

Wanxue Dong

Assistant Professor

work: (852)3943-8569 Email: wanxuedong@cuhk.edu.hk

Department of Decisions, Operations and Technology

The Chinese University of Hong Kong Business School

9/F, Cheng Yu Tung Building, Shatin, Hong Kong

Research Interests

Machine Learning, Predictive Modeling, Experts/Labelers' Decision Quality Assessment, Human AI Collaboration, Fair and Responsible AI

Education

[The University of Texas at Austin] — [Ph.D] 08/2017-06/2023

Information Systems in McCombs School of Business, GPA:3.91/4.0

Teaching Rate: 4.3/5.0 (above McCombs faculty average)

[Purdue University] — [Bachelor's Degree] 08/2012-08/2016

Computer Science & Statistics dual majors in College of Science, GPA: 3.94/4.0

Papers and Presentations

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

Wanxue Dong, Maytal Saar-Tsechansky*, Geva Tomer* (* indicates equal contribution)

Management Science, Revise & Resubmit (minor revision will be submitted in early Sep 23)

Earlier version of this research was also accepted and presented in the following meetings:

Statistical Challenges in Electronic Commerce Research (SCECR), 2021;

Workshop on Information Technologies and Systems (WIST), Munich, Germany, 2019;

INFORMS Data Science Workshop (DSW), Seattle, Washington, 2018.

Labelers' Decision Biases Assessments - A New ML-based Method

Wanxue Dong, Maria De Arteaga, Maytal Saar-Tsechansky

To be submitted to MISQ in Oct 23

This research was accepted to the following meetings:

Workshop on Information Technologies and Systems (WITS), Copenhagen, Denmark, 2022;

INFORMS Data Science Workshop (DSW), Indianapolis, Indiana, 2022;

Conference on Information Systems and Technology (CIST), Indianapolis, Indiana, 2022;

Symposium on Statistical Challenges in Electronic Commerce Research (SCECR), Madrid, Spain, Madrid, Spain 2022;

The 18th Annual Big XII+ MIS Research Symposium, Houston Texas. 2022.

Teaching Experience

[Instructor: Introduction to Information Technology Management] 01/2021-05/2021

Teaching Rate: 4.3/5.0

— The University of Texas at Austin

Instructor in the course that aims to review a broad range of IT ecosystem, using information systems (IS) for competitive advantage, databases, data communications, mobile telecommunications, business process management, and business intelligence;

The course also includes applications of IT knowledge and core skills.

As the instructor I was effective at facilitating students' learning and understanding the role and impact of IT in business.

[Teaching Assistant in Management Information Systems Core Classes and Electives] 01/2018-05/2023

— The University of Texas at Austin

- **Predictive Modeling & Data Mining.** Instructor: Prof. Maytal Saar-Tsechansky
- **User Generated Content Analytics.** Instructor: Prof. Anitesh Barua

Responsibilities:

- Developed homework and solutions
- Supported students learning of the courses content
- Graded assignments/exams.
- Helped students with course/assignment/project related questions;
- Assisted students to identify and resolve data science problems when attempting to applying ML tools to solve business problems. This includes GUI tools (e.g., WEKA) and Python programs;

Services

Reviewer for Management Information Systems Quarterly (MISQ) in 2023 & ICIS 2023

Awards

McCombs Dean's Fellowship, UT Austin	2017-2021
Provost Research Grant	2021-2022
College Continuing Fellowship	2021
Graduate School Summer	2022

Technical Skills

Python, SQL, SAS Base, SAS Advanced, R, Java, C/C++

Non-Academic Data Science and Management Experience

[Critical Situation Manager] — Microsoft 01/2017-08/2017

Ensured that our strategic customers 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] — Indiana Attorney General's Office 08/2015-12/2015

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] — Delphi Verification Lab 06/2015-11/2015

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] — Purdue University Airport 02/2015-05/2015

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

Non-Academic Leadership & Community Services

President/Vice President in Austin Chinese Campus Christian Fellowship 08/2019-05/2023