Testing-the-waters: Prediction of high flow events in blanket bog catchments using MLA for automated event water sampling
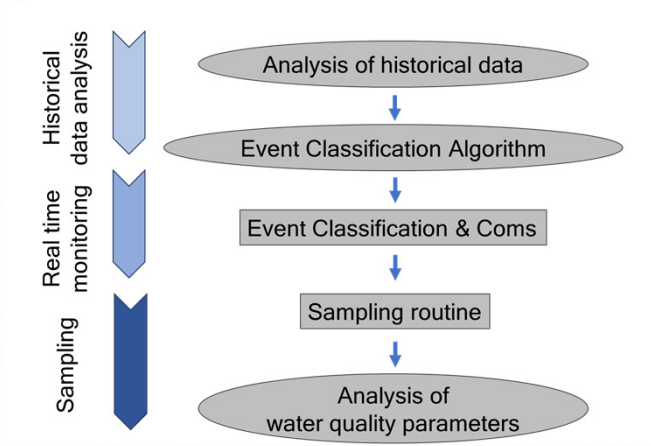
Hannah Lehnhart-Barnett*[1], Raymond Flynn[2], Vicky Preece[2], Devin F. Smith[3], Berry W. Lyons[3], Anne E. Carey[3], Peter Croot[1], Oisín Leonard[1] and Tiernan Henry[1]

*Hannah.Lehnhart-Barnett@universityofgalway.ie

[1] University of Galway, School of Natural Sciences, Ireland, [2] Queen's University Belfast, School of the Natural and Built Environment, UK, [3] The Ohio State University, School of Earth Sciences, USA

Flowchart for an adaptive, event-based sampling protocol

Testing set	True 'No event'	True 'Event'
Class 'No event'	95.7%	33.4%
Class 'Event'	4.3%	66.6%

Training and testing binary SVM classification (Event vs No event)