

## Dr. Edward (Ted) Holmberg



Edward (Ted) Holmberg is a Postdoctoral Research Associate and Instructor at the University of New Orleans. He develops stochastic, spatiotemporal multi-agent planning methods that use knowledge graphs to encode policies, hazards, and constraints on time-varying graphs, enabling weighted-recurrence waypointing and long-horizon reward aggregation with online replanning. Separately, he builds physics-informed surrogates for CFD simulators (HEC-RAS, OpenFOAM) to accelerate river stage/flow predictions in support of rapid operational decisions for river infrastructure. His research also includes decision-oriented visualization of model outputs to facilitate operator insight and action.

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