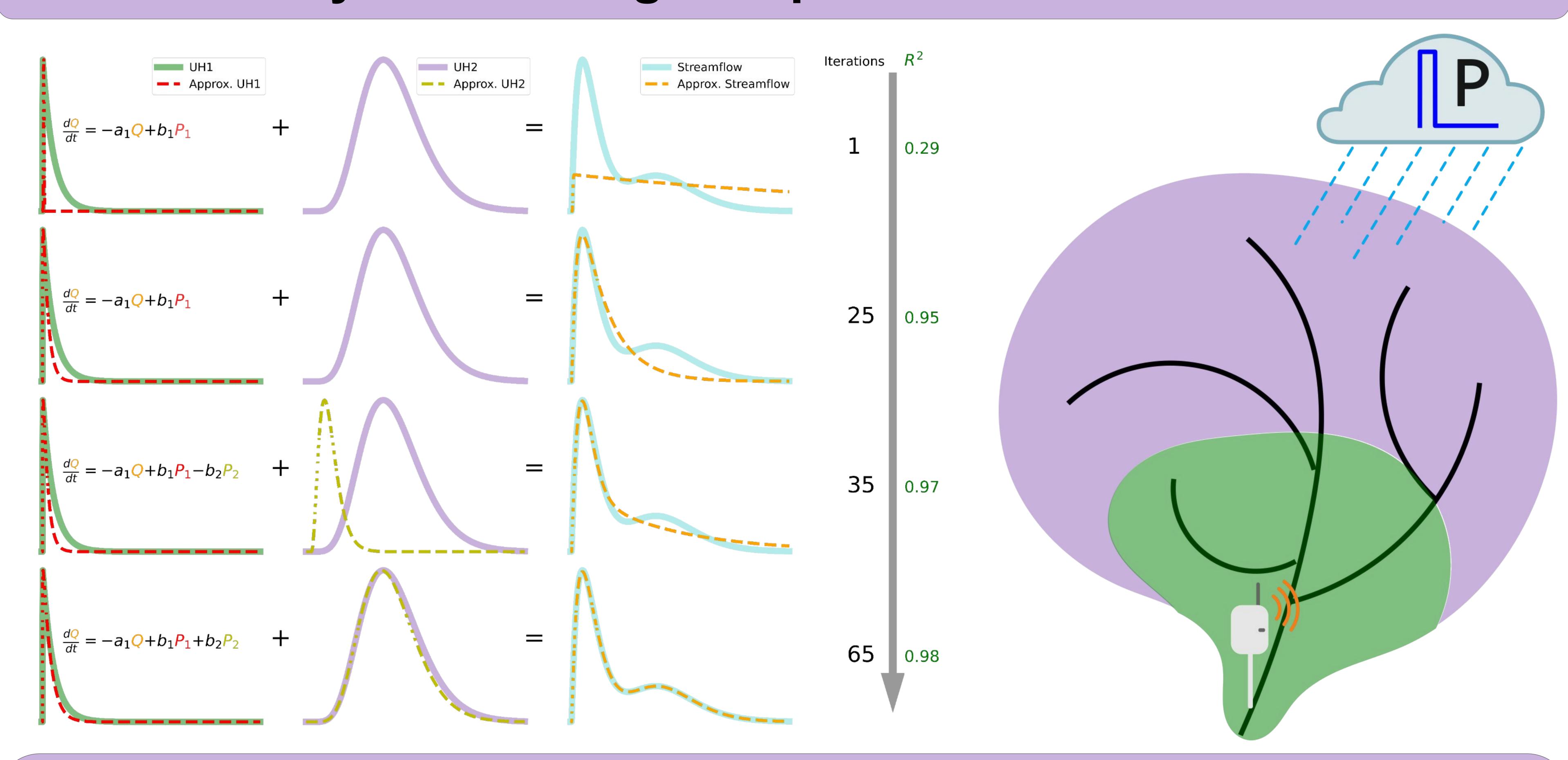
Automatically discovering interpretable rainfall-runoff models

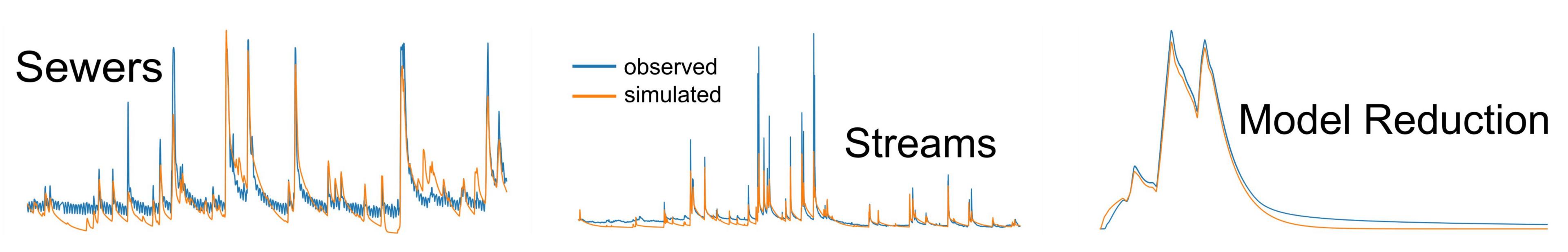


Motivation

- Expanding sensor networks generate more data every day
- Process-based models aren't designed to ingest real-time data
- Machine learning models require tons of data and are hard to interpret

Method

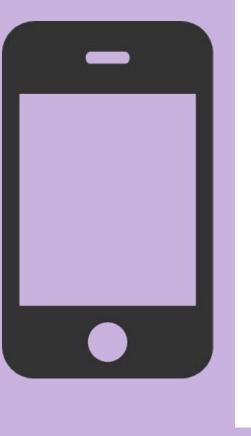
- Precipitation transformed to estimate the unobserved states in the watershed
- These estimates and streamflow data are used to learn a differential equation



Scan for more details!



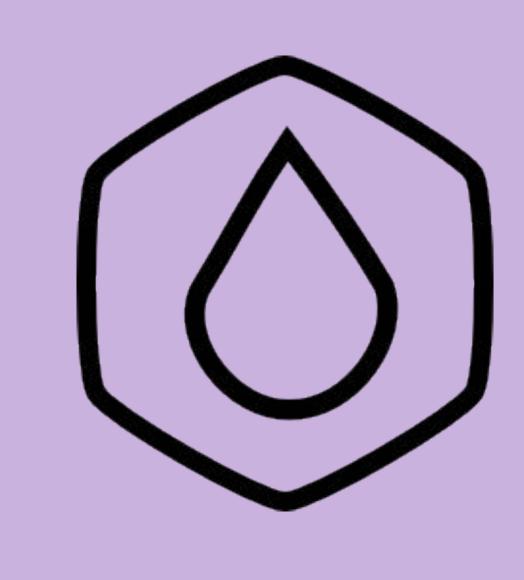
github





preprint

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