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Songhua Xu is a researcher and a Wigner Fellow in the Modeling and Simulation Group in the Computational Sciences and Engineering Division of the Computing and Computational Sciences Directorate at Oak Ridge National Laboratory. He received his Ph.D., M.Phil., M.S., all in computer science from Yale University. His primary research interests include information retrieval and management, web search and data mining, innovative applications of AI, and intelligent systems for biomedical applications. He also has secondary research interests spanning across visual computing, multimedia, human-computer interaction, computer graphics, visualization, digital arts and design. He is particularly passionate about building human centered applications that benefit people and society through advanced computing techniques.

Songhua Xu has four approved patents and twenty-four pending patents. He is a member of the AAAI, the IEEE, the American Association for the Advancement of Science, the American Medical Informatics Association, the Society for Industrial and Applied Mathematics, the New York Academy of Sciences, and Eurographics. He is an honorary assistant professor of the Computer Science Department at the University of Hong Kong.