

### 19th (FY2022) JSPS Prize recipients

NAME	AFFILIATION	RESEARCH TITLE
IGARASHI Kei	Associate Professor, School of Medicine, University of California, Irvine	Neural Circuit Mechanisms of Associative Memory in Health and their Functional Abnormality in Dementia
ITO Asa	Director, Future of Humanity Research Center, Institute of Innovative Research, Professor, Institute for Liberal Arts, Tokyo Institute of Technology	Qualitative Research on Physical Sensation of People with Disabilities and Study of the Nature of Altruistic Care
INOUE Shigeyoshi	Professor, Department of Chemistry, Technical University of Munich	Studies on Low-Coordinate Organosilicon and Aluminum Compounds and their Applications
IWAI Daisuke	Associate Professor, Graduate School of Engineering Science, Osaka University	Reproduction and Control of Physical Surface Texture Using Projection Mapping
UEDA Minako	Professor, Graduate School of Life Sciences, Tohoku University	Spatiotemporal Dynamics and Molecular Mechanisms of Plant Morphogenesis Initiated by Fertilization
KATO Yuichiro	Chief Scientist, Cluster for Pioneering Research, Team Leader, Center for Advanced Photonics, RIKEN	Development of Carbon Nanotube Atomically Defined Technology and Application to Carbon Nanotube Quantum Photonic Devices
KITAJIMA Tomoya	Team Leader / Deputy Director, Center for Biosystems Dynamics Research, RIKEN	Study of Chromosome Segregation Errors in Mammalian Oocytes
KOMIYA Michiko	Research Associate, Graduate School of Humanities and Sociology and The Faculty of Letters, The University of Tokyo	An Empirical Study of the History of Russian Literature in the Early Soviet Period Based on the Elucidation of Generative Processes of Yury Olesha's <i>Envy</i> .
Benoît COLLINS	Professor, Graduate School of Science, Kyoto University	Free Probability and its Application to Random Matrices
KONDO Ayako	Professor, Institute of Social Science, The University of Tokyo	Empirical Analysis of Youth and Elderly Labor Markets and Public Policy Evaluation
SATO Kei	Professor, The Institute of Medical Science, The University of Tokyo	Establishment of System Virology for Unraveling the Principles of Battles and Symbiosis between Viruses and Hosts
SANNOMIYA Takumi	Associate Professor, School of Materials and Chemical Technology, Tokyo Institute of Technology	Phase Extraction and Wavefront Control of Accelerated Electrons and Light
SEKINE Yasuhito	Professor, Earth-Life Science Institute, Tokyo Institute of Technology	Study of the Atmospheres, Oceans, and Habitability of Icy Bodies in the Solar System
TAKAHASHI Kazunori	Associate Professor, School of Engineering, Tohoku University	Studies on Plasma Dynamics in Magnetic Nozzles and Space Propulsion
NOTAGUCHI Michitaka	Associate Professor, Bioscience and Biotechnology Center, Nagoya University	Study on Systemic Signaling in Plants and Grafting
BAJI Tomohito	Associate Professor, Graduate School of Arts and Sciences, The University of Tokyo	Empire and International Order in the History of Political Thought
HANADA Nobuko	Assistant Professor, Faculty of Science and Engineering, Waseda University	Improvement of Reaction Rate of High Capacity Hydrogen Storage Materials and Development of Hydrogen Storage and Supply Processes
FUKAMI Shunsuke	Professor, Research Institute of Electrical Communication, Tohoku University	New-functional Spintronics Devices and their Application to Unconventional Computing
FUJII Keisuke	Professor, Graduate School of Engineering Science, Center for Quantum Information and Quantum Biology, Osaka University, Team leader, Center for Quantum Computing, RIKEN	Pioneering Research on Quantum Computing Theory and Quantum Software for the Realization of Quantum Computers
FUJIMORI Shinichiro	Associate Professor, Graduate School of Engineering, Kyoto University	Development of Novel Integrated Assessment Model to Explore Long-term Socioeconomic Decarbonization Scenarios
HORIKE Satoshi	Associate Professor, Institute for Advanced Study, Kyoto University	Synthesis and Functional Design of Coordination Polymer Glasses
MAENO Kotaro	Senior Researcher, Crop, Livestock and Environment Division, Japan International Research Center for Agricultural Sciences	Development of Control Techniques for the Desert Locusts in Africa
MIYAMA Emily	JSPS Research Fellow for Young Scientists (PD)	Elucidating the Maritime Networks in Prehistoric Southeast Asia from the Perspective of Ear Ornaments
MURAYAMA Masanori	Team Leader, Center for Brain Science, RIKEN	Identification of Cortical Circuits for Sensory Perception and Memory Consolidation, and Development of a Novel Method for Visualizing Circuit Dynamics in Vivo
YAMAZAKI Masahito	Professor, Kavli Institute for the Physics and Mathematics of the Universe, The University of Tokyo	Study of Integrable Models Using Supersymmetric Quiver Gauge Theories and the 4-dimensional Chern-Simons Theory