MARQUETTE
UNIVERSITY

HELEN WAY KLINGLER
COLLEGE OF ARTS AND SCIENCES

Department of Mathematics, Statistics and Computer Science

# COLLOQUIUM AND Q&A

## *Mathematics: It's What's for Diner*

### Ryan Croke
Applied Mathematician
Chefsteps

### 3:30 PM, Thursday, January 26, 2017

### Cudahy Hall, Room 412

### Abstract

At Chefsteps I use the tools of mathematics, statistics and computer science to solve real-world problems. Chefsteps was founded on the idea of using innovative technology and design to improve the cooking experience. I will detail a few examples of how the mathematics team has done this, and some of our plans for the future. Most of the talk will focus on two topics: (1) The mathematics of Sous-Vide cooking, and (2) our research and work into nonlinear Kalman Filters and why we need them. Time permitting we can talk about some smaller projects such as our work with signal processing for MEMS sensors, how we account for hardware discrepancies, and thermal modeling. I will also touch on the start-up scene in Seattle and how mathematics is needed in the high tech community.

**Q&A on "Industry opportunities for MSCS Majors"**

**will follow Dr. Croke's talk.**

1313 W. Wisconsin Avenue, Cudahy Hall, Room 412, Milwaukee, WI 53201-1881

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

or contact Dr. Sarah Hamilton #414-288-6343, sarah.hamilton@marquette.edu

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CUDAHY HALL, ROOM 342 AT 4:30 P.M.