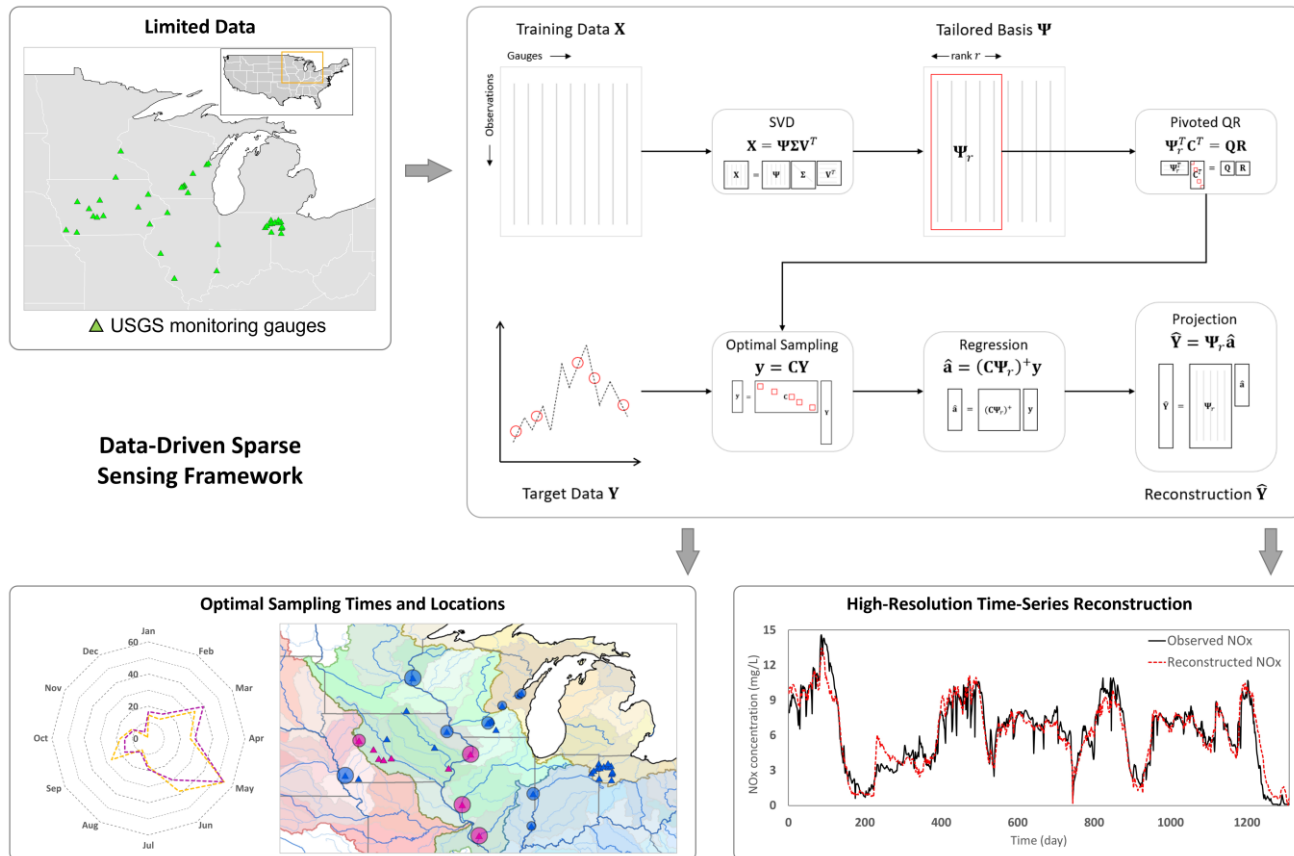# Improved Water Monitoring: Sampling to Track Pollutants and Human Exposure

Fig. 1: Machine learning algorithm to minimize sampling effort for tracking pollutants

Achievements to Date
- Demonstrated 10-100x reduction in sampling effort needed to monitor pollutants and estimate annual pollutant loads
- Developed an algorithm that leverages inexpensive data as proxies for expensive water quality data

Looking Ahead
- Design sensor networks for watersheds and sewer systems
- Reduce uncertainty in data used for water quality trading and other management programs

PhD Student Benjamin Bodus collecting stormwater samples

Undergradaute student Casey Carlson testing water quality samples