

# CEDRIC VICERA

August 2021

vicera@seas.upenn.edu

www.cedricvicera.com

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## EDUCATION

University of Pennsylvania

Expected 2023

Master of Computer and Information Technology

University of Arizona

2020

B. A. in Philosophy (with Honors)

Thesis: *The Scope of Mechanistic Explanation* (Advisor: Richard Healey)

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## RESEARCH EXPERIENCE

### Research Assistant

St. Jude Children's Research Hospital · Department of Biostatistics

Summer 2021

PI: Li Tang

(programming in R; research on gut microbiome analysis of ALL patients for obesity status using mixed-effects modeling)

Computational Medicine and Informatics Collaboratory

2018–2020

PI: Vignesh Subbian

(programming in Python, R; research on cohort discovery via tele-ICU systems to develop personas for critically ill mechanical ventilation patients)

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## PUBLICATIONS

Analysis of Acute Respiratory Failure Patient Noninvasive Ventilation Therapy 2020

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

*American Thoracic Society International Conference*

Persona Identification in Tele-ICU Data of Mechanically Ventilated Patients 2019

*UROC Abstract Review*

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## PRESENTATIONS

The Effect of the Gut Microbiome on Obesity in Survivors of Childhood Cancer

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

Persona Identification in Tele-ICU Data of Mechanically Ventilated Patients  
24th Annual UROC Research Conference (Poster) · University of Arizona      June 2018

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## TEACHING

### University of Pennsylvania · Teaching Assistant

Introduction to Software Development (Brandon Krakowsky)      Fall 2021

Introduction to Software Development (Brandon Krakowsky)      Spring 2021

### University of Arizona · Head Section Leader

Computational Thinking and Doing (Dylan Murphy)      Fall 2019

### University of Arizona · Section Leader

Dealing with Data (Rich Thompson)      Spring 2020

Computational Thinking and Doing (Rich Thompson)      Spring 2019

Computational Thinking and Doing (Dylan Murphy)      Fall 2018

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## HONORS & AWARDS

### Research Fellowships

UROC Summer Research Institute      Summer 2019

### Scholarships

Magellan Circle Scholarship      2019

H.J. & Signe Bonnevie Scholarship (2x)      2018, 2019

Laura and Arch Brown Scholarship      2018

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## GRADUATE COURSEWORK

### Statistics and Machine Learning

#### University of Pennsylvania

Artificial Intelligence (Christopher Callison-Burch)      2021

Statistics for Data Science (Eric Eaton and Hamed Hassani)

#### University of Arizona

Artificial Intelligence for Health and Medicine (Vignesh Subbian)      2020

Neural Networks (Steven Bethard)      2019

### Computer Science

#### University of Pennsylvania

Blockchains and Cryptography (Brett Falk and Mohammad Amiri)      2021

Data Structures and Software Design (Rafael Rubin)

Introduction to Computer Systems (Thomas Farmer)

Mathematical Foundations of Computer Science (Val Tannen)

Introduction to Software Development (Brandon Krakowsky)	2020
Philosophy	
University of Arizona	
Healthcare Ethics (Laura Howard)	2020
Symbolic Logic (Jason Turner)	2019

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## REFERENCES

Li Tang Associate Member St. Jude Children's Research Hospital li.tang@stjude.org	Vignesh Subbian Assistant Professor University of Arizona vsubbian@arizona.edu
Brandon Krakowsky Lecturer University of Pennsylvania lbrandon@wharton.upenn.edu	Richard Thompson Senior Lecturer University of Arizona rmthomps@arizona.edu