CEDRIC VICERA

August 2021 vicera@seas.upenn.edu www.cedricvicera.com

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)

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)

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

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

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
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
GRADUATE COURSEWORK	
Statistics and Machine Learning	
University of Pennsylvania	2021
Artificial Intelligence (Christopher Callison-Burch) Statistics for Data Science (Eric Eaton & Hamed Hassani)	2021
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 & Mohammad Amiri)	2021
Data Structures and Software Design (Rafael Rubin) Introduction to Computer Systems (Thomas Farmer)	
Mathematical Foundations of Computer Science (Val Tennen)	

2020
2020
2019

REFERENCES

Li Tang Vignesh Subbian
Associate Member Assistant Professor
St. Jude Children's Research Hospital University of Arizona
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Brandon Krakowsky Richard Thompson
Lecturer Senior Lecturer
University of Pennsylvania University of Arizona
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