Blanca Villanueva

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EDUCATION

Stanford University M.S. Biomedical Informatics 2018 - 2020
Stanford University B.S.E. Computer Science (Artificial Intelligence) 2012 - 2016

SELECTED EXPERIENCE

Stanford Technology Ventures Program *Threshold Ventures Fellow* (Stanford, CA)
Entrepreneurial leadership program with Prof. Tina Seelig and Heidi Roizen. Nov 2019 - Present

Stanford University *Research Assistant* (Stanford, CA)
Stanford Network Analysis Project (SNAP) Group (advised by Prof. Jure Leskovec) Sep 2019 - Present
· Developing more accurate measures of socioeconomic segregation through network analysis.
Applied Crypto Group (advised by Prof. Giancarlo Pellegrino & Prof. Dan Boneh) Mar 2019 - Sep 2019
· Testing the security of data valuation methods for machine learning systems.

Stanford Data Science Initiative *Data Science Fellow* (Stanford, CA) Jul 2019 - Sep 2019
Conducted bias audits on Veterans Health Administration data with Prof. Chiara Sabbatti and Dr. Balasubramanian Narasimhan as part of the inaugural Data Science for Social Good Fellowship cohort.

CYNGN *ML Applied Scientist - Autonomous Driving Perception* (Menlo Park, CA) Apr 2017 - Aug 2018
Built multimodal perception models for autonomous driving.

Lumiata *Data Scientist* (San Mateo, CA) Sep 2016 - Mar 2017
Built regression models for risk assessment from electronic health records with Dr. Kim Branson.

Icahn School of Medicine at Mount Sinai *Data Science Intern* (New York, NY) Jun 2016 - Sep 2016
Built machine learning methods to phenotype high-cost, high-needs patients with Dr. James Faghmous.

TEACHING

Teaching weekly discussion sessions, hosting office hours, developing course material, and grading.
CS 110: Principles of Computer Systems Jan 2019 - Sep 2019
CS 106A: Programming Methodology; CS 106B: Programming Abstractions Jan 2015 - Jun 2015

PUBLICATIONS

Sudhakar V. Nuti, Patrick Doupe, **Blanca Villanueva**, Joseph Scarpa. Emilie Bruzelius, Aaron Baum. Characterizing Subgroups of High-Need, High-Cost Patients Based on Their Clinical Conditions: a Machine Learning-Based Analysis of Medicaid Claims Data *Journal of General Internal Medicine (JGIM)*, 2019.

SKILLS & PROJECTS

Software: Python, C++/C, PyTorch, Tensorflow, Git, LaTeX, Solidity
CPlayground: An interactive pedagogical tool to help students learn about computer systems. Currently working on building a debugger and a file descriptor UI.

SELECTED ACTIVITIES

Hammarskjold House *Community Manager* (Stanford, CA) Aug 2015 - Jun 2016
Organized events for residents, the greater co-op community, and the international student body as the international student co-op's Community Manager

Stanford Taiko *Performing Member* (Stanford, CA) Oct 2013 - Jun 2016
Performed and helped run Stanford Taiko, a collegiate performing ensemble devoted to bringing taiko to the greater community under the guidance of the Department of Music.