

## List of Fellows (FY2023 Invitational Fellowships for Research in Japan (Second Recruitment of Short-term))

Humanities

The following list includes the names of the selected fellows, their host researchers and research themes under the 2nd recruitment of FY2023 JSPS Invitational Fellowships for Research in Japan (Short-term). Under this recruitment, 230 applicants were received, among which 75 fellowships were awarded.

Fellow' name (Family/First/Middle)	Nationality	Host Researcher	Host Institution	Research Theme
FONTAN Lionel Marc	FRANCE	Sylvain DETEY	Waseda University	AI-Based Second Language Speech Assessment
SABRAA Tarek	SYRIA	Takao ITO	Kobe University	Ibn Qadi Shuhba and His Contemporary Historians: Intellectual Networks Across the Mamluk Sultanate
YILMAZ DIKO Gulay	TURKEY	Jun AKIBA	The University of Tokyo	Emotional and Mental Formation of Warrior Identity: the Case of Janissaries in the Ottoman Empire
RUSSELL Adrienne	U.S.A.	Mikihito TANAKA	Waseda University	Climate Change Communication, Education and Online Discourse: Comparing Japan and the US
BERTINETTO Alessandro Giovanni	ITALY	Patrick GRUENEBERG	Kanazawa University	Aesthetic habits and human agency
BARRIE Michael Jonathan Mathew	CANADA	Seunghun LEE	INTERNATIONAL CHRISTIAN UNIVERSITY	Investigating the Syntax-Prosody Interface in Xitsonga
MARCHAL Bertrand Yves, Joseph	FRANCE	Atsuko OGANE	KANTO GAKUIN UNIVERSITY	Salome, Herodiade, Religion : meta-literature in Mallarme, Flaubert and some other writers
ESCUDE Pierre	FRANCE	Noriyuki NISHIYAMA	Kyoto University	Contextualising the teaching of mutual understanding of neighbouring languages in Japan

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Social sciences

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SALLABERRY Christian	FRANCE	Tsunenori MINE	Kyushu University	Prediction and semantic interpretation of traveler behavior for regional tourism business activation
YAM Kai Chi	CHINA	Tomoki SEKIGUCHI	Kyoto University	Comparative cultural research on human-robot interaction in industrial settings
VON MUHLENEN Adrian	SWITZERLAND	Jun-ichiro KAWAHARA	Hokkaido University	Development of effective virtual/mixed reality laboratory platform for psychology beginning students
WILKE Andreas Klaus-Henning	GERMANY	Masanori TAKEZAWA	Hokkaido University	Computational models of the misperception of randomness: Developmental and evolutionary perspectives
SHAW-TAYLOR Leigh Matthew William	UNITED KINGDOM	Motoyasu TAKAHASHI	Ehime University	Contrastive study of the regional labour market in the Early Modern period in Japan and England
BONIFACIO Glenda Tibe	CANADA	Ayano GINOZA	University of the Ryukyus	Gender and Power in Island Communities: Translocalities and Migrant Households in Okinawa, Japan
MOEYAERT Mariola Christine S.	BELGIUM	Tsuyoshi YAMADA	Yokohama City University	Statistical analysis and meta-analysis of single-case research
WANG Zhi	U.S.A.	Bo MENG	Institute of Developing Economies, Japan External Trade Organization	Measuring Global Value Chains: Considering Firm Ownership and Size

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Mathematical and physical sciences

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WILLIAMS Christopher R.	U.S.A.	Shoichi SHIGE	Kyoto University	Estimation of vertical air motion within precipitating clouds
UETA Toshiya	JAPAN	Masaaki OTSUKA	Kyoto University	Comprehensive Study of Circumstellar Matter by 3-D Spectroscopy of PNe with Kyoto-U Seimei Telescope
MOHAMMADY Mohammad Hamed	UNITED KINGDOM	Takayuki MIYADERA	Kyoto University	Quantum Thermodynamics and quantum measurement
INGRIN Jannick	FRANCE	Jun TSUCHIYA	Ehime University	Ab initio investigations of water in nominally anhydrous minerals in deep Earth's interior
VALENTINO Francesco Maria	ITALY	Masayuki TANAKA	National Institutes of Natural Sciences	The birth and death of the cosmic giants probed by the largest ground and space-based telescopes
DALAI Tarun Kumar	INDIA	Katsuhiko SUZUKI	Japan Agency for Marine-earth Science and Technology	Resolving the cause of the End-Permian Extinction through a multi-proxy approach
ZVELINDOVSKY Andrei Victorovich	NETHERLANDS	Toshihiro KAWAKATSU	Tohoku University	Computer modelling of composite nanostructured block copolymer based materials

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Chemistry

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Fellow' name (Family/First/Middle)	Nationality	Host Researcher	Host Institution	Research Theme
BORJESSON Karl	SWEDEN	Nobuhiro YANAI	Kyushu University	Development and Application of Heavy Metal Free Triplet Generators
HAZRA Partha	INDIA	Ken ONDA	Kyushu University	Elucidation of Structural Factors in Photoluminescence Processes Associated with a Spin-Flip Process
HUDSON Zachary Michael	CANADA	Hironori KAJI	Kyoto University	Bioimaging and Medical Diagnostics of Thermally Activated Delayed Fluorescent Materials
SONG Wenbo	CHINA	Shen YE	Tohoku University	UV-Vis Absorption Microscopic Spectroscopy Study on Electrode/Solution Interface in Batteries
CHATTOPADHYAY Santanu	INDIA	Seiichi KAWAHARA	Nagaoka University of Technology	Structure and properties of vulcanized protein-free natural rubber prepared with ZnO nanoparticles
KIM Kimoon	KOREA (REP. OF KOREA)	Tomoki OGOSHI	Kyoto University	Creation of cyclic host molecules that exhibit host-guest interactions comparable to covalent bonds
ZHANG Deqing	CHINA	Shigehiro YAMAGUCHI	Nagoya University	Photo/electronic Functions of Non-benzenoid pi-Electron Materials

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Engineering sciences

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Fellow' name (Family/First/Middle)	Nationality	Host Researcher	Host Institution	Research Theme
SAGADEVAN Suresh	INDIA	Tetsuo SOGA	Nagoya Institute of Technology	Metal oxide nanostructured based gas sensor for environmental applications
KOFFAS Mattheos	U.S.A.	Hiroshi SHIMIZU	Osaka University	Animal Free High-Value Added Chemical Compounds Production by Precision Fermentation
PAL Prem	INDIA	Toshiyuki TSUCHIYA	Kyoto University	Surface treatment process for highly reliable silicon MEMS optical mirror array
PIOLETTI Dominique Pierre	SWITZERLAND	Taiji ADACHI	Kyoto University	Development of subchondral bone defect regeneration by biomechanics and biomaterials considerations
SOUKHOROUKOV Vladimir	GERMANY	Ryo SHIRAKASHI	The University of Tokyo	Mechanisms of erythrocyte deformability elucidated by flickering and electrodeformation
ROTKIN Vyacheslav Vyacheslavovich	U.S.A.	Shigeo MARUYAMA	The University of Tokyo	Physics and Application of Moire Twistronics in 1D van der Waals Materials
CHUA Adeline Seak May	MALAYSIA	Satoshi OKABE	Hokkaido University	Microbial ecology of nitrogen cycle in the unexplored tropical wastewater treatment systems
SELETSKIY Denis Vladimirovich	U.S.A.	Takuro IDEGUCHI	The University of Tokyo	Development of mid-infrared quantum metrology protocols
ZHAO Jidong	CHINA	Yosuke HIGO	Kyoto University	Development of peridynamics-based computational approach for evolving hydraulic fractures
BUCCI Matteo	ITALY	Shoji MORI	Kyushu University	Innovative temperature measurement of new micro-structured heat transfer surfaces to improve CHF.
KUZMIK Jan	SLOVAKIA	Tetsuya SUEMITSU	Tohoku University	InN-based heterostructures for new generation of fast electronics
GOEHRING Lucas	UNITED KINGDOM	Susumu INASAWA	Tokyo University of Agriculture and Technology	Fast and quantitative visualization of drying colloidal suspensions by optical coherent topography

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SHIH Ming Hsiang	TAIWAN	Yuki CHIKAHIRO	Shinshu University	Fundamental study for improving analysis accuracy of products created by FDM 3D printer
HOQUE Md. Emdadul	BANGLADESH	Masaya TAKASAKI	SAITAMA UNIVERSITY	Retrofitting passive vibration isolation system with energy-saving zero-compliance modules
SAKAUE Hirota	U.S.A.	Yasumasa WATANABE	Toyota Technological Institute	Optical Measurement of Surface Pressure in Supersonic Flow with Plasma

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Informatics

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CAO Zehong	CHINA	Takayuki ITO	Kyoto University	A human-agent learning network towards efficient decision making
CHEN Xianfu	CHINA	Celimuge WU	The University of Electro-Communications	Semantic Communications for Large-volume Image Transmissions in Vehicular IoT
THUDICHUM DE SERPA VASCONCELOS Vasco Manuel	PORTUGAL	Atsushi IGARASHI	Kyoto University	A Theory of Practical Metaprogramming
LOKE Seng	AUSTRALIA	Xun SHAO	Toyohashi University of Technology	Towards a Intelligent Policy-based Development Methodology for Human-Centric Ethical Smart Devices
TEATHER Robert John	CANADA	Kiyoshi KIYOKAWA	Nara Institute of Science and Technology	Multi-user Virtual Reality (VR) Haptics
UDDIN Mohammad Shorif	BANGLADESH	Tetsuya SHIMAMURA	SAITAMA UNIVERSITY	Effective authenticity and ownership protection of multimedia through watermarking
CAIAFA Cesar Federico	ARGENTINA	Qibin ZHAO	RIKEN	A ML approach to ill-posed inverse problems using Tensor-Network (TN) methods

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Biological sciences

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SEQUEIRA Vasco	PORTUGAL	James PEARSON	National Cerebral and Cardiovascular Center	Role of hypercontraction in coronary microvessel dysfunction in hypertrophic cardiomyopathy
WONG Tuck Seng	MALAYSIA	Paola LAURINO	Okinawa Institute of Science and Technology Graduate University	Role of RNA polymerase within highly dense membraneless protein droplets
COSTAGLI Mauro	ITALY	Roy allen WAGGONER	RIKEN	Advanced Quantitative Susceptibility Mapping for imaging brain anatomy and function with MRI
WANNER Manfred	GERMANY	Yoichiro SOGAME	Fukushima National College of Technology	A study on terrestrial testate amoebae related to Japan's World Cultural and Natural Heritage sites
OKAMOTO Noriko	JAPAN	Filip HUSNIK	Okinawa Institute of Science and Technology Graduate University	Single-cell approach to study an interaction between a protist <i>Hatena arenicola</i> and its symbiont



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Agriculture/Environmental sciences

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ISLAM Md Tofazzal	BANGLADESH	Yukio TOSA	Kobe University	Establishment of an Asian center for controlling wheat blast
MC GRATH Brian Paul	U.S.A.	Yuji HARA	Wakayama University	Environmental impact and risk assesments of earthworks and associated fill material flows
GABOR Galiba O.	HUNGARY	Ryozo IMAI	National Agriculture and Food Research Organization	Light-regulation of cold acclimation in cereals
AHMED Md Sagir	BANGLADESH	Osamu ARAKAWA	NAGASAKI UNIVERSITY	Establishment of a research platform for freshwater pufferfish from Southwest to Southeast Asia
MCCORMICK Stephen Daniel	U.S.A.	Makoto KUSAKABE	National University Corporation Shizuoka University	Evolution and diversity of osmoregulation in fish
THEN Amy Yee Hui	MALAYSIA	Tadashi KAJITA	University of the Ryukyus	Use of eDNA metabarcoding to assess environmental gradients across mangroves: Malaysian case study
FRASER Andrew Gordon	CANADA	Hiroyuki OSADA	RIKEN	Using screens of natural products in C.elegans to find new anti-parasitic drugs
NUDELMAN Fabio	UNITED KINGDOM	Michio SUZUKI	The University of Tokyo	Study on biomineralization under high pressure
CHEN Xueming	CHINA	Yu-you LI	Tohoku University	Development of carbon neutral nitrogen removal process with advanced functional carrier

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Medicine dentistry and pharmacy

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TANG Yi	U.S.A.	Ikuro ABE	The University of Tokyo	Rational redesign of biosynthetic systems for medicinal natural products
KALANLAR Bilge	TURKEY	Ai OGATA	Japanese Red Cross College of Nursing	Collaborative Development of Disaster Nursing Mutual Exchange Program for Turkey and Japan
JIANG Huabei	U.S.A.	Yoko HOSHI	National University Corporation, Hamamatsu University School of Medicine	Development of near-infrared optical tomography (NIROT) for monitoring of spinal cord hemodynamics
SMITH, III Amos B.	U.S.A.	Toshiaki SUNAZUKA	Kitasato University	Recent Advances in Natural Product and Bioactive Compound Synthesis
MAYWAR Drew Nelson	U.S.A.	Munekazu YAMAKUCHI	Kagoshima University	Methodology for Mathematical Analysis of Vascular Function at the Cellular Level
MADHAVAN Lalitha	U.S.A.	Masayuki YAMAMOTO	Tohoku University	Neural stem cells, Ageing, and Nrf2
LEE Bong-Jin	KOREA (REP. OF KOREA)	Toru NAKATSU	Wakayama Medical University	Next-generation structural analyses for drug targets: development and problem points
CHAGIN Andrei	SWEDEN	Emilio satoshi HARA	Okayama University	Analysis of cartilage stem cell-specific mechanotransduction mechanisms
MIZUNO Tomoyuki	JAPAN	Tomohiro TERADA	Kyoto University	Clinical pharmacometrics for precision medicine in special population