

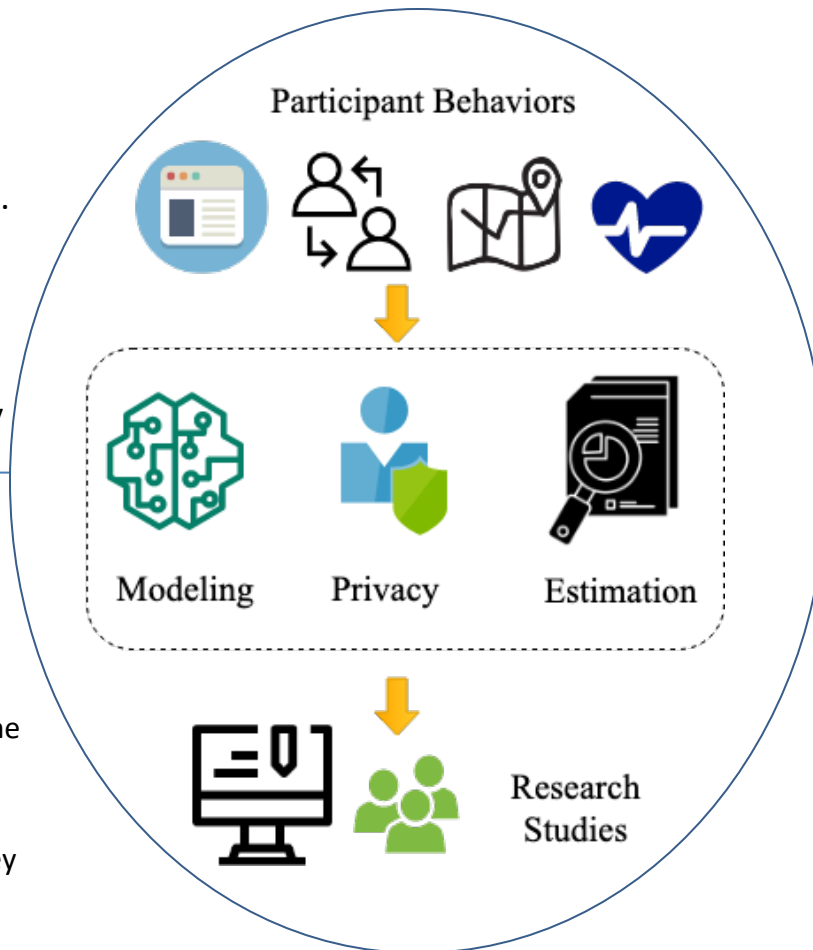
Privacy-Preserving Mobile Data Collection for Social and Behavioral Research

Challenge:

- With more research studies incorporating participants' smartphone sensor and usage data, individual privacy has become a serious concern.
- How to address participant privacy concerns in smartphone studies?
- How to ensure meaningful research results while honoring participant privacy preferences?

Solution:

- Study privacy-preserving methods for smartphone data types and develop open-source tools
- Study participant privacy concerns regarding smartphone studies
- Conduct a case study on refugee vocational behavior, which incorporates both survey and smartphone behaviors



Scientific Impact:

- Bridge privacy enhancing technologies and social & behavioral research by focusing on usefulness and limitations
- Advance the understanding of participant privacy concerns in smartphone studies
- Advance privacy enhancing technologies for behavioral data

Broader Impact and Broader Participation:

- Facilitate smartphone research in a wide of range of domains
- Build trust between participants and researchers
- Provide research training to students, including those from under-represented groups