DANIEL A. SANDOVAL, PH.D.

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EDUCATION

Ph.D., Development Sociology   January, 2004
Cornell University, Ithaca, NY
Major Field: Community and Regional Sociology
Minor Fields: Research Methods (Logistic Regression and Survival Analysis)
                 Social and Health Systems Planning
Dissertation: Rising Tides, Sinking Boats? The Increase of Poverty Risk and Income Insecurity in the
                 U.S. Since the 1970's

M.S., Development Sociology   January, 2000
Cornell University, Ithaca, NY
Major Field: Community and Regional Sociology
Minor Field: Social and Health Systems Planning
Thesis: The Penalty for Exiting Welfare: Economic and Residential Factors
           Affecting Former Recipient's Well-Being

B.S., Engineering and Applied Science with Honors   June, 1993
California Institute of Technology, Pasadena, CA
Area of Concentration: Mechanical and Electrical Engineering

**RESEARCH
& TEACHING
EXPERIENCE**

Adjunct Professor   January, 2020 to present
California State University Channel Islands, Camarillo, CA
Teaching Sociological Statistics and Methods for classes of up to twenty-four undergraduates.
Responsible for creating all lectures, assignments, and exams.

Adjunct Professor   August 2019 to present
California Lutheran University, Thousand Oaks, CA
Teaching Introduction to Sociology for classes of up to thirty undergraduates. Responsible for
creating all lectures, assignments, and exams.

Adjunct Professor   September 2006 to December 2011
Eastern Connecticut State University, Willimantic, CT
Teaching Introduction to Sociology/ Social Inequality / Deviance for classes of up to forty
undergraduates. Responsible for creating all lectures, assignments, and exams.

Research Assistant   January 2004 to January 2005
Cornell University, Ithaca, NY
Conducted analysis of wealth dynamics data using the *Panel Study of Income Dynamics* (PSID)
public use dataset for Professor Thomas Hirschl.

Teaching Assistant   August 1999 to May 2000
Cornell University, Ithaca, NY
Assisted in courses on measurement, research design and multiple regression. Guest lectured
three times, redesigned computer lab work, taught all computer lab sections, graded all
assignments and determined final grades.

Research Assistant   August 1998 to May 1999

Cornell University, Ithaca, NY

Conducted statistical analysis of *Current Population Survey* (CPS) public use dataset for welfare reform research for the Rural Poverty Research Institute. Research was subsequently provided to Senators Moynihan (D-NY) and Rockefeller (D-WY) of the Senate Finance Committee in anticipation of the reappropriation of the welfare reform bill (PRWORA 1996).

WORK   **Business Consultant**   2015-Present
EXPERIENCE
                     Inventiva Technology & Design, Santa Paula, CA

Independent contractor for several businesses providing analytical consulting and general software support. Performed advanced data analytics and developed complete data solutions in a wide variety of industries.

Accomplishments:
- Performed cost analyses for several major insurers regarding utilization and other measures for diabetes treatment, emergency department usage, and other healthcare issues identifying over **$250 million** in prospective savings.   Combined proprietary and outside sources from the BLS, USDA, and HRSA (public use files).
- Created online data analytics solution exposing revenue data in dashboards for a financial firm sourced from Microsoft Dynamics CRM.
- Created data analytics solution using MS SQL Server, Excel and cloud components for a custom manufacturing firm.

Director of Business Intelligence   2011-2015

Innovative Computer Systems, Farmington CT

Division team manager and lead architect of data analytics solutions utilizing the Microsoft data analytics platform. Projects included: analyzing large datasets for medical cost and utilization studies, advanced metrics for a regional radiology company, advanced metrics for high-precision custom manufacturing.

Accomplishments:
- Increased division revenue an average of 100% each year since inception in 2011.
- Used statistical methods to identify $80 million in medical utilization overuse for national insurance client.
- Used Microsoft data analytics tools to established metrics that saved $2 million in operational cost for healthcare client.
- Created metrics in SQL Server that helped manufacturing client increase on-time delivery from 65% to 95%.
- Architected data analytics solution in the cloud for investment firm using Windows Azure and Office 2013 Excel Add-ins to analyze investment portfolio value over time.

Senior Business Productivity Consultant   1997-98; 2004-2011

Innovative Computer Systems, Farmington CT

Managed the development of custom databases/applications and analyzed resulting data. Projects included: extracting health/human service data for electronic reporting, creating algorithms for real-time regression analysis, and developing reports and data migrations for multiple clients.

Accomplishments:
- Developed framework to establish a new division for the company in data analytics.
- Created data migrations and integrations for hospital, medical professional services, and mental health organizations.
- Developed distribution platform for trafficking messages to internet-enabled thermostats for national lighting company.

PROFESSIONAL	Ventura County 2020 Census Complete Count Committee	2019-present
& COMMUNITY	Local Control and Accountability Plan Committee Member,	
SERVICE	Santa Paula Unified School District	2019-present
	Trustee, Blanchard Community Library, Santa Paula, CA	2018-present
	Treasurer, First Christian Church, Santa Paula, CA	2017-present
	Field Committee, Development Sociology, Graduate Representative	1999-2000
	Evaluation Committee, Rural Sociology, Graduate Representative	1995-96
	Connecticut Catholic Service Corps	1993-94
	Tijuana YMCA Community Development Project	1991-93

TECHNICAL
COMPETENCIES

Former Microsoft Virtual Technology Specialist: Business Intelligence

Microsoft Certified IT Professional: SQL Server 2008, Business Intelligence

SQL Server Versions 2016, 2012, 2008 R2, 2008, 2005, 2000

- Integration Services
- Analysis Services (OLAP and Tabular Modeling)
- Reporting Services
- T-SQL Programming (including .Net Integration)

Cloud Expertise

- Microsoft Azure
- Power BI (cloud analytics platform)
- SharePoint Business Intelligence Components
- Excel data analytics add-ins (PowerView, PowerPivot, PowerQuery)

Application Expertise

- VB.NET 2003-2017
- ASP.NET
- Microsoft Dynamics CRM (v3.0, 4.0, 2011, 2013) – Customization, Workflow, JavaScript
- Microsoft Dynamics GP data model/extraction
- MS Access Database Programming
- Outlook Add-ins

Other Technology Competencies

- SAS Programming using Advanced Multivariate Procedures
- Stata Programming Experience
- HTML 4.0/5.0
- Web Services
- HiTrust/HIPAA Compliance