

# f[Wanxue Dong]

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## Research Interests

Machine Learning, Data Mining, Predictive Modeling, Bias Assessments, Expert Quality Assessment

## Education

[The University of Texas at Austin] – [Ph.D] [08/2017] — [Current]

Information System

McCombs School of Business GPA:3.91/4.0 Teaching Rate: 4.3/5.0

[Purdue University] – [Bachelor’s Degree] [08/2012] — [08/2016]

Computer Science; Statistics

College of Science GPA: 3.94/4.0

## Skills & Abilities

Python, SAS, R, SQL, MySQL, Java, C++, C#, MATLAB

## Papers and Presentations

A Machine Learning-based Framework towards Assessment of Labelers’ Biases

Wanxue Dong, Maria De Arteaga, Maytal Saar-Tsechansky

Presented in June 2022, the Eighteenth Symposium on Statistical Challenges in Electronic Commerce Research (SCECR), Marid, Spain;

Presented in April 2022, the 18th Annual Big XII+ MIS Research Symposium, Houston, Texas;

Presented in May 2021, the University of Texas at Austin IROM PhD Conference, Austin, Texas.

A ML-based framework towards Transparency in Experts' Decision Performance

Wanxue Dong, Maytal Saar-Tsechansky, Geva Tomer

**Submitted to Management Science journal, accepted as “major revision”;**

Presented in June 2021, Seventeenth Symposium on Statistical Challenges in Electronic Commerce Research, virtual;

Presented in April 2021, the University of Texas at Austin IROM Spring Symposium, Austin, Texas;

Presented in December 2019, The 29<sup>th</sup> Annual Workshop on Information Technologies and Systems, Munich, Germany;

Presented in October 2019, INFORMS Data Science Workshop, Seattle, Washington.

## Ongoing Projects

A ML-based framework towards Transparency in Experts' Decision Performance. [8/2017] — [Current]

A Machine Learning-based Framework towards Assessment of Labelers’ Biases [8/2020] — [Current]

## Data Science and Management Experience

**[Instructor in Introduction to Information Technology Management Class]** [1/2021] — [Current]  
— The University of Texas at Austin

Help students understand IT ecosystem, using information systems (IS) for competitive advantage, databases, data communications, mobile telecommunications, business process management, and business intelligence;  
Teach students to apply IT knowledge and core skills;  
Facilitate Students' learning process and manage the entire class;

**[Teaching Assistant in Predictive Analytics & Data Mining Class]** [1/2018] — [05/2020]  
— The University of Texas at Austin

Helped students to answer data analytics related questions and resolve technical issues when they apply machine learning techniques by using open source data management tool software WEKA  
Created and verified homework solutions, helped professor manage classes;

**[Critical Situation Manager]** [1/2017] — [8/2017]  
— Microsoft

Ensured that our strategic customers are able to get timely technical relief to business-critical IT problems  
Delivered continuous, measurable improvements to improve process quality and efficiency, reduced the duration of impactful incidents, drove the post-mortem review of critical issues to identify and eliminate future process failings

**[Database Administrator]** [8/2015] — [12/2015]  
— Indiana Attorney General's Office

Managed Human Trafficking Prevention Database and optimized the user interface based on Drupal;  
Conducted robustness tests by creating large fake data sets in SQL and Java;  
Designed solutions to effectively and efficiently import real existing data sets.

**[Software Verification Engineer]** [6/2015] — [11/2015]  
— Delphi Verification Lab

[Developed C# program to improve the accuracy and efficiency of the data communication;  
Enhanced the graphical user interface's features used to convert hex data to readable information;  
Tested vehicles' functionalities by analyzing data sets in MATLAB and Excel.

**[Database Administrator]** [02/2015] — [05/2015]  
— Purdue University Airport

Created a database to maintain weather information for Purdue University Airport based on MySQL;  
Designed an automatically synchronized data-receiving program implemented in PHP.