Automatic Weather Station
Present Weather Quality Control for METAR AUTO

**Algorithm (1 minute processing):**
✧ Input / output - Present Weather
✧ Inputs - Visibility (MOR), Air Temperature, Relative Humidity, Rainfall

**Data Points (Aug 2014 to Jul 2016):**
✧ 12 million (1 million per AWS)

**Sensor Topology – 12 stations:**
✧ 3 x co-located FD12P and PWD22
✧ HMP155 – 6 heated, 6 unheated

**Algorithm Changes:**
✧ 86% of observations had no PrWx
  ❖ 0.28% had PrWx added (HZ & BR)
✧ 14% of observations had PrWx
  ❖ 0.5% had PrWx removed
  ❖ 30% were adjusted

**Subsequent Forecaster Changes (3 mths):**
✧ 3.2% of METAR AUTO were further adjusted by forecasters