

Curriculum Vitae

As of 1 November 2025

Name	Hidetoshi Katori	Date of birth	27 September 1964 (age 61)
Position (Specialization)	Professor, Graduate School of Engineering, Department of Applied Physics, The University of Tokyo (Quantum Electronics)		
Nationality	Japan (Tokyo)		
Degree	October 1994 Doctor of Engineering (The University of Tokyo)		
Academic history/Appointments	March 1983: Graduated from Ibaraki Prefectural Tsuchiura Daiichi High School March 1988: Graduated from the Department of Applied Physics, Faculty of Engineering, The University of Tokyo March 1990: Master of Engineering. in Applied Physics, Graduate School of Engineering, The University of Tokyo. August 1991: Research Associate, Department of Applied Physics, The Faculty of Engineering, The University of Tokyo October 1994: Doctor of Engineering in Applied Physics, Graduate School of Engineering, The University of Tokyo. September 1994: Visiting Scientist, Max Planck Institute for Quantum Optics, Germany March 1997: Researcher, Strategic Basic Research Programs, Japan Science and Technology Agency October 1997: Group Leader, Gonokami Cooperative Excitation project, Japan Science and Technology Agency April 1999: Associate Professor, Department of Collaborative Engineering, Faculty of Engineering, The University of Tokyo October 2002: Researcher, PRESTO, Japan Science and Technology Agency April 2005: Associate Professor, Department of Applied Physics, Graduate School of Engineering, The University of Tokyo October 2005: Principal Investigator, CREST, Japan Science and Technology Agency May 2010: Professor, Department of Applied Physics, Graduate School of Engineering, The University of Tokyo (~ Present) October 2010: Research Director, ERATO Katori Innovative Space-Time Project, Japan Science and Technology (~ March 2016) April 2011: Chief Scientist, Quantum Metrology Laboratory, RIKEN April 2014: Distinguished Guest Professor, The University of Tübingen, Germany (~ 2022) April 2014: Team Leader of Spacetime Engineering Research Team and Chief Scientist of Quantum Metrology Laboratory, RIKEN (~March 2025) April 2017: Director, Photon Science Center of the University of Tokyo (~ March 2018) November 2018: Program Manager, JST-Mirai Program, Large-scale Type, Japan Science and Technology Agency (~ Present) December 2023: Member of the Japan Academy, Section II (Pure Sciences and Their Applications), Fourth Subsection (Pure Sciences), Quantum Electronics (~ Present) April 2025: Team Director, Spacetime Engineering Research Team, RIKEN Center for Advanced Photonics (RAP), RIKEN (~ Present)		

Awards	[International] 2005: Julius Springer Prize for Applied Physics, “For his pioneering work on ultrahigh precision optical clocks and its enormous impact on basic research as well as on a great variety of applications” 2005: European Time and Frequency Award, “For a brilliant break-through in the field of optical frequency standards” 2008: RABI AWARD, “For outstanding contributions to the invention and development of optical lattice clocks” 2011: The Philipp Franz von Siebold Prize 2011 2014: Distinguished Guest Professorship (2014-2017), Tubingen University, Germany 2017: Distinguished Guest Professorship (2017-2022), Tubingen University, Germany 2020: Micius Quantum Prize 2020 2021: Breakthrough Prize in Fundamental Physics 2022, “For outstanding contributions to the invention and development of the optical lattice clock, which enables precision tests of the fundamental laws of nature.” 2022: The Honda Prize 2022, “Invention of an optical lattice clock that only loses one second in 30 billion years” [Domestic] 2001: Marubun Research Encouragement Award, “Development of ultra-low temperature and high-density laser cooling method for alkaline-earth atoms” 2005: The 1st Japan Society for the Promotion of Science Prize, “Development of ultra-high precision atomic clock using optical lattice” 2006: Marubun Academic Special Award, “Realization of ultra-high precision atomic clock by ‘optical lattice clocks’ method” 2006: The 20th IBM Japan Science Prize, “Development of ‘optical lattice clock’ that realizes an ultra-high precision atomic clock” 2010: The 42nd Ichimura Academic Award, Special Prize, “Establishment of a new atomic clock method by proposing and demonstrating optical lattice clocks” 2011: The 12th Optics and Quantum Electronics Achievement Prize (Hiroshi Takuma Award), Hidetoshi Katori, Masao Takamoto, “Development of optical lattice clocks” 2011: Prizes for Science and Technology, Research Category, Ministry of Education, Culture, Sports, Science and Technology (MEXT) “Research on optical lattice clocks” 2012: The Asahi Prize 2011, “For research on optical lattice clocks” 2013: The 54th Fujihara Award, “Development of High Precision Atomic Clocks by the Invention and Realization of Optical Lattice Clocks” 2013: The 53rd Toray Science and Technology Prize, “For his pioneering work on ultrahigh precision atomic clocks by the invention and development of optical lattice clocks” 2013: Nishina Memorial Prize 2013, “Invention of optical lattice clocks” 2014: Medal with Purple Ribbon (2014 Autumn), “Achievements in quantum electronics research” 2015: Japan Academy Prize, “Invention of optical lattice clocks and their development” 2016: The 16th Japan Society of Applied Physics Outstanding Achievement Award (Research Achievement), “Pioneering research on optical lattice clocks” 2017: The 14th Leo Esaki Prize, “Invention and realization of high-precision optical lattice clocks” 2020: Hattori Foundation 90th Anniversary Special Award, “Excellent research related to time accuracy and advanced utilization in science and technology”
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