In the Healthcare Innovation Program Office (HIPO), we connect researchers and industry with the technical expertise and computing resources across the National Center for Supercomputing Application (NCSA) at Illinois.

**HIPO Research Interests in Personalized Nutrition**
- Applying AI & machine learning to food trial data, personalized nutrition monitoring and nutrition literature mining
- Developing genomics and microbiome data analysis tools and frameworks
- Using spatial analysis to develop personalized dietary interventions

**Current Projects Co-funded by HIPO**
- “From Prediction to Intervention: Utilizing Machine Learning for Cognitive Outcome Forecasting following the MIND Diet Intervention.” PI: Prof. Naiman Khan

**Keywords**
AI & machine learning, computing resources & storage, data analytics & engineering, data security, genomics, GIS, image analysis, LLM, software & application development, UI/UX, visualization

**Interest Areas for Collaboration/Future Work**
AI & machine learning applied to multi-omic and multimodal data. Data engineering/management platforms for integrating and sharing data with research communities. Customized UI/UX development for research needs. Behavior modification using mobile apps. Application of data science approaches from other domains to personalized nutrition challenges.