

Postdoctoral Research Fellow in Biostatistics

Company Information

The University of Pennsylvania (Penn) and Children's Hospital of Philadelphia (CHOP) provide an outstanding training environment for biomedical research. Penn's Perelman School of Medicine is an internationally recognized leader in the creation of new knowledge and top-ranked medical schools in the United States. CHOP is an independent hospital affiliated with Penn's School of Medicine, and the CHOP Research Institute is home to one of the largest government- and foundation-supported pediatric research programs in the country. There are countless collaborations among faculty from different departments at Penn and CHOP to conduct research through resource sharing and interdisciplinary communication. Several Centers of Excellence house groups of researchers with deep expertise in specialized areas, including therapeutic effectiveness research, causal inference, statistics in Big Data, statistics in imaging and visualization, precision medicine, and pediatric nephrology. Postdoctoral research fellows can therefore easily take advantage and build an academic network to support their long-term career goals.

Duties and Responsibilities

The postdoctoral fellow will conduct comparative effectiveness research and biomarker discovery in kidney disease observational cohort studies. The fellow will be responsible for developing novel causal inference approaches for modeling recurrent events, including establishment of theoretical properties, testing with simulation studies, and software development. Applied research includes integration and analysis of high-dimensional data from clinical, pathology, transcriptomic, and genetic data domains. Opportunities for computational image analysis and other machine learning methods are also available.

The fellow will work primarily with Dr. Jarcy Zee and collaborate with clinical researchers at Penn, CHOP, and other academic institutions. The fellow is expected to lead multiple research projects and contribute to abstracts and manuscripts while working in a team environment.

Position Qualifications

- Doctoral degree in statistics, biostatistics, or a related quantitative field
- Strong theoretical training in statistics and computing
- Excellent oral and written communication skills
- Experience writing scientific papers
- Experience in statistical theory and methods development
- Experience in causal inference, machine learning, and/or comparative effectiveness research is preferred

The position is available immediately and for up to three years. Candidates who identify as women or are from underrepresented minority groups are encouraged to apply.

Benefits

As a CHOP employee, the postdoctoral research fellow will have access to the full employee-level benefit package including health, dental and vision insurance, retirement plan, paid leave/vacation time and commuter benefits.

Application Instructions

Please send a CV and two sample publications/manuscripts to Dr. Jarcy Zee (Jarcy.Zee@Pennmedicine.upenn.edu) with subject line: 2021 Postdoc Position. Applications will be reviewed until the position is filled.