



## Min Wang

Assistant Professor  
Mathematics

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### Education:

BS (Mathematics and Applied Mathematics), Ocean University of China  
MS (Applied Mathematics), Ocean University of China  
MS (Mathematical Sciences), Northern Illinois University  
PhD (Mathematical Sciences), Northern Illinois University

### Research Expertise:

Mathematical Modeling | Mathematical Finance | Data Analytics

I am a mathematician with both academic and industrial experience. As a result, my research interests are split into two categories: applied mathematics and data sciences.

As a mathematician, my research interests are in applied mathematics, which include deterministic and stochastic differential equations, mathematical modeling, numerical analysis, and their applications. Currently, I am working on several problems from biomathematics and mathematical finance.

Due to my industrial data analytic experience, I am also interested in the areas of data analytics such as risk modeling, machine learning, data visualization, and model validation. I am familiar with US consumer credit data and the predictive modeling techniques widely used in credit industry. I look forward to combining my industrial data analytic experience and math knowledge to solve problems.

### Recent Academic Projects:

Feng Y, Wang M (2017) Credit valuation adjustment (CVA) for discretely monitored barrier option under stochastic jump model.

Wang M, Williams V (2017) Data analysis on Philadelphia bike sharing system.

### Recent Publications:

Browne C, Wang M, Webb GF (2017) A stochastic model of nosocomial epidemics in hospital intensive care units. *Electron J Qual Theory Differ Equ.* 6:1-12.

Graef JR, Kong L, Kong Q, Wang M (2017) On a fractional boundary value problem with a perturbation term. *Journal of Applied Analysis and Computation* 7:57-66.

Graef JR, Kong L, Wang M (2014) A Chebyshev spectral method for solving Riemann-Liouville fractional boundary value problems. *Appl Math Comput.* 241:140–150.

Graef JR, Kong L, Wang M (2014) Stationary solution of a stochastic nosocomial epidemic model in hospital intensive care units. *Stochastic Anal Appl.* 32:840–850.