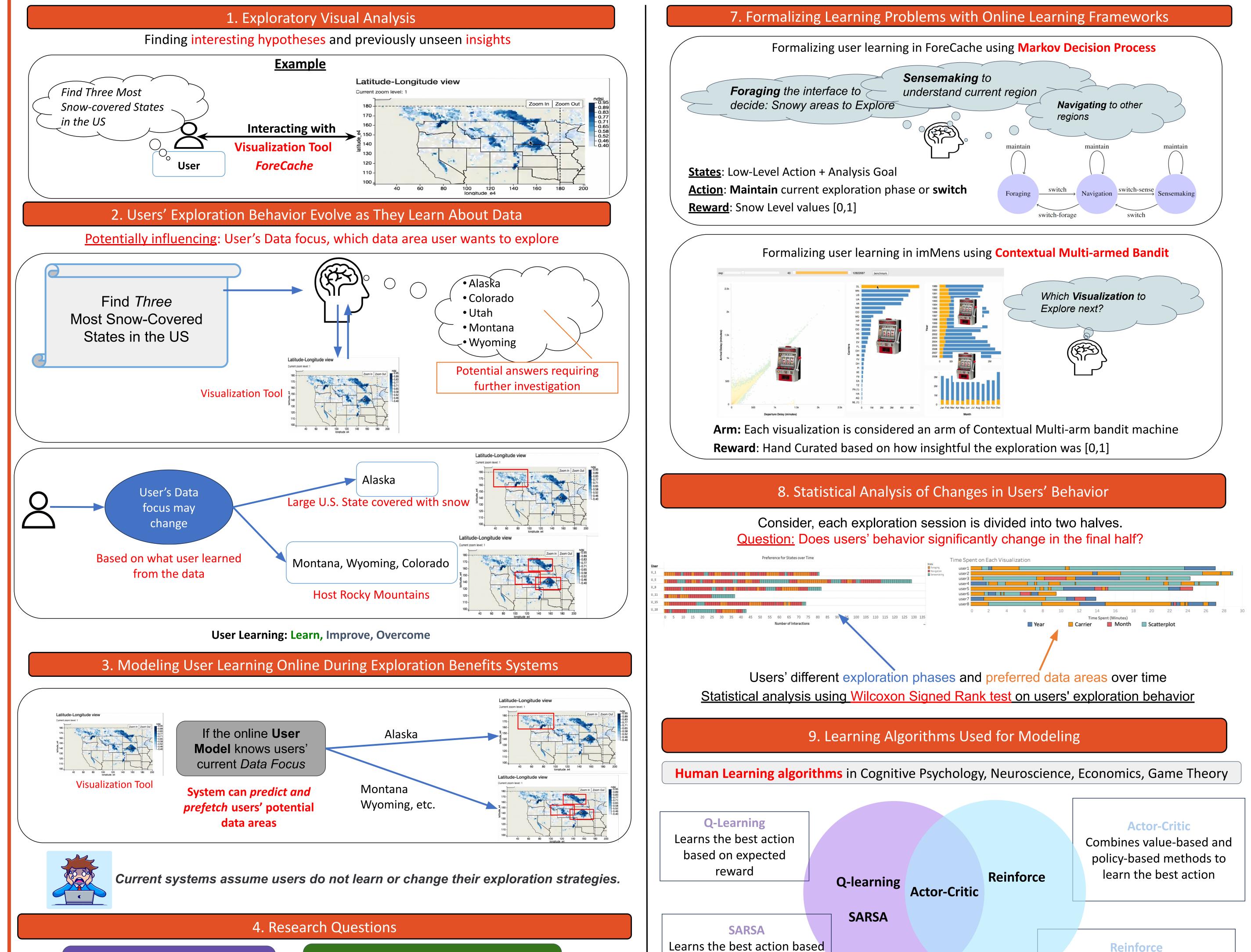


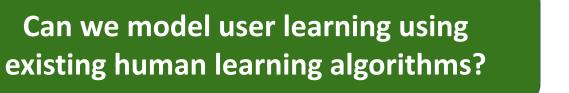
How Does User Behavior Evolve During Exploratory Visual Analysis?

Sanad Saha*, Nischal Aryal*, Leilani Battle, Arash Termehchy





How does users' exploration behavior evolve?

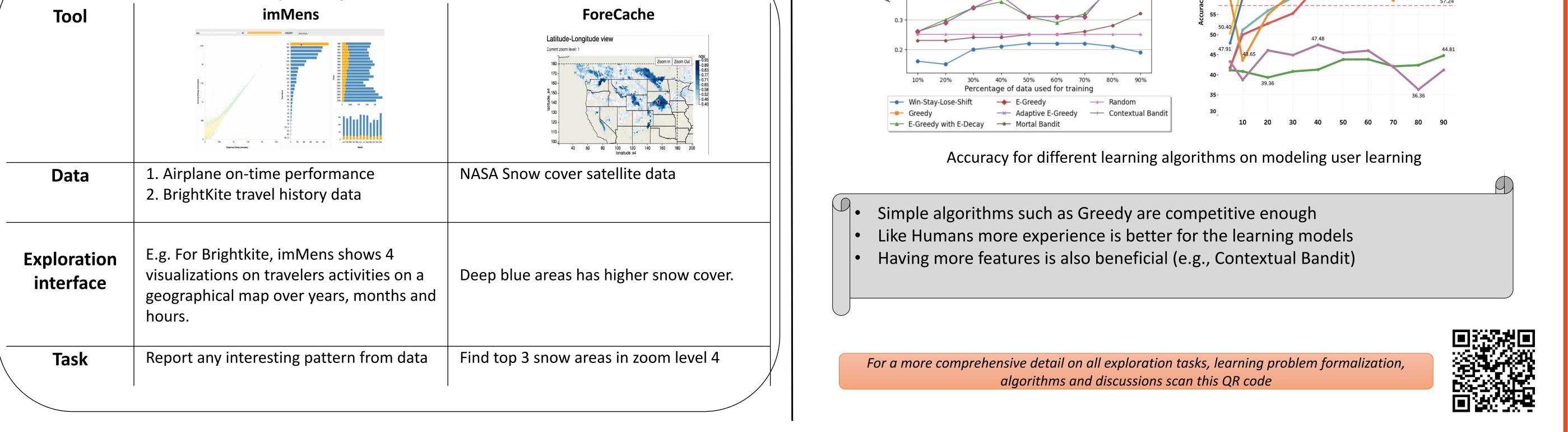


5. Analyzing User Behavior on Diverse Exploration Tasks

Exploration task characteristics that may influence user behavior

- •Open-endedness: Clarity of task objectives
- •Prior Experience: Familiarity with the dataset, task, and interface.
- •Time-Restriction: Time limit for task completion
- •Tool Complexity: Action space, amount of information in the visualization tool

We use widely studied studies from the visualization community encapsulating diverse task characteristics



on a policy and next state-action pair.

Maximizes reward by directly adjusting policy parameters.

Reinforce

Also, Different Multi-Arm Bandit Approaches

10. Evaluation of Modeling Algorithms

Question: How do we check if the algorithms are capturing user learning? **Answer:** Prediction of next action as a **Proxy**

