

Dr. Jeng-Bang Yau (姚正邦)

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Biography:

Dr. Jeng-Bang Yau is a Research Scientist in IBM Quantum at the IBM T.J. Watson Research Center, with his current research focused on exploration and development of Experimental Quantum Computing Technology. Dr. Yau received his B.S. and M.S. degrees in Electrical Engineering from National Tsing Hua University (NTHU) in Hsinchu, Taiwan and his Ph.D. degree in Electrical Engineering from Princeton University in 2002. The research topic of his Ph.D thesis has been featured in the Research Highlights of Nature Physics and interviewed by the Science magazine. Prior to joining IBM Research in 2006, he was a postdoctoral associate in the Dept. of Applied Physics at Yale University with his research focused on complex oxide electronics.

Dr. Yau has received various corporate honors including IBM Inventor Plateau Award, Manager Choice Award, Eminence and Excellence Award, and Outstanding Technical Achievement Award. At IBM Research, Dr. Yau has also worked on novel semiconductor technologies, cryogenic non-volatile memories, and radiation dosimeters, etc. He currently holds over 120 patents and published 50+ peer-reviewed technical papers. He is a regular referee of technical and scientific journals such as IEEE journals, Applied Physics Letters, Journal of Applied Physics, and Physical Reviews.

Dr. Yau joined the Board of Director of CIE-GNYC in 2019 and was the Convention Chair of the 2021 Virtual Convention. He is also a motivational science coach certified by the International Coaching Federation and active in promoting STEM/STEAM education and talent cultivation. His efforts, to name a few, include providing academic mentoring and coaching through intelligent motivational scientific analyses, collaborating with the Houston Association of Space Science Education (HASSE), and hosting high school and college students for THINK Lab tours at IBM Research. Dr. Yau is an elected member of the Overseas Alumni Committee of NTHU. He also serves in the Alumni Students Council and annually interview regional applicants for the Undergraduate Admission Office of Princeton University.