The objective of our project is to discern a concentrates. Doing so, will allow current aid in the development of plans to clean

- solute concentration?
- season (fall, spring, winter, etc.)?



labeling points above the read mean flow rate line.

Data Science for Storm Events Andrew Porter, Benjamin Gildersleeve, Mike Ni, Laura Dietz, Adam Wymore

University of New Hampshire Department of Computer Science

Precision (proportion of positive identifications)

Recall

(proportion of actual positives identifies)

Conclusions & Future Work

- storm events
- cyclical basis
- model

- complicated

Wymore, Adam S., et al. "Hysteretic Response of Solutes and Turbidity at the Event Scale Across Forested Tropical Montane Watersheds." Frontiers in Earth Science, vol. 7, 2019, doi:10.3389/feart.2019.00126.



Results

• 97.2% prediction accuracy

o 58.7% accuracy on positive storm events (true storm events that were predicted as

such between sites)

65.56%

58.72%

• 95.69% cross-site prediction accuracy

11.55% on positive storm events

• Flow rate alone is not enough

• Multi-site model bad at predicting positive

• Test trained models for full year instead of

• Include more features into classification

• Train with Z-score normalized data • Gap-filled data produced abnormal trends • Self data cleaning program possible but

References