topics: Informatics in Biometric Signal Processing

Advisor: Dr. Kyle N. Winfree

**B.S. 2019** Mechanical Engineering, Northern Arizona University, Flagstaff, Az.

## POSITIONS HELD & INTERNSHIPS

---

2020– <i>present</i>	Graduate Teaching Assistant, School of Informatics Cyber Systems and Computing (SICCS), Northern Arizona University
2019–2020	Graduate Research Assistant, School of Informatics Cyber Systems and Computing (SICCS), Northern Arizona University
2018	Summer Wearable Informatics Lab Internship
2017–2019	Rapid Prototyping Lab Assistant, Department of Vice President for Research, Northern Arizona University
2017	Summer Wearable Informatics Lab Internship
2017	Undergraduate Teaching Assistant, Mechanical Engineering, Northern Arizona University
2016–2017	Administrative Assistant, School of Informatics Cyber Systems and Computing (SICCS), Northern Arizona University
2016	Summer Wearable Informatics Lab Internship

## RESEARCH & PROJECTS

---

2021– <i>present</i>	Biometric Signal Classification: Classifying raw open source EMG data from the Myo gesture control armband.
2021	Robotic Pathing using an MPI Parallelized A* Search Agent: Heuristic A* path finding for N degrees of freedom in parallel using MPI on NAU's Monsoon compute cluster.
2018–2019	Active Prosthetic: Creating a 3D printed electromechanical prosthesis using affordable off-the-self hardware.
2018– <i>present</i>	E-Nable Flagstaff: Designing, fitting, fabricating, and assembling 3D printed prosthetic arms from the open-source world-wide organization E-Nable.
2017–2019	BiOM Testing Apparatus: Designing and fabricating a testing apparatus for the BiOM foot prosthesis.
2016–2020	At Home, Not In a Home: Creating an in-home sit-to-stand dual-door access harness system.
2016	A Winding Filament Model: Designing and fabricating a physical model for the Winding Filament Hypothesis.

## PUBLICATIONS

---

### *Symposia Presentations*

- (S1) Felicity H. Escarzaga, Kiisa Nishikawa, and Kyle N. Winfree. Design and Fabrication of a Physical Model for the Winding Filament Hypothesis. *ASU Conference on Rehabilitation Robotics*, 2017

## AWARDS & MEMBERSHIPS

---

2020	NSF Graduate Research Fellowships Program (GRFP) Honorable Mention.
2019	Distinguished Senior Award: College of Engineering, Informatics, and Applied Sciences, NAU.
2019	EPIC Award: Mechanical Engineering, NAU.
2019	Silver Gear Award: Mechanical Engineering, NAU.
2019	Served on Academic Integrity Hearing Board, Mechanical Engineering, NAU.
2018–2019	NAU e-Nable Flagstaff (ENF) Club Founder and President.
2018	NAU e-Nable Chapter Leader.
2018–2019	Kollis & Opal B King Scholarship.
2018–2019	Delia Martines Memorial Scholarship.
2018	Tau Beta Pi member.
2014–2019	Northern Arizona University Dean's List.
2015	Golden Key Honor Society member.
2014–2018	Lumberjack Scholars Award.
2014	Provost Scholarship, Arizona State University.
2014	President's Award for Educational Excellence.
2014	Outstanding Academic Excellence.
2014	National Forensic League Degree of Excellence.
2013–2014	Mohave Community College Honors List.