Job Description

**Statistician - 73118**

**Description**

Stanford University, School of Medicine's Department of Pediatrics, Division of Neonatal and Developmental Medicine and the Stanford Center for Population Health Sciences (PHS) seek a Statistician for a study funded by the Gates Foundation using existing data to investigate relationships between social norms and adolescent health behaviors and outcomes. This research explores associations between social/gender norms and adolescent health behaviors and outcomes using existing data. Use of existing data is likely to yield actionable information relatively more rapidly than an open-ended, exploratory prospective research approach, which may yield extremely valuable information but requires a much longer period of time and greater financial investment. This position will work with the PI and other members of the study team to conduct statistical analyses on a large number of harmonized datasets from low and middle income countries (including DHS and MICS, among several others). The candidate will serve as one of the core analysts on the study team.

This is an excellent opportunity available for a motivated individual interested in adolescent health or pediatrics, population health, global health or epidemiology with extensive experience managing databases in a health research setting. This individual will work closely with the Data Core Team on analyses using a variety of publicly and non-publicly available sources.

This study seeks to describe associations between social/gender norms, health behaviors/outcomes, and other characteristics. The successful candidate will be familiar with the challenges of making causal inferences from observational data and strategies for these types of studies. This position will explore methods that take account of the DHS's sampling frame and nature as a repeated cross-sectional survey, such as methods commonly used by econometricians to evaluate the impact of policies or large-scale government programs e.g., difference-in-differences, regression discontinuity and instrumental variables. Applicants will be asked to submit a standardized statistics sample.

Excellent verbal and written communication skills are desired in order to provide feedback to members of the scientific community to facilitate the description of data, effectively provide documentation and specifications to co-workers during research development, and contribute the drafting of scientific literature and grant applications using results from analyses.

Previous experience working in an academic environment is strongly desired. The work will take place in a dynamic environment where specifications often change rapidly in response to demand, so the candidate must be able to be flexible. The successful candidate will work at the Stanford University in Palo Alto, California. Complies with and supports University and government health and safety regulations and policies.

Duties include:

- Work with the Data Manager to reshape, standardize and harmonize a large number of DHS, MICS and other datasets from low and middle income countries. Develop data harmonization protocols using intermediate level database design and programming techniques.
- Develop and implement protocol for quality control.
- Create analytic files with detailed documentation.
- Select appropriate statistical tools for addressing a given research question.
- Implement data analysis through statistical programming.
- Present results for investigators using graphs and tables.
- Summarize findings orally and in written form.
- Participate in the preparation of papers for publication.
- Consult with investigators on appropriate statistical approaches to data analyses; assist in study design and proposal development.
• Mentor collaborators in areas of experimental design, quality control, and statistical analysis
• Develop oral and written dissemination of findings for conference presentations and peer-reviewed journal articles.
• Oversee lower-level staff on issues related to quality control and creation of analysis files.

* - Other duties may also be assigned

Qualifications

DESIRABLE QUALIFICATIONS:

EDUCATION & EXPERIENCE (REQUIRED):

Master's degree in biostatistics, statistics or related field and at least 3 years of experience.

KNOWLEDGE, SKILLS AND ABILITIES (REQUIRED):

• Proficient in at least two of R, SAS, SPSS, or STATA.
• Skills in descriptive analysis, modeling of data, and graphic interfaces.
• Outstanding ability to communicate technical information to both technical and non-technical audiences.
• Demonstrated excellence in at least one area of expertise, which may include coordinating studies; statistical methodology such as missing data, survival analysis, statistical genetics, or informatics; statistical computing; database design (e.g., expertise in RedCAP or MySQL); graphical techniques (e.g., expertise in Illustrator).

CERTIFICATIONS & LICENSES:

None

PHYSICAL REQUIREMENTS*:

• Frequently perform desk based computer tasks, seated work and use light/ fine grasping.
• Occasionally stand, walk, and write by hand, lift, carry, push pull objects that weigh up to 10 pounds.

* - Consistent with its obligations under the law, the University will provide reasonable accommodation to any employee with a disability who requires accommodation to perform the essential functions of his or her job.

WORKING CONDITIONS:

May work extended or non-standard hours based on project or business cycle needs.

Job Information Analytics
Location School of Medicine
Department URL: http://pediatrics.stanford.edu/
Schedule Full-time
Grade: 1
Job Description

Data Manager - 73119

Description

Stanford University, School of Medicine’s Department of Pediatrics, Division of Neonatal and Developmental Medicine and the Stanford Center for Population Health Sciences (PHS) seek a Data Manager for a study funded by the Gates Foundation using existing data to investigate relationships between social norms and adolescent health behaviors and outcomes. This research explores associations between social/gender norms and adolescent health behaviors and outcomes. This research explores associations between social/gender norms and adolescent health behaviors and outcomes. This research explores associations between social/gender norms and adolescent health behaviors and outcomes. This research explores associations between social/gender norms and adolescent health behaviors and outcomes.

This is an excellent opportunity available for a motivated individual interested in adolescent health or pediatrics, population health, global health or epidemiology with extensive experience managing datasets in a health research setting. This individual will work closely with the Data Core Team on analyses using a variety of publicly and non-publicly available sources.

The successful candidate will develop expertise in data harmonization, particularly for data from low and middle income countries and research and acquire other datasets which are relevant to the study. This study seeks to describe associations between social/gender norms, health behaviors/outcomes, and other characteristics. Ideally, the candidate will be familiar with the challenges of making causal inferences from observational data and strategies for these types of studies.

This is an excellent opportunity available for a motivated individual interested in population health, global health or epidemiology with extensive experience managing databases in a health research setting. This individual will work closely with the Data Core Team on analyses using a variety of publicly and non-publicly available sources.

The Data Manager will construct relational databases and be the primary person in charge of database architecture for a number of large claims and other types of datasets amassed by PHS.

Excellent verbal and written communication skills are desired in order to provide feedback to members of the scientific community to facilitate the description of data, effectively provide documentation and specifications to co-workers during research development, and contribute the drafting of scientific literature and grant applications using results from analyses.

Previous experience working in an academic environment is strongly desired. The work will take place in a dynamic environment where specifications often change rapidly in response to demand, so the candidate must be able to be flexible. The successful candidate will work at the Stanford University in Palo Alto, California. Complies with and supports University and government health and safety regulations and policies.

Duties include:

- Reshape, standardize and harmonize a large number of DHS, MICS and other datasets from low and middle income countries. Develop data harmonization protocols using intermediate level database design and programming techniques.
- Develop and implement protocol for quality control.
- Create analytic files with detailed documentation.
- Select appropriate statistical tools for addressing a given research question.
- Implement data analysis through statistical programming.
- Present results for investigators using graphs and tables.
- Summarize findings orally and in written form.
- Participate in the preparation of papers for publication.
- Consult with investigators on appropriate statistical approaches to data analyses; assist in study design and proposal development.
- Mentor collaborators in areas of experimental design, quality control, and statistical analysis
- Develop oral and written dissemination of findings for conference presentations and peer-reviewed journal articles.
- Participate in the preparation of papers for publication.
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* - Other duties may also be assigned

Qualifications

DESIRED QUALIFICATIONS:

EDUCATION & EXPERIENCE (REQUIRED):

Master's degree in biostatistics, statistics or related field and at least 3 years of experience.

KNOWLEDGE, SKILLS AND ABILITIES (REQUIRED):

- Proficient in at least two of R, SAS, SPSS, or STATA.
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accommodation to perform the essential functions of his or her job.

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Job Information Analytics
Location School of Medicine
Department URL: http://pediatrics.stanford.edu/
Schedule Full-time
Grade: I