

# Cedric Vicera

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## Education

### *University of Pennsylvania*

Master of Computer and Information Technology (2022 exp.)

### *University of Arizona*

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

#### **TBD**

*POE Lunch & Learn Series* · St. Jude Children's Research Hospital (July 2021)

#### **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 ( $\times 2$ ) (2018, 2019)  
UROC Summer Research Institute Stipend (2019)  
Laura and Arch Brown Scholarship (2018)

## 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

*Machine Learning*

Artificial Intelligence for Health and Medicine · Vignesh Subbian  
Neural Networks · Steven Bethard

*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

*Philosophy*

Healthcare Ethics · Laura Howard  
Symbolic Logic · Jason Turner

## Additional Experience

### *Research Experience*

#### **Pediatric Oncology Education Program (2021) · St. Jude Children's Research Hospital**

Conducted research on pediatric oncology investigating data science methods to improve treatment of catastrophic pediatric diseases

#### **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