

# Cedric Vicera

## CONTACT

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## Education

### University of Pennsylvania

Master of Computer and Information Technology

Expected 2022

### University of Arizona

B.A., Philosophy (with Honors)

2020

Advisor: Richard Healey

Thesis: *The Scope of Mechanistic Explanation*

## Research Experience

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

Summer 2021

Advisors: Li Tang, Suraj Sarvode Mothi

Project: Gut microbiome analysis of ALL patients for obesity status

### University of Arizona · Computational Medicine and Informatics Collaboratory

2018 – 2020

Advisors: Vignesh Subbian, Patrick Essay

Project: Computational phenotyping of critical care patients for respiratory health

## Publications

### CONFERENCE PROCEEDINGS

Analysis of Acute Respiratory Failure Patient Noninvasive Ventilation Therapy

2020

Patrick Essay, Cedric Vicera, Jarrod Mosier, Vignesh Subbian

*American Thoracic Society International Conference*

### UNDERGRADUATE

Persona Identification in Tele-ICU Data of Mechanically Ventilated Patients

2019

Cedric Vicera

*UROC Abstract Review*

## Presentations

### INVITED TALKS

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

## POSTERS

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

24th Annual UROC Research Conference · University of Arizona

August 2019

## Honors & Awards

### RESEARCH FELLOWSHIPS

Magellan Circle Scholarship 2019

UROC Summer Research Institute Stipend 2019

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

Laura and Arch Brown Scholarship 2018

## Teaching

### GRADUATE TEACHING ASSISTANT · UNIVERSITY OF PENNSYLVANIA

Introduction to Software Development · *Brandon Krakowsky* 2021

### HEAD SECTION LEADER · UNIVERSITY OF ARIZONA

Computational Thinking and Doing · *Dylan Murphy* 2019

### SECTION LEADER · UNIVERSITY OF ARIZONA

Dealing with Data · *Rich Thompson* 2020

Computational Thinking and Doing · *Rich Thompson* 2019

Computational Thinking and Doing · *Dylan Murphy* 2018

## Additional Experience

### SUMMER PROGRAMS

**Pediatric Oncology Education Program** 2021

NIH/NCI funded research program for students to gain training in biomedical/oncology research

**UROC Summer Research Institute** 2019

Fully funded research program for underrepresented students interested in graduate education

## Graduate Coursework

### STATISTICS & MACHINE LEARNING

Statistics for Data Science · *Eric Eaton & Hamed Hassani*

Artificial Intelligence for Health and Medicine · *Vignesh Subbian*

Neural Networks · *Steven Bethard*

## COMPUTER SCIENCE

Blockchains and Cryptography · *Brett Falk & Mohammad Amiri*

Data Structures and 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*

## References

### **Li Tang**

Associate Member

St. Jude Children's Research Hospital

[li.tang@stjude.org](mailto:li.tang@stjude.org)

### **Suraj Sarvode Mothi**

Biostatistician

St. Jude Children's Research Hospital

[suraj.sarvodemothi@stjude.org](mailto:suraj.sarvodemothi@stjude.org)

### **Vignesh Subbian**

Assistant Professor

University of Arizona

[vsubbian@arizona.edu](mailto:vsubbian@arizona.edu)