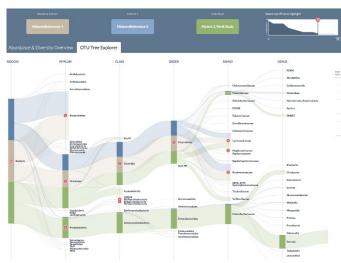# Maria Jaromin

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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.

OMIX Framework by NCSA Visual Analytics

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
- "Development of a culturally-tailored electronic dietary assessment tool to Support Personalized and Inclusive Cuisines in Environments for Healthcare (SPICE-Healthcare)." PI: Prof. Minakshi Raj

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.

Personalized Nutrition Initiative

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