

# Cedric Vicera

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## Education

### University of Pennsylvania

Master of Computer and Information Technology (2022 exp.)

### University of Arizona

B.A. in Philosophy (*Honors*) (2020)

Thesis: *The Scope of Mechanistic Explanation*

Advisor: Richard Healey

## Publications

### *Refereed Conference Papers*

Analysis of Acute Respiratory Failure Patient Noninvasive Ventilation Therapy

Patrick Essay, Cedric Vicera, Jarrod Mosier, & Vignesh Subbian

*American Thoracic Society International Conference* (2020)

## Presentations

### *Talks*

**Phenotyping of Mechanically Ventilated Patients in the ICU**

*UROC Summer Colloquium* · University of Arizona (August 2019)

### *Posters*

**Persona Identification in Tele-ICU Data of Mechanically Ventilated Patients**

*UROC Summer Research Conference* · University of Arizona (August 2019)

## Honors & Awards

Magellan Circle Scholarship (2019)

H.J. and Signe Bonnevie Scholarship (×2) (2018, 2019)

UROC Summer Research Institute Stipend (2019)

Laura and Arch Brown Scholarship (2018)

Wildcat Excellence Tuition Award (2017 – 2020)

## Teaching

*Teaching Assistant* · University of Pennsylvania

Introduction to Software Development (2021) · Brandon Krakowsky

*Head Section Leader* · University of Arizona

Computational Thinking and Doing (2019) · Dylan Murphy

*Section Leader* · University of Arizona

Dealing with Data (2020) · Rich Thompson

Computational Thinking and Doing (2019) · Rich Thompson

Computational Thinking and Doing (2018) · Dylan Murphy

## Graduate Coursework

*Computer Science*

Data Structures & Software Design · Rafael Rubin

Introduction to Computer Systems · Thomas Farmer

Mathematical Foundations of Computer Science · Val Tennen

Introduction to Software Development · Brandon Krakowsky

*Machine Learning*

Artificial Intelligence for Health and Medicine · Vignesh Subbian

Neural Networks · Steven Bethard

*Philosophy*

Healthcare Ethics · Laura Howard

Symbolic Logic · Jason Turner

## Additional Experience

### *Research Experience*

**Computational Medicine and Informatics Collaboratory (2018 – 2020) · University of Arizona**

Conducted research on applications in critical care investigating computational solutions for respiratory conditions.

### *Summer Programs*

**UROC Summer Research Institute (2019) · University of Arizona**

Attended a fully funded summer program for underrepresented students interested in research and graduate education organized by the University of Arizona Graduate College.