

SERGIO GONZALES

curriculum vitæ

Biomedical Informatics Training Program
Stanford University School of Medicine
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EDUCATION

2019–	Stanford University School of Medicine Biomedical Informatics	PhD
2017–	University of New Mexico School of Medicine	MD
2015–2017	Harvard University Graduate School of Arts & Sciences Economics	Visiting Student
2010–2015	University of New Mexico College of Arts & Sciences Mathematics, Statistics, Natural & Social Sciences Navajo Language & Linguistics and Chicana & Chicano Studies	BA, ΦBK , <i>summa cum laude</i>

PUBLICATIONS

- JA Lossio-Ventura, **S Gonzales**, J Morzan, H Alatrística-Salas, T Hernandez-Boussard, & J Bain. “Evaluation of clustering and topic modeling methods over health-related tweets and emails.” *Artificial Intelligence in Medicine*. 2021
- S Gonzales** & BD Sommers. “Intra-Ethnic Coverage Disparities and Effects of Health Reform.” *Health Services Research*. 2018
- S Gonzales**, M Mullen, L Skolarus, D Thibault, U Udoeyo, & A Willis. “Progressive Rural-Urban Disparity in Acute Stroke Care.” *Neurology*. 2017

PRESENTATIONS

- June 2022 **Development of a real-valued representation of sex physiology in EHR**
The National Library of Medicine T15 Training Grant Annual Meeting
- March 2021 **Stational and community based methods for assessing algorithmic fairness**
Biomedical Informatics Program Tuesday Talk Series
- May 2020 **Separation of autofluorescence in multiplexed immunofluorescence imaging**
Biomedical Informatics Program Tuesday Talk Series
- July 2018 **Computer vision methods for segmentation of intracranial tumors**
Mallinckrodt Institute of Radiology Summer Fellow Symposium
- June 2016 **Intra-ethnic disparities in health insurance coverage and reform effects**
American Society of Health Economists Biannual Meeting
- August 2014 **Effects of Primary Stroke Center Certification on Acute Stroke Outcomes**
Summer Undergraduate Minority Research Symposium

AWARDS

2014–2015 Rhodes Scholarship Finalist
2014–2015 Marshall Scholarship Finalist
2014 Elected to Phi Beta Kappa
2013 El Centro de la Raza Outstanding Scholar Award
2010–2015 College of Arts and Sciences Dean’s List
2010–2014 University of New Mexico Presidential Scholar

RESEARCH EXPERIENCE

Spring 2020 **Rotation Student**, [Daniel Rubin PhD](#), Stanford University
Cell segmentation algorithm of high resolution H&E images with CNNs

Winter 2020 **Rotation Student**, [Sylvia Plevritis PhD](#), Stanford University
Subtraction of autofluorescence in high resolution, multiplexed immunofluorescence with CNNs and generation of validation data for subtraction algorithms with statistical models and conditional GANs

Summer 2019 **Rotation Student**, [Tina Hernandez-Boussard PhD](#), Stanford University
Methods for clustering and topic modeling of health related text

Summer 2018 **Summer Fellow**, [Daniel Marcus PhD](#), Washington University in St. Louis School of Medicine, Mallinckrodt Institute of Radiology
Segmentation of intracranial tumors with CNNs

2016–2017 **Research Assistant**, [Nathaniel Hendren PhD](#), Harvard University
Causal Identification of historical impacts of slavery on social mobility today

2015–2016 **Research Assistant**, [Benjamin D. Sommers MD PhD](#), Harvard University
Identification of variation of intra-ethnic variation in effects of the Affordable Care Act among Latinos

Summer 2014 **Research Assistant**, [Allison Willis MD MSc](#), University of Pennsylvania
Characterization of trends in geographic disparity in standard of care and hospital accreditation

Spring 2014 **New Mexico Department of Health Occupational Health Surveillance Project**, Stephanie Moraga-McHaley MS, NM DOH
Calculated federally required occupational health statistics for the state of New Mexico

Spring 2014 **An Experimental Analysis of Subject-Object Inversion in Diné Bizaad (Navajo)**, Paul Platero PhD, University of New Mexico
Experimentally tested noun class ordering and subject-object inversion linguistic theory with native speakers of Diné Bizaad

LEADERSHIP

- 2020– **Secretary**, **Society of the Advancement of Chicanos and Native Americans in STEM**
2020, 2021 **Program Leader**, **ADVANCE Program Summer Institute**
2018–2019 **President**, Association for the Advancement of Minorities in Medicine
2017–2019 **Admissions Committee Member**, University of New Mexico School of Medicine Combined BA/MD Program
2014–2015 **Cabinet Member**, University of New Mexico Office of the President
2013–2015 **Core Team Member**, Bernalillo County Place Matters
2013–2014 **Board Member**, Chicana & Chicano Studies Program Advisory Board
2013–2014 **Co-Chair**, Movimiento Estudiantil Chicana/Chicano de Aztlán del Universidad de Nuevo México

WORK & TEACHING

- Fall 2015 **Teaching Assistant**, University of New Mexico College of Arts and Sciences
2014–2015 **Student ArcGIS Specialist**, University of New Mexico Southwest Research Institute
Created custom maps of historical boundaries of Spanish and Mexican Land Grants in Northern New Mexico using ArcGIS
Fall 2014 **Supplemental Instructor**, University of New Mexico Center of Academic Support
Prepared supplemental lectures, worksheets, and practice quizzes/exams for upper division biochemistry courses.

TECHNICAL SKILLS

Programming Languages: Python, R, SQL, Julia, Javascript, C++
Software: ArcGIS, QGIS, 3D Slicer, Stata, MatLab
Languages: *Español*, *Diné Bizaad* (Navajo)
Other: L^AT_EX, git