

# Cedric Vicera

vicera@seas.upenn.edu  
www.cedricvicera.com

## Education

### *University of Pennsylvania*

Master of Computer and Information Technology (2022 exp.)

### *University of Arizona*

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

Thesis: *The Scope of Mechanistic Explanation*

Advisor: Richard Healey

## Publications

### *Refereed Conference Papers*

Analysis of Acute Respiratory Failure Patient Noninvasive Ventilation Therapy

P. Essay, C. Vicera, J. Mosier, & V. 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**

*24th Annual UROC Research Conference* · University of Arizona (August 2019)

## Honors & Awards

Magellan Circle Scholarship (2019)  
H.J. & Signe Bonnevie Scholarship (2019, 2018)  
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

## 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 severe 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

## 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