

Curriculum Vitae

As of 12 December 2024

Name	Hidetoshi Katori	Born	27 September 1964 (age 60)
Position (Specialization)	<p>Professor, The Graduate School of Engineering, Department of Applied Physics, The University of Tokyo, Chief Scientist, Quantum Metrology Laboratory, Team Leader, Space-Time Engineering Research Team, RIKEN Center for Advanced Photonics (RAP), RIKEN (Physics, Quantum Electronics) Member of the Japan Academy</p>		
Degree	October 1994 Doctor of Engineering (The University of Tokyo)		
Academic history/Appointments	<p>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 Physical, Graduate School of Engineering, The University of Tokyo October 2005: Principal Investigator, CREST, Japan Science and Technology Agency May 2010: Professor, Department of Applied Physical, 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 2015: Team Leader of Space-Time Engineering Research Team and Chief Scientist of Quantum Metrology Laboratory, RIKEN (~ Present) 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 2023.12: Member of the Japan Academy (~ Present)</p>		
Awards	<p>[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 an Optical Lattice Clocks” 2011: The Philipp Franz von Siebold Prize 2011 2014: Distinguished Guest Professorship (2014-2017), Tübingen University, Germany 2017: Distinguished Guest Professorship (2017-2022), Tübingen 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”</p>		

	<p>[Domestic]</p> <p>2001: Marubun Research Encouragement Award, “Development of ultra-low temperature and high-density laser cooling method for alkaline-earth atoms”</p> <p>2005: The 1st Japan Society for the Promotion of Science Prize, “Development of ultra-high precision atomic clock using optical lattice”</p> <p>2006: Marubun Academic Special Award, “Realization of ultra-high precision atomic clock by "Optical Lattice Clocks" method”</p> <p>2006: The 20th IBM Japan Science Prize, “Development of "optical lattice clock" that realizes ultra-high precision atomic clock”</p> <p>2010: The 42nd Ichimura Academic Award, Special Prize, “Establishment of a new atomic clock method by proposing and demonstrating an Optical Lattice Clocks”</p> <p>2011: The 12th Optics and Quantum Electronics Achievement Prize (Hiroshi Takuma Award), Hidetoshi Katori, Masao Takamoto, “Development of Optical Lattice Clocks”</p> <p>2011: Prizes for Science and Technology, Research Category, Ministry of Education, Culture, Sports, Science and Technology (MEXT) “Research on Optical Lattice Clocks”</p> <p>2012: The Asahi Prize 2011, “For research on the Optical Lattice Clocks”</p> <p>2013: The 54th Fujihara Award, “Development of High Precision Atomic Clocks by the Invention and Realization of Optical Lattice Clocks”</p> <p>2013: The 53rd Toray Science and Technology Prize, “For his pioneering work on ultrahigh precision atomic clocks by the invention and development of an Optical Lattice Clocks”</p> <p>2013: Nishina Memorial Prize 2013, “Invention of Optical Lattice Clocks”</p> <p>2014: Medal with Purple Ribbon (2014 Autumn), “Achievements in quantum electronics research”</p> <p>2015: Japan Academy Prize, “Invention of the Optical Lattice Clocks and its development”</p> <p>2016: The 16th Japan Society of Applied Physics Outstanding Achievement Award (Research Achievement), “Pioneering research on Optical Lattice Clocks”</p> <p>2017: The 14th Leo Esaki Prize, “Invention and realization of high-precision Optical Lattice Clocks”</p> <p>2020: Hattori Foundation 90th Anniversary Special Award, “Excellent research related to time accuracy and advanced utilization in science and technology”</p>
Academic society	<p>The Physical Society of Japan, The Japan Society of Applied Physics, The Laser Society of Japan, American Physical Society, The Engineering Academy of Japan</p>