



MARQUETTE  
UNIVERSITY

HELEN WAY KLINGLER  
COLLEGE OF ARTS AND SCIENCES

Department of Mathematics, Statistics and Computer Science

## COLLOQUIUM ANNOUNCEMENT

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### *Functional Data Methods for Replicated Point Processes*

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Department of Mathematical Sciences  
University of Wisconsin – Milwaukee

**2:00 PM, Thursday, October 11, 2018**

Cudahy Hall, Room 401

#### **Abstract**

Functional Data Analysis has traditionally focused on samples of smooth functions. However, many functional data methods can be extended to discrete point processes which are driven by smooth intensity functions. We will review some models that can be used for principal component analysis, joint modelling of discrete and continuous processes, and clustering of spatiotemporal point processes. We will apply these methods to the analysis of spatiotemporal patterns of bike demand in the Divvy bike-sharing system of the city of Chicago.

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1313 W. Wisconsin Avenue, Cudahy Hall, Room 401, Milwaukee, WI 53201-1881

For further information: see <http://www.marquette.edu/mscs/resources-colloquium.shtml>

or contact Dr. Debbie Perouli #414-288-3889, [despoina.perouli@marquette.edu](mailto:despoina.perouli@marquette.edu)

*POST COLLOQUIUM REFRESHMENTS SERVED IN  
CUDAHY HALL, ROOM 342 AT 3:00 P.M.*