**POSTDOCTORAL POSITION IN PRECISION ONCOLOGY DATA SCIENCE**

The Kuhn-Hicks laboratory at USC is a leader in mathematical oncology for predictive mapping of cancer progression and treatment response. The laboratory uses clinical, demographic, and single cell morpho-proteo-genomic data to build predictive models to aid in improving patient care and outcomes.

Our rapidly growing team is looking for a postdoctoral fellow with expertise in data science to apply machine learning concepts to analyze clinical, liquid biopsy, and real-world evidence data sets. A successful candidate will have the determination to improve outcomes for cancer patients and discover novels ways of applying data simulation, machine learning, computational and analytical skills to complex data sets.

**Job Responsibilities**

* Research, design, implement and evaluate machine learning algorithms and statistical models for clinical datasets
* Identify technical challenges, define requirements and prioritize efforts to meet deadlines of internal team and external collaborators
* Assist with defining requirements and architectures for next-generation machine learning / statistical analysis products
* Develop model and algorithms, perform exploratory research, and collaborate with engineers as well as fellow data scientists to implement your solutions as products.
* Apply machine learning to build prediction models for cancer treatment and side effects

**Education**

Ph.D. in Computer Science, Engineering, Mathematics, or equivalent.

**Skills and Expertise**

* Minimum 5 years of programming experience
* Experience in the field of data science/data analytics, mathematics, or bioinformatics
* Strong written and verbal communication skills
* Experience in building models and developing algorithms for machine learning, statistics, optimization, and/or simulation
* Experience in SQL, Python, and R

**Work Environment**

Work is in a typical office environment.

**Contact**

Applicants should contact **Prof. Peter Kuhn** at kuhn42@usc.edu.