Cedric Vicera

CONTACT
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Education

University of Pennsylvania
Master of Computer and Information Technology   Expected 2023

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

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

TEACHING ASSISTANT · UNIVERSITY OF PENNSYLVANIA

Introduction to Software Development · *Brandon Krakowsky*   2021
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

Artificial Intelligence · *Christopher Callison-Burch*
Statistics for Data Science · *Eric Eaton & Hamed Hassani*

Artificial Intelligence for Health and Medicine · *Vignesh Subbian*
Neural Networks · *Steven Bethard*

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*

Healthcare Ethics · *Laura Howard*
Symbolic Logic · *Jason Turner*

Languages

English · *Native*
Japanese · *Elementary*

References

Available on request.