Cedric Vicera

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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

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

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
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Suraj Sarvode Mothi
Biostatistician
St. Jude Children's Research Hospital
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Vignesh Subbian
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