

Data Analyst Internship

Analyze Early Childhood Data for a Primary Care Program on US-Mexico Border

Summer 2020

Chiricahua Community Health Centers Inc. (CCHCI) seeks a graduate student with an interest in research methodology, experience in biostatistical analysis, and self-driven initiative to assist in research and evaluation on an early childhood program on the US-Mexico border.

Organization Background:

CCHCI was established in 1996 as the only community health, migrant health, and public housing health center in Cochise County, Arizona. Located in southeast Arizona, the County shares 100 miles of the US-Mexico border, with the town of Douglas as the largest border crossing. Since 2018, one of CCHCI's clinics in Douglas has implemented an innovative community initiative named First Three.

Focusing on improvements in early child development and parental stress, First Three restructures well child care visits into home visits and group visits, all while teaching a curriculum on brain development. Since its onset in 2018, First Three has served over 125 families in the program, using the first 1.5 years as a trial period. The program has attracted statewide attention as this new model of health delivery could transform early childhood pediatric care if effective.

Internship Opportunities:

Evaluation of the First Three program is currently underway. CCHCI seeks support in data analysis and program evaluation from June to August 2020.

Our retrospective dataset includes over 700 patients from the first 1.5 years of program implementation. We seek assistance in analyzing this dataset for key outcomes of interest, including parental behaviors, child cognitive development, parental stress and child's physical health, and exploring associations of outcomes with socio-demographic factors.

In addition, since January 2020, First Three has been undergoing a prospective evaluation with more clinically relevant data. This offers the opportunity for data analysis as well as assessment and input in research methodology.

Finally, CCHCI is interested in evaluating the experience of parents during COVID-19, comparing parents in the First Three program with parents outside the program. This offers the opportunity for partnership in creation of a research project and eventual data analysis.

Specific Responsibilities of Graduate Student:

1. Statistical analysis of retrospective data to evaluate First Three program at the direction of research team
 - a. Label data and develop a variable codebook/data dictionary
 - b. Undertake analysis of the retrospective data to report levels of all indicators and estimate impact of intervention on key outcome indicators
 - c. Develop a set of files with statistical software commands to allow for such analysis to be replicated
2. Participate in regular phone or video meetings with CCHCI team, as requested
3. Provide statistical input in the design of the prospective First Three research project and the COVID-19 research, focusing on basic study design
4. Actively collaborate in the preparation of the preliminary data analysis plan for the First Three prospective study and COVID-19 research study
5. Preparation of brief report with table and graphs/ figures summarizing data analysis results
 - a. This includes detailed description of the analysis methodologies used
 - b. This could include a detailed analysis of results
6. Utilize local resources and professors to ensure accuracy, thoroughness, and completeness of data analysis
 - a. Use this as an opportunity for personal and professional growth while also ensuring your priority is accuracy for CCHCI

Qualifications:

- Strong foundation in biostatistics and epidemiology
- Experience with statistical software of your choice (Stata, SAS, SPSS, R, etc.)
- Experience in data analysis with healthcare data and program evaluation preferred
- Experience working on IRBs and manuscript preparation preferred.
- Strong interpersonal skills and ability to communicate remotely to ensure a good working relationship with the team at CCHCI
- Interest in rural health, border health, children's health, and/or early childhood development preferred
- Patience, culturally competency, and independence. Self-driven initiative.

Time Requirement:

Interns must be available for a minimum of 20 hours per week for at least 2 months between June-August 2020. The internship will be completed remotely.

Compensation:

A \$1500 stipend will be provided to intern for the summer term (2 months). The internship can be extended based on student interest and CCHCI need, with further compensation available, including the potential for collaboration around written reports, oral presentations, and publications.

Supervision:

You will be part of CCHCI's research team led by Jeffrey Holzberg MD MSc FAAP. Direct oversight will be by Rosemary Acosta Wright MPH.

Application Contact Information:

If interested, email: 1- CV or resume, 2- Cover letter (1-2 paragraphs about interested and experience), 3- Hours available, 4- Additional comments

Rosemary Acosta Wright at racostawright@cchci.org or 609-751-1012.