The Johns Hopkins Center for Population Health IT (CPHIT) seeking postdoc trainees in Population Health/Population Health Informatics

The Johns Hopkins Center for Population Health IT (CPHIT) is seeking a postdoctoral trainee to collaborate with faculty doing research and development work in the field of population health informatics / computer science applied to population health and health care.

CPHIT is based at the Johns Hopkins University (JHU) Bloomberg School of Public Health Department of Health Policy and management and collaborates closely with other departments at the Schools of Public Health, Medicine, and Nursing on the Medical campus, as well as the Department of Computer Science on JHUs Arts & Science/Engineering campus. CPHIT also collaborates closely with the Johns Hopkins Health Systems and several leading integrated delivery systems and government health agencies.

More information on the available resources at:
          CPHIT: www.jhsph.edu/cphit
          JHU: https://publichealth.jhu.edu/departments/health-policy-and-management
          Biomedical Informatics and Data Sciences: http://dhsi.med.jhmi.edu
          The Department of Computer Science: http://www.cs.jhu.edu/

This Post-Doc position represents a unique opportunity to gain mentored experience working within one of the largest and most highly regarded health related research universities in the world. The candidate will have the opportunity to work closely with health informatics, computer science, methodologies, public health and medical faculty undertaking a wide array of information science related projects focusing on the application of electronic health records, electronic health care administrative records, and consumer e-health/m-health data applied to the improvement of health care systems, public health agencies and programs that target the "population health" of communities and target consumer groups. CPHIT is also closely affiliated with the Johns Hopkins ACG R&D team that is a global leader in health care risk adjustment and predictive analytics. ACGs are an advanced predictive analytics software tool (http://acg.jhsph.org/).

We are seeking someone with a doctoral level degree and advanced training and/or experience in a data/information science discipline. Ideally, the candidate will have extensive experience working with digital health or health care data. Familiarity with the US health care system is preferred.

To be eligible for this post doc position the candidate should have:

- Background (with a terminal degree):
    - Informatics
    - Statistics / Biostatistics
    - Computer Sciences
    - Health services research

- o Population health management
- o A highly relevant field (e.g., econometrics)

Preference will be given to candidates with the following experience:

- Research Domains:
  - o Population health analytics (e.g., risk stratification, utilization prediction)
  - o Advanced predictive modeling (e.g., complex regressions, machine learning, causal inference)
  - o Data quality and phenotyping (e.g., data missingness and patient identification)
  - o Healthcare disparities and social determinants of health (e.g., ADI and health outcomes)
  - o Specialized models to predict utilization in mental health populations
  - o Extracting additional predictors from EHR's free text (e.g., NLP to identify frailty)
- Technical Skills:
  - o Statistical/analytic: R, SAS, Python
  - o Database management: SQL (optional)
- Data Source Experience:
  - o Electronic health records
  - o Insurance claims
  - o Social determinants of health (e.g., neighborhood/community specs)

It is expected that this position will offer the candidate many opportunities for career development including considerable potential to participate in peer reviewed publications. Since advanced knowledge of English is a requirement, the applicant must have one or more degrees from an English speaking university or several years of work experience in an English speaking setting.

CPHIT follows all protocols and regulation around compensation for postdocs as laid out by the university and applicants experience. JHU has a vibrant academic community of graduate students and post-docs from across the US and around the globe. The post doc will be able to take (on a non-degree basis) graduate level classes in health informatics , computer science, public health, or business at the Johns Hopkins University that the candidate .

The position can start Jan 2023. The position is for two years, though extensions may be possible.

The Johns Hopkins University embraces human diversity and is committed to equal employment opportunity, affirmative action, and eliminating discrimination.

To apply to this position please send CV and cover letter to Dr. Hadi Kharrazi (kharrazi@jhu.edu).