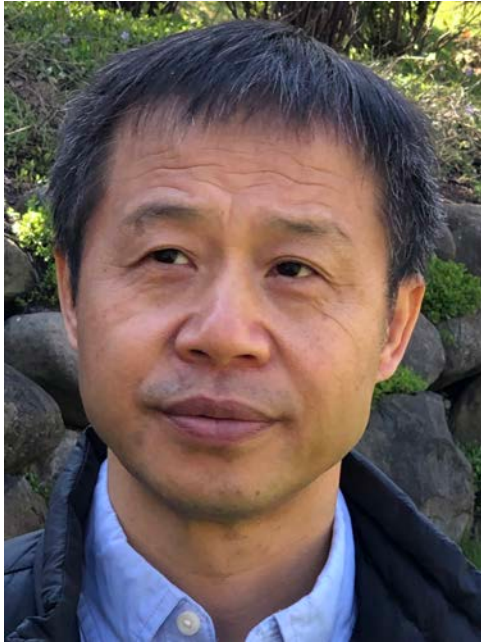# Yazhen Wang

[PRESENT POSITIONS]

Professor of Statistics, Department of Statistics, University of Wisconsin-Madison.

[FORMER POSITIONS]

Department chair, Statistics Department, University of Wisconsin-Madison (2015-2018); Program Director, Division of Mathematical Sciences, US National Science Foundation (NSF) (2007-2009); Professor and Associate Professor of Statistics, University of Connecticut (1998-2009); Assocaite Professor and Assistant Professor of Statistics, University of Missouri-Columbia (1992-1998).

[DEGREES]

Ph.D in Statistics, University of California at Berkeley (1992); M.S. in Probability (1987) and B.S. in Mathematics (1985), East China Normal Univeristy.

[FIELDS OF MAJOR STATISTICAL ACTIVITIES]

Dr. Wang's main research interests include quantum computing, financial econometrics, statistical machine learning, high dimensional statistical inference, nonparametric curve estimation, wavelets and multiscale methods, change points, long-memory processes, and order restricted inference. His research has been continuously supported by NSF and NSA.

[SELECTED PUBLICATIONS]

Dr. Wang has extensive publications in leading statistical and other scientific journals including Annals of Statistics, Annals of Applied Statistics, Biometrika, Journal of the American Statistical Association, Journal of the Royal Statistical Society B, Statistical Science, Statistica Sinica, Physica, Econometrics, Econometric Theory, Journal of Econometrics, Journal of Theoretical and Applied Finance, Journal of Urban Economics, Journal of the American Geriatrics Society, Journal of Immunology, Journal of Orthopedic Research, Bernoulli, and Stochastic Processes and Their Applications. His research work involves a mixture of theory, methods, computation, and applications. His research contributions cover a range of topics including quantum computing, financial econometrics, statistical machine learning, high dimensional statistical inference, nonparametric curve estimation, wavelets and multiscale methods, change points, long-memory processes, and order restricted inference. He also devotes effort in statistical applications in biomedical sciences and industry consulting. His more recent research effort and publications have largely focused on quantum computing and machine learning, with an overarching goal to explore the interface between quantum computation and data science. More information can be found at his webpage http://stat.wisc.edu/~yzwang.

[ICSA ACTIVITIES]

Dr. Wang is a lifetime member of ICSA. He currently serves as a Co-Editor (2017-2020) of Statistica Sinica and was a Co-editor (2011-2014) of Statistics and Its Interface (ICSA co-sponsored journals) and an Associate Editor of Statistica Sinica (2001-2008). He served on the ICSA Board of Directors (2007-2009) and ICSA Nomination Committee (2009-2012 & 2017-2020). He was in the committee of the 2006 ICSA Applied Statistics Symposium and organized many invited sessions for ICSA conferences over the years.

[PROFESSIONAL SERVICES]

Dr. Wang is/was a Co-Editor of Statistica Sinica and Statistics and Its Interface, and an Associate Editor of Journal of the American Statistical Association, Annals of Statistics, Annals of Applied Statistics, Journal of Business and Economic Statistics, Statistica Sinica, the Econometics Journal, and Journal of Korean Statistical Society. He served on the Committees to Select Administrative Officers and to Select Fellows for Institute of Mathematical Statistics (IMS), the Committee on Federally Funded Research for the American Statistical Association (ASA), the ICSA Board of Directors, and the ICSA Nomination Committee. He served as Program Director in US National Sciece Foundation (NSF). He chaired the NSF Conference on Statistics for Complex Systems and the IMS Mini-Conference on Statistics for Mathematical and Computational Finance. He was the program chair for the Second Hangzhou International Conference on Frontiers of Data Science.

[HONORS AND AWARDS]

Dr. Wang is a Fellow of the American Statistical Association (ASA) and Institute

of Mathematical Statistics (IMS) (ASA and IMS lifetime member). He was award Scholar Fellowship and 1923 Class Fellowship at the University of California at Berkeley.

[STATEMENT]

It is a great honor to be nominated as a candidate for the president of ICSA. I joined the Society as a young faculty in the1990s and have been a lifetime member for many years. Over the years I have benefited so much from ICSA activities, and ICSA has helped my career a great deal. Through the years of my participation in and service to ICSA, including as a member of the ICSA Board of Directors (2007-2009) and Nomination Committee (2009-2012 & 2017-2020), a Co-Editor of Statistica Sinica (2017-2020) and Statistics and Its Interface (2011-2014), and a session organizer of numerous ICSA conferences, I have witnessed the full growth of our beloved society along with its many milestone developments. Owing to the tireless efforts and visions from the ICSA leaderships (Presidents, Executive Directors, Board of Directors, and various ICSA Committees) and the wide and diverse ICSA members over the years, ICSA has grown to be one of the leading statistical societies to promote our profession and serve its members, with many great accomplishments. Highlighted deeds include journals (Statistica Sinica, Statistics and Its Interface, and Statistics in Biosciences), partnership with peer societies, and professional conferences (Symposiums on Applied Statistics and International Conferences, co-sponsored meetings with other societies), among many others. ICSA is a lovely, big family, and as a family member, I truly feel that my participation and services provide excellent opportunities for me to interact with ICSA Presidents, Executive Directors, Boards of Directors, various ICSA Committees, and many ICSA members. While I am fully aware of the difference between the president's job and my own past administrative and editorial jobs, the previous experiences offer an in-depth understanding of the commitment and skills required to serve as the ICSA president.

If elected, I will continue with the strong and positive momentum to further the ICSA mission and maintain its growth and prosperity. Working with ICSA leaders and members I will continue to promote and increase ICSA membership, promote and improve ICSA journals and conferences, strengthen partnerships with other statistical societies, and enhance collaborations among academic, government, and industrial statistical activities. The digital revolution has had a profound impact on the use of big data in scientific research and knowledge discovery, and big data has been emerged as the new telescope and microscope for sciences in the information age. It brings in unprecedented opportunities along with tremendous challenges to statistics and data science. ICSA is poised to play a leading role in responding to the challenges and taking full advantage of the opportunities. I will particularly promote initiatives for interfacing with other fields and branching out to other disciplines for the value of statistics and data science as well as for helping junior statisticians who are facing fierce competitions

within and beyond the statistical profession. I will explore new ICSA communication and dissemination means such as virtual activities (virtual workshops and virtual mini-conferences/seminar series) to better serve the needs of members especially during these difficult times caused by the coronavirus pandemic. The virtual tools may be proven to have long-lasting value for ICSA; way beyond the current pandemic. Again I am thrilled regarding the prospect to work with you and serve our organization.