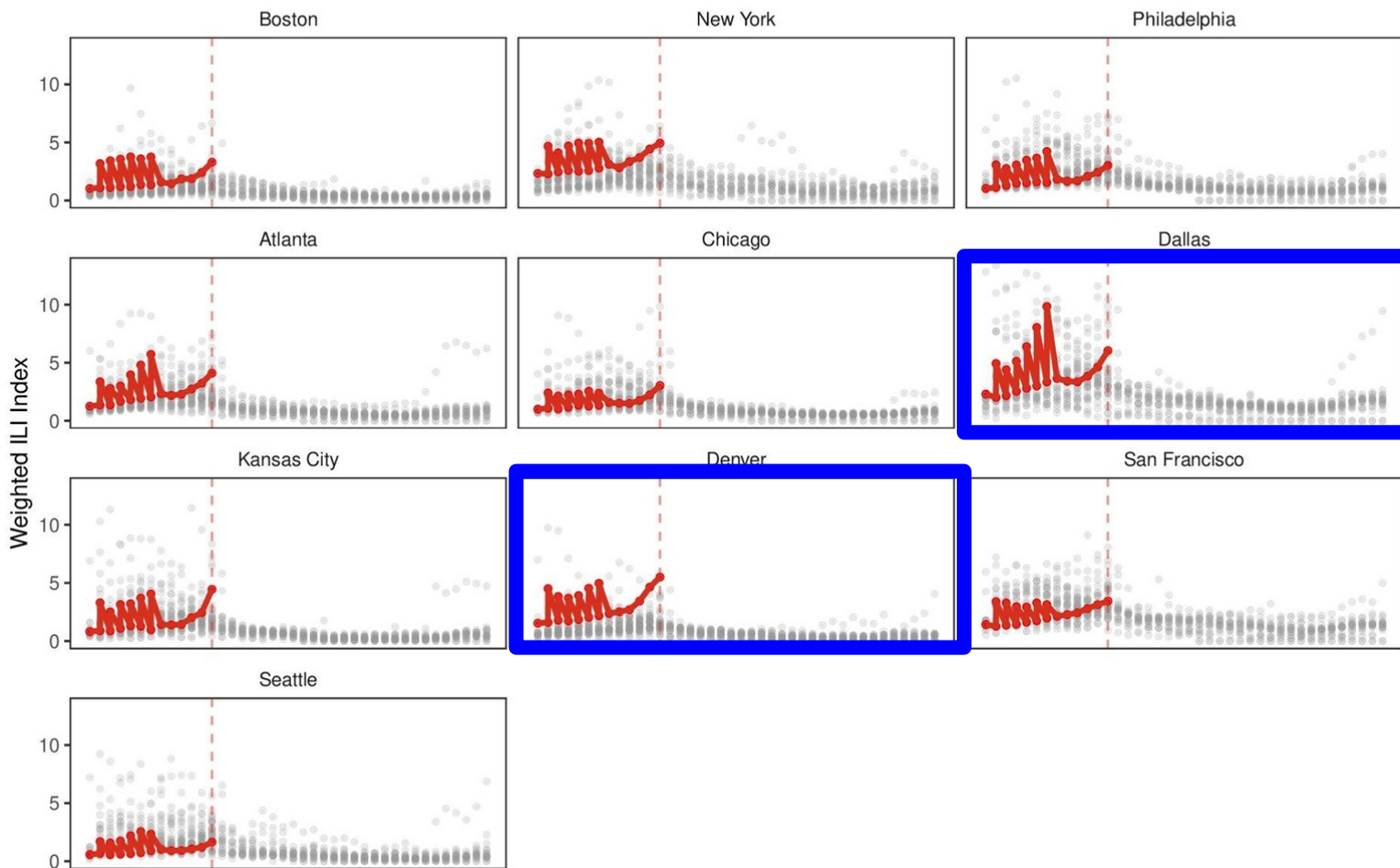


A decorative graphic on the left side of the slide consists of two overlapping parallelograms. The front one is blue and the back one is a light green. They are positioned diagonally, with the blue one partially covering the green one.

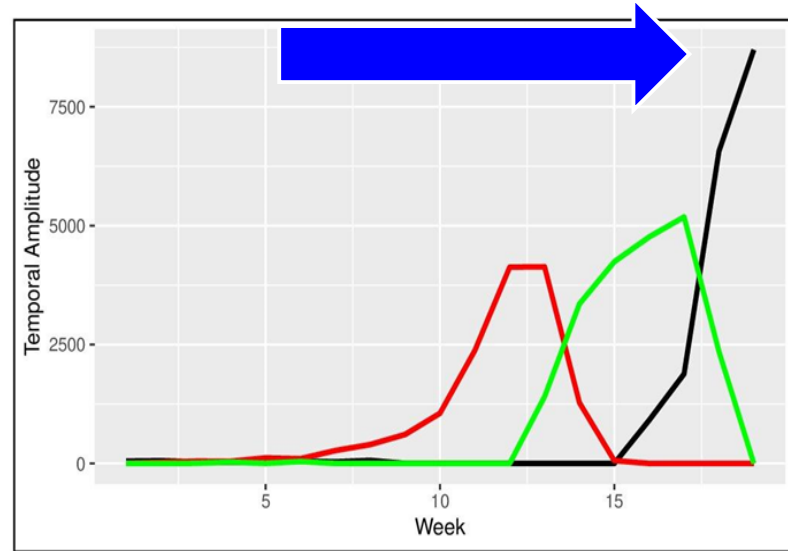
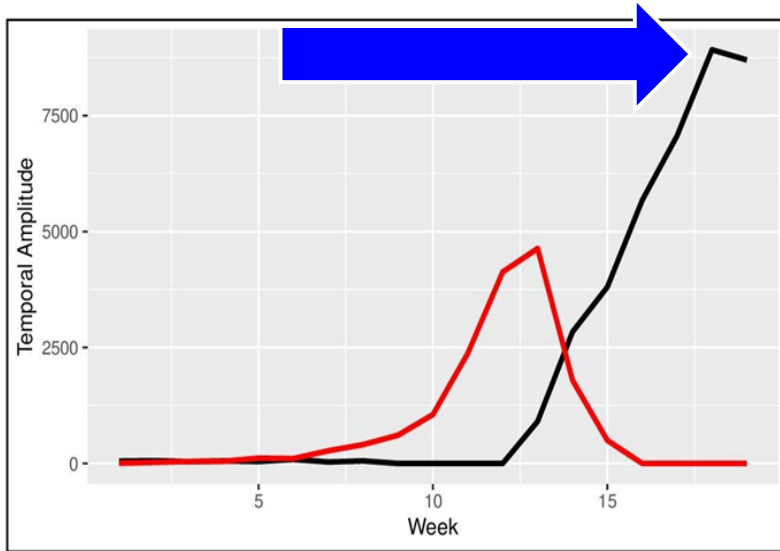
# Tracking influenza on the fly

Jacob C. Miner

ILINet, Flu Seasons (2009–2018)  
Weighted flu index by Metropolitan region  
Ends February 16, 2019)



# Frobenius Loss Function (Rank-2 & Rank-3: Meta-outbreaks)





## Frobenius Loss-Function (2 meta-outbreaks)

State	Meta-Outbreak 1	Meta-Outbreak 2
TX	<b>0.153</b>	<b>0.142</b>
OH	<b>0.091</b>	<b>0.099</b>
NY	<b>0.082</b>	<b>0.069</b>
UT	<b>0.070</b>	<b>0.003</b>
MA	<b>0.057</b>	<b>0.034</b>



## Frobenius Loss-Function (3 meta-outbreaks)

State	M-O 1	M-O 2	M-O 3
NY	0.111	0.067	0.055
OH	0.097	0.099	0.086
UT	0.071	0.001	0.07
TX	0.071	0.146	0.226
MA	0.069	0.032	0.046