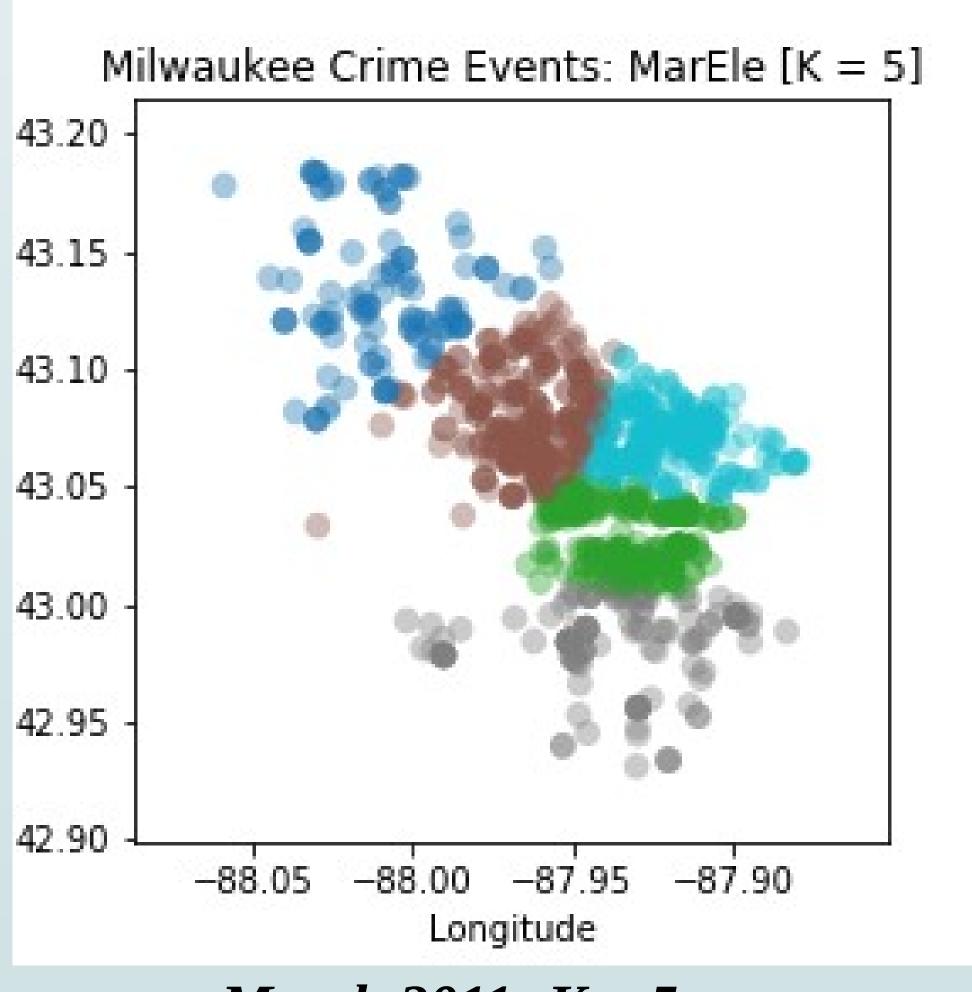
<u>Considering K-means as a Crime Mapping Algorithm</u></u>

Quinci Henry

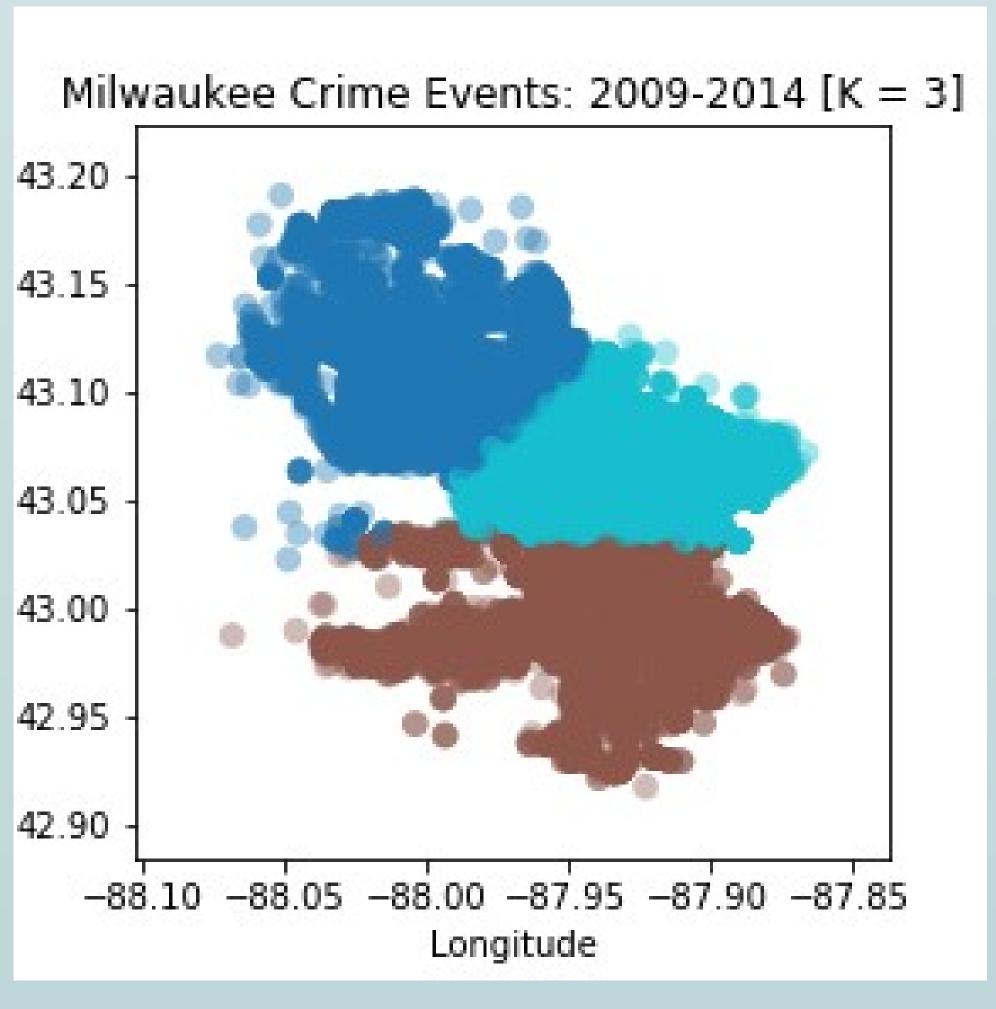
Department of Mathematics Faulkner University quinci.henry@faulkner.edu

Background

Crime mapping determines patrol routes. The Milwaukee police department uses K-means to map crime.



March 2011: K = 5



Full Set (2009-2014); *K* = 3

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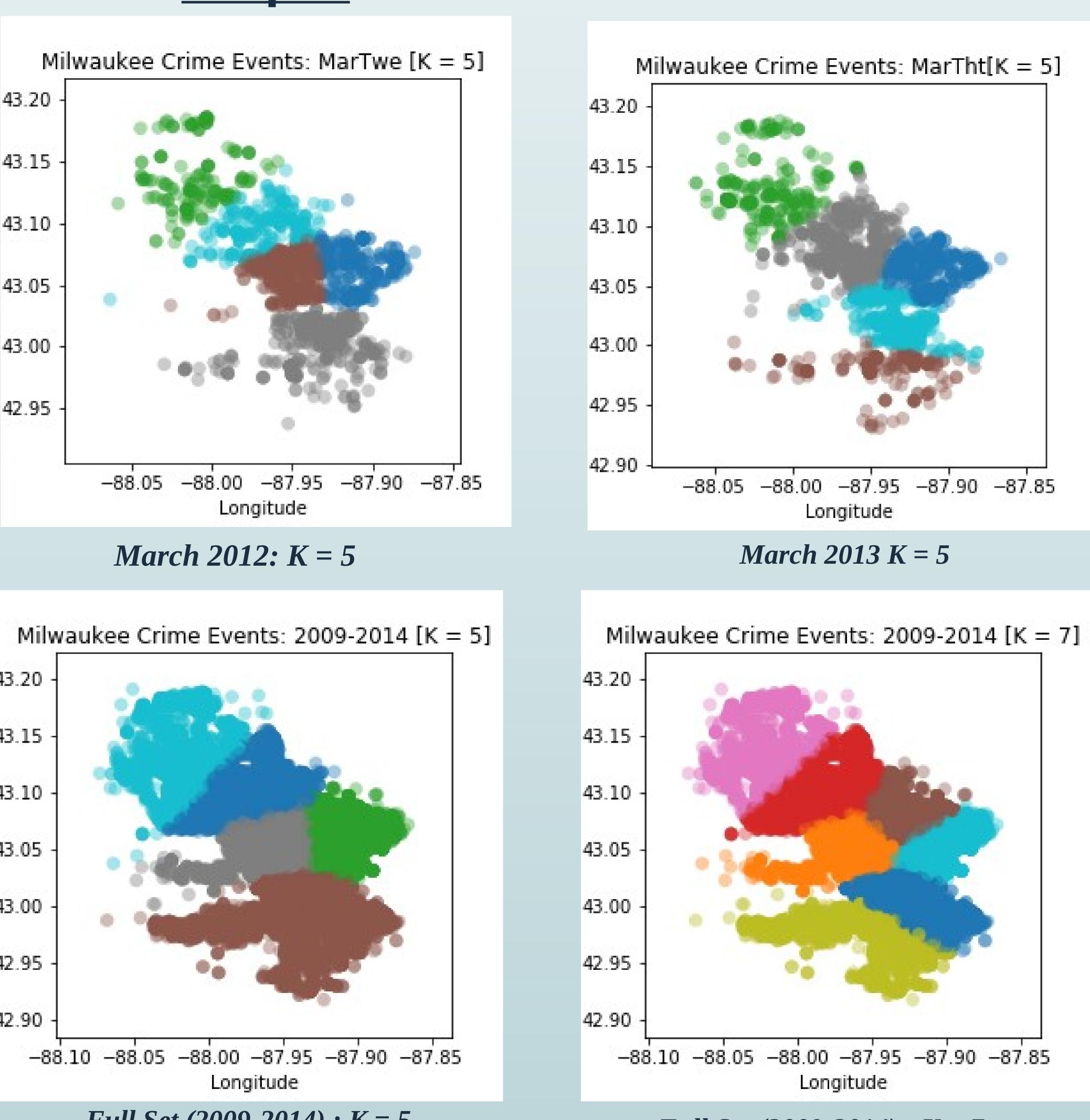
Dr. Shion Guha –

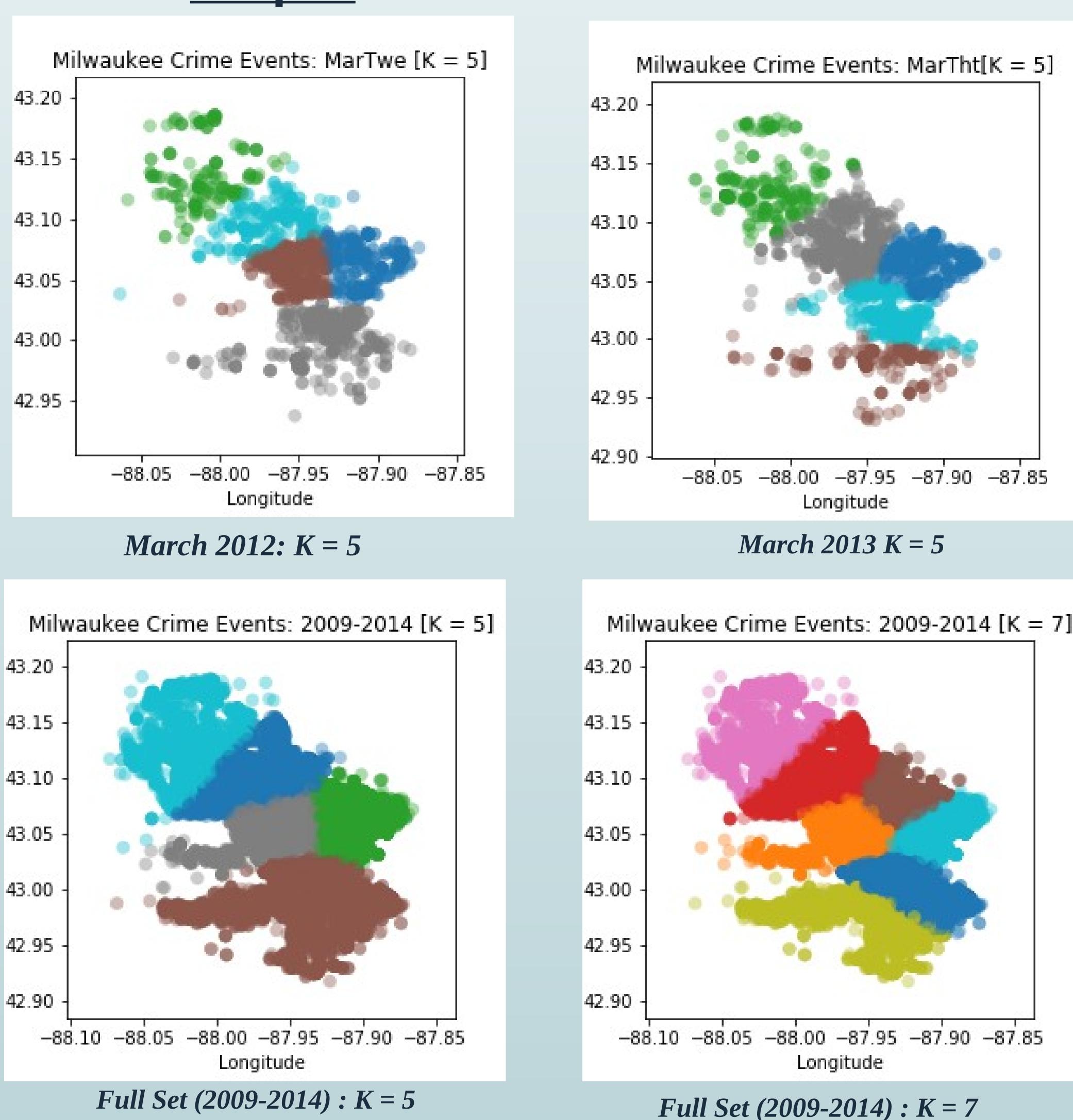
Marquette University shion.guha@marquette.edu

Data

- Data from MKE Circuit and Municipal Courts (2009-2014)
- Latitude and Longitude found using Google API

<u>Graphs</u>







Department of Mathematics, Statistics & Computer Science



Takeaways

Clusters shift as time passes Crime plots of Milwaukee diverge as K varies.