Daniel Casillas, MPH

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PROFILE

Applied biostatistics and healthcare analytics professional with an MPH, advanced SQL skills and strong R and SAS programming, complemented by Python. Develops clinical cohorts, validates analytical datasets and translates research findings into clear reports. Primary statistician and co-author on three submitted orthopedic manuscripts, with experience communicating study data to investigators, clinical leaders and industry sponsors.

TECHNICAL SKILLS

- Programming and data: SQL, R, SAS, Python, Epic Clarity, Caboodle, cohort development, data cleaning and validation
- Statistical methods: Regression modeling, propensity score matching, comparative analysis, effect estimates and confidence intervals
- Reporting and research: Reproducible statistical reports, research tables, Excel, Tableau, ggplot2, REDCap, IRB compliance and Good Clinical Practice

EPIC CREDENTIALS

Cogito Fundamentals, Certified | Clarity Data Model Fundamentals, Accredited | Caboodle Data Model Fundamentals, Accredited

EDUCATION

University of Colorado Anschutz Medical Campus

Master of Public Health, Applied Biostatistics | Dec 2025

University of Colorado Denver

Bachelor of Science, Public Health

PROFESSIONAL EXPERIENCE

Denver Health Medical Center **Mar 2026 – Present**

Support Specialist III, Quality and Outcomes | Orthopedic Surgery

- Serve as primary statistician and co-author on three orthopedic manuscript submissions addressing diagnostic performance, fracture nonunion predictors and outcomes after nonunion repair.
- Prepare and analyze clinical research data in R and SAS using comparative analyses, regression modeling and propensity score matching. Produce research tables, effect estimates and confidence intervals.
- Develop Epic Clarity SQL queries to identify clinical cohorts and link patient, encounter, diagnosis and procedure data for research and quality reporting.
- Validate eligibility criteria, date windows, duplicate records, missing values and outcome definitions. Resolve discrepancies with clinical investigators before reporting findings.
- Support CMS TEAM and orthopedic quality initiatives through analysis of surgical outcomes, readmissions and patient-reported outcome measures. Document analytical methods for reproducibility and clinical interpretation.

SELECTED ANALYTICAL WORK

Diagnostic Performance and Clinical Modeling

- Analyze 113 operative infection episodes across 96 patients for a submitted LRINEC diagnostic-performance study. Use Firth logistic regression to address sparse outcome data and prepare statistical results for manuscript development.

Fracture Nonunion Research

- Primary statistician on two submitted studies examining predictors of sacral fracture nonunion and the relationship between timing of repair and recalcitrant femoral or tibial shaft nonunion. Prepare analyses and communicate findings for clinical interpretation.

Clinical Cohort Development

- Translate clinical eligibility criteria into SQL logic. Review patient and encounter relationships, diagnosis and procedure criteria, date windows and cohort counts to support reliable research and quality reporting.

ADDITIONAL EXPERIENCE

University of Colorado Anschutz Medical Campus **Jul 2023 – Dec 2025**

Professional Research Assistant, Pediatric Endocrinology

- Supported multi-site diabetic kidney disease studies through study coordination, biospecimen management and preparation of study data for investigator and sponsor review.
- Presented study data and operational updates to principal investigators and industry sponsors. Maintained biospecimen integrity and supported regulatory compliance.

Pueblo City Schools District 60 **Aug 2022 – Jun 2023**

Science Teacher

- Taught scientific reasoning, evidence interpretation and communication through project-based classroom investigations.

Colorado Commission on Higher Education **Jun 2021 – Jun 2022**

Student Advisor

- Reviewed available student information to identify barriers to persistence and connect students with appropriate resources.

SELECTED SCIENTIFIC CONTRIBUTIONS

- DAPASALT trial. Named co-author, Diabetes Obes Metab. 2025, 27(8):4415–4426. doi:10.1111/dom.16478.
- Insulin Secretion, Sensitivity, and Kidney Function in Young Individuals With Type 2 Diabetes. Bjornstad Lab group collaborator, Diabetes Care. 2024, 47(3):409–417. doi:10.2337/dc23-1818.

LEADERSHIP

Student Representative, Biostatistics and Informatics, ColoradoSPH, 2024–2025. Student Body President, CU Denver Student Government Association, 2020–2021.