

# ALLISON K. SEIDEL

## EDUCATION

Doctor of Public Health in Epidemiology Colorado School of Public Health, University of Colorado, Denver, CO Dissertation: Development of Baseline Information for the Creation of a Self-Report Surveillance System of Cannabis-Related Unexpected Health Events	August 2017 – December 2022
Master of Public Health in Epidemiology East Tennessee State University, Johnson City, TN	August 2010 – May 2012
Bachelor of Science in Biology Millersville University, Millersville, PA Minor in Chemistry	August 2005 – May 2009

## PROFESSIONAL EXPERIENCE

University of South Florida, College of Public Health, Faculty Instructor Tampa, FL	June 2024 - Present
<ul style="list-style-type: none"><li>Oversee the Integrated Core Curriculum courses for Master of Public Health students; including teaching topics related to data analysis and epidemiology.</li><li>Engage with students to assist them with course questions, material clarification, and career guidance.</li><li>Participate in college activities related to the enhancement of the Core Curriculum for incoming MPH students.</li></ul>	
Wingate University, Adjunct Faculty Wingate, NC	August 2023 - Present
<ul style="list-style-type: none"><li>Teach courses PH620: Principles of Public Health Methods and PH621: Applied Public Health Methods, courses that cover Research Methods and Epidemiology topics.</li><li>Mentoring Master of Public Health (MPH) students through academic challenges, offering valuable insights into career paths, and providing personalized advice to foster their professional development.</li></ul>	
Council for State and Territorial Epidemiologists (CSTE), Program Lead RCKMS/eCR Authoring Support Seidel Analytics, LLC St. Petersburg, FL	February 2022 - Present
<ul style="list-style-type: none"><li>Advance healthcare informatics objectives by promoting the vision and goals of the Reportable Conditions Knowledge Management System (RCKMS) to support Electronic Case Reporting (eCR) for the Centers for Disease Control and Prevention (CDC), ensuring alignment with national healthcare data exchange standards and organizational priorities.</li><li>Provide technical and analytics support to public health authorities and healthcare organizations by assisting with the RCKMS Authoring Interface, resolving eICR and Reportability Response (RR) errors, and troubleshooting reporting issues using knowledge of LOINC, ICD-10, SNOMED CT, CPT, and other standard medical terminologies.</li><li>Develop, manage, and optimize large healthcare datasets through data verification, table creation, indexing, stored procedure utilization, and query optimization, leveraging SQL, Python, and R to extract, analyze, and visualize data, conduct trend analysis, and perform root-cause investigations.</li><li>Demonstrate expertise in healthcare data interoperability by working with HL7 v2, HL7 FHIR, CDA, and other electronic health information exchange standards, ensuring accurate, secure, and efficient data transmission across systems and stakeholders.</li><li>Lead knowledge-sharing initiatives and manage cross-functional projects as a subject matter expert (SME) by facilitating the eCR/RCKMS Community of Practice (CoP), moderating monthly RCKMS Townhall webinars, mentoring colleagues, and collaborating with informatics and development teams to improve reporting workflows and system performance.</li></ul>	
Epidemiology and Preparedness Division, Epidemiologist Denver Public Health Denver, CO	March 2019 – February 2022
<ul style="list-style-type: none"><li>COVID-19 team lead for case investigations and contact tracing in the City and County of Denver; manage 50 person task force of supervisors, data leads, and interviewers; liaison of relationships between local public health and state public health; develop dashboards of metrics and perform analyses for members of executive leadership and the mayor.</li><li>Conduct surveillance of adverse events related to cannabis use through multiple different data sources including electronic medical records, syndromic surveillance systems, poison center calls, consumer complaints, etc.</li><li>Assess the amount of contaminants in cannabis products at point-of-sale and the potential for adverse events related to the same contaminants when consumed.</li><li>Led epidemiologic response to hepatitis A outbreak in Denver's population of people experiencing homelessness and persons who inject drugs; operations section chief for vaccination deployment to affected populations.</li><li>Served as the CDC COVID-19 Community Based Organization (CBO) Grant Epidemiologist in partnership with the Denver Department of Public Health and Environment, focusing on outreach to underserved communities and the evaluation of collaboration between CBOs and the local public health agency.</li></ul>	

- Manage the Food Source Information (FSI) Wiki by adding new articles, reviewing current articles, keeping the site and articles up to date. Evaluate the usability and schematics of the FSI Wiki as well as the effectiveness when used during an outbreak.
- Administer trainings to public health departments within our CoE Region, trainings include Applied Outbreak Investigation, Epi Ready, and Student Outbreak Response Training.
- Economic Research Service, USDA collaboration:
  - Assist in the data analysis for the updating of the estimates for the cost of foodborne illness.
  - Review updated literature on economic modeling for upcoming analyses of cost.

Department of Research and Planning, Institutional Research Analyst/Adjunct Faculty

November 2013-July 2017

Asheville-Buncombe Technical Community College

Asheville, NC

- Assists with developing, administering, and conducting research and evaluation studies; writes reports associated with these studies.
- Organizes, compiles, analyzes, interprets and presents institutional data related to allocation of resources, staffing, and learning/program outcomes.
- Analyzes data using Statistical Analysis System (SAS), writes reports, and prepares recommendations regarding program development, instruction, policy development, and strategic planning; provides data to planning units as requested.

U.S. Air Force School of Aerospace Medicine, Epidemiologist

June 2012-October 2013

Oak Ridge Institute for Science and Education

Wright-Patterson AFB, OH

- Analyze data from respiratory specimen submission to create verbal and written weekly reports on influenza activity from sentinel sites all over the world using SAS.
- Independently clean, analyze, and interpret complex data for various projects including norovirus, HIV, and respiratory specimen exercise.
- Program development and evaluation of the DoD, Global Laboratory-based, Influenza Surveillance Program according to DoD and IRB standards.
- Infectious disease surveillance on items including but not limited to: gastrointestinal, nosocomial, respiratory, and zoonotic diseases; with prevention measures communicated to bases to lower disease transmission.
- Editor for the U.S. Air Force Public Health Career Field Manager's Newsletter that is delivered quarterly.

## RELEVANT SKILLS

Healthcare Informatics: Electronic Case Reporting (eCR), RCKMS, HL7 v2/v3, FHIR standards

Analytics & Querying: SQL, Python, R, SAS, SPSS, PowerBI, stored procedures, table creation, indexing, query optimization

Data Management: Large database handling, data verification, cleansing, integration, and modeling

Statistical Techniques: Trend analysis, root-cause analysis, data mining, predictive analytics

Project Leadership: Cross-functional collaboration, webinar facilitation, team mentoring, stakeholder engagement

SAS Base Programmer for SAS 9 Certified: License BP048081v9

Microsoft Office: Advanced in all programs of the software package

## PUBLICATIONS

Podewils LJ, Burket TL, Mettenbrink C, Steiner A, **Seidel A**, Scott K, Cervantes L, Hasnain-Wynia R. *Disproportionate Incidence of COVID-19 Infection, Hospitalizations, and Deaths Among Persons Identifying as Hispanic or Latino — Denver, Colorado March–October 2020*. MMWR Morb Mortal Wkly Rep 2020;69:1812–1816.

**Seidel AK**, Schetzina KE, Freeman SC, Coulter MA, & Colgrove NC. *Comparison of Breastfeeding Knowledge, Attitudes, and Beliefs Before and After Educational Intervention for Rural Appalachian High School Students*. Southern Medical Journal. 2012, 106(3).

## PRESENTATIONS

**Seidel AK**, Davidson AJ, Lee DM, Lavaux KS, Pruckler R, Ophaug SE, McClung M, Podewils LJ. (Oral Presentation, June 2019). Weeding out Contaminants: An Assessment of Pesticides and Microbials in Marijuana Products Sold in Denver Colorado. Council for State and Territorial Epidemiologists, Raleigh, NC.

**Seidel AK**, Canas L, Yohannes R. (Poster, June 2013). Viability of Archived Respiratory and Influenza Specimens Used for Laboratory Preparedness Exercise. Council for State and Territorial Epidemiologists, Pasadena, CA.

**Seidel AK**, Schetzina K, Freeman S, Coulter M, & Colgrove N. (Oral Presentation, April 2012). Comparison of Breastfeeding Knowledge, Attitudes, and Beliefs Before and After Educational Intervention for Northeast Tennessee High School Students. Appalachian Student Research Forum, Johnson City, TN.

- Awarded 1<sup>st</sup> place among Master's level students in the Oral Presentation category

Khoury AJ, Hillhouse JJ, **Seidel AK**. (Poster, October 2011). An Innovative Systems-Based Conceptual Framework of Physician Cancer Screening Decision-Making. American Public Health Association, Washington, DC.