

## Blanca Villanueva

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### EDUCATION

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

### INDUSTRY EXPERIENCE

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<b>CYNGN</b> <i>ML Applied Scientist</i> (Menlo Park, CA)	Apr 2017 - Aug 2018
Built multimodal perception models for autonomous driving.	
<b>Lumiata</b> <i>Data Scientist</i> (San Mateo, CA)	Sep 2016 - Mar 2017
Built regression models for risk assessment from electronic health records with Dr. Kim Branson.	

### RESEARCH EXPERIENCE

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<b>Stanford University</b> <i>Research Assistant</i> (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.	
<b>Stanford Data Science Initiative</b> <i>Data Science Fellow</i> (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.	
<b>Icahn School of Medicine at Mount Sinai</b> <i>Data Science Intern</i> (New York, NY)	Jun 2016 - Sep 2016
Built machine learning methods to phenotype high-cost, high-needs patients with Dr. James Faghmous.	

### TEACHING EXPERIENCE

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Teaching weekly discussion sessions, hosting office hours, developing course material, and grading.	
Stanford Code in Place	Apr 2020 - May 2020
CS 110: Principles of Computer Systems	Jan 2019 - Sep 2019
CS 106A: Programming Methodology; CS 106B: Programming Abstractions	Jan 2015 - Jun 2015

### PUBLICATIONS

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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

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**Software:** Python, C++/C, PyTorch, Tensorflow, Git, LaTeX, Solidity

### SELECTED ACTIVITIES

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<b>Stanford Technology Ventures Program</b> <i>Threshold Ventures Fellow</i> (Stanford, CA)	
Entrepreneurial leadership program with Prof. Tina Seelig and Heidi Roizen.	Nov 2019 - Jun 2020
<b>Hammariskjold House</b> <i>Community Manager</i> (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	
<b>Stanford Taiko</b> <i>Performing Member</i> (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.	