

## List of Fellows Selected through Open Recruitment in Japan

Humanities

The following list includes the names of the selected fellows, their host researchers and research themes under the 2nd recruitment of FY 2021-2022 JSPS Postdoctoral Fellowship for Research in Japan (Standard). Under this recruitment, 1125 applications were received, among which 115 fellowships were awarded. Notification of the selection results will be made in writing through the head of the applying institution in the end of August, 2021. An award letter will be sent to the successful candidates. Unsuccessful candidates are not directly notified of their selection results. However, applicants (host researchers) can see their approximate ranking among all the applications through the JSPS Electronic Application System. Individual requests for selection results are not accepted.

Fellow			Nationality	Host Researcher	Host Institution	Research Theme
Family Name	First Name	Middle Name				
YANG	Jian		CHINA	Bunkei MATSUSHITA	University of Tsukuba	Using a new deep learning approach to properly segment multiscale geographic objects
PAIK	Yon jae		KOREA (REP. OF KOREA)	Yasuko KOBAYASHI HASS	Ritsumeikan University	Creation of the Transnational Organic Agriculture Movement in 20th Century East Asia
ORLANDI	Giorgio		ITALY	Emi KISHIMOTO	Osaka University	A Study of the Phonology and Lexicon of Ryukyuan Languages Based Upon Western and Missionary Works
STANDALL	Edward	Alexander	UNITED KINGDOM	Shinya SHODA	National Institutes for Cultural Heritage, Nara National Research Institute for Cultural Properties	The presence and practice of millet consumption in Central Asia
LI	Xinyue		CHINA	Carlos toshinori ISHI	Advanced Telecommunications Research Institute International	Clarifying the mechanism of paralinguistic expression by Japanese learners
PACHCIAREK	Pawel	Lukasz	POLAND	Akira TATEHATA	TAMA ART UNIVERSITY	KUSAMA YAYOI : RELATION BETWEEN LITERATURE AND ART

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Social sciences

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Family Name	First Name	Middle Name				
ODEYEMI	Christo	Idowu	NEW ZEALAND	Takashi SEKIYAMA	Kyoto University	An Investigation into the Interactions between Nuclear Security and Climate Security in Japan
BUCHER	Benoit	Cyril, albert	FRANCE	Katsumi WATANABE	Waseda University	In-group bias in prosocial behaviors
CHENG	Shing-ru		TAIWAN	Masako WAKUI	Kyoto University	Anti-Monopoly and Digital Platform: A Comparative Study of Japanese and Taiwanese Antitrust Law
OSHEA	Brian	Anthony	IRELAND	Michiko UEDA	Waseda University	Loneliness and suicide in Japan and around the world
BOLZONARO	Fabio		ITALY	Airo HINO	Waseda University	Value Changes and Recent Evolutions of Morality Politics - Comparative Analysis of Europe and Japan

## List of Fellows Selected through Open Recruitment in Japan

Mathematical and physical sciences

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Family Name	First Name	Middle Name				
ADAMO	Maria stella		ITALY	Yasuyuki KAWAHIGASHI	The University of Tokyo	Analytical properties of standard subspaces and reflection positivity in AQFT
LI	Wenshuai		CHINA	Yoshio TAKAHASHI	The University of Tokyo	Precise evaluation of paleoenvironment based on molecular geochemistry of cerium
HE	Wenbin		CHINA	Takuro IDEGUCHI	The University of Tokyo	Development of ultrafast mid-infrared spectroscopy with optical fibers
POINCLOUX	Samuel	Jean, bernard	FRANCE	Kazumasa TAKEUCHI	The University of Tokyo	Buckly-grains: a model system for elucidating interplay of extreme deformations and reconfigurations
KARMAKAR	Purnendu		INDIA	Atsushi NISHIZAWA	The University of Tokyo	Testing generalized space-time geometry with multimessenger observations of gravitational waves
CHEN	Wei-ming		TAIWAN	Toshifumi NOUMI	Kobe University	Quantum gravity phenomenology based on S-matrix program
DI FILIPPO	Francesco		ITALY	Shinji MUKOHYAMA	Kyoto University	Hunting physics beyond General Relativity with gravitational waves
NGUYEN	Thanh	Hoang phuong	VIET NAM	Naoki WATANABE	Hokkaido University	Chemical reactions of organosulfur molecules on cosmic dusts at very low temperatures
GABORIAUD	Julien		CANADA	Satoshi TSUJIMOTO	Kyoto University	Study on Sklyanin-Heun operators and the Heun-Painleve correspondence
VAN DIJK	Inge	Evelien yolanda	NETHERLANDS	Takashi TOYOFUKU	Japan Agency for Marine-earth Science and Technology	TAKEIT - Uptake and precipitation of elements in foraminifera calcite
VALENTA	Jaroslav		CZECH	Naohito TSUJII	National Institute for Materials Science	Study of anomalous magnetism in d + f electron systems and its clarification using high pressure

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Family Name	First Name	Middle Name				
DINIZ	Gabriel	Sousa	BRAZIL	Teruaki ENOTO	RIKEN	Development of the standard theory for mysterious gamma-ray glows from thunderstorms
MONDAL	Tanmoy		INDIA	Shinya KANEMURA	Osaka University	Unified Solutions of Neutrino Mass, Dark Matter and Experimental Anomalies by Scalar Extension
YANG	Lilan		CHINA	John SILVERMAN	The University of Tokyo	Size and luminosity distribution of distant galaxies

## List of Fellows Selected through Open Recruitment in Japan

Chemistry

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Family Name	First Name	Middle Name				
PAN	Tiezheng		CHINA	Takafumi UENO	Tokyo Institute of Technology	Engineering of Hybrid Protein Crystals for Enzyme-coupled Photosynthesis
KIM	Hyung jong		KOREA (REP. OF KOREA)	Takuma YASUDA	Kyushu University	Development of innovative delayed fluorescence materials enabling ultra-narrowband emissions
DENG	Xiaohui		CHINA	Hiroshi KITAGAWA	Kyoto University	Electrochemical Biomass Upgrading and H <sub>2</sub> Production boosted by Synergy in Bifunctional Electrodes
PAPADOPOULOS	Ilias		GREECE	Nobuo KIMIZUKA	Kyushu University	Innovation of singlet fission based on controlled molecular self-assembly
HAN	Jianlei		CHINA	Shigenori FUJIKAWA	Kyushu University	Development of solid-state photon upconversion system using plasmonic nanointerfaces
CHENG	Weiren		CHINA	Kiyotaka ASAKURA	Hokkaido University	Ultra Fast X-ray absorption study on photo-excited electron in Pt / one-atomic layer oxide systems
XU	Wei		CHINA	Mitsuhiko MAESATO	Kyoto University	Prototropic Tautomerism Electronic Systems for Solid State Proton Conductors
PARMAR	Bhaveshkumar	Jagabhai	INDIA	Nobuhiro YANAI	Kyushu University	Creation of MOFs upconverting near-infrared light to visible light
WANG	Hao		CHINA	Zhaomin HOU	RIKEN	Rare-Earth-Catalyzed Regio- and Enantioselective Carboalumination of Alkenes and Alkynes
ZHOU	Dong		CHINA	Atsuo YAMADA	The University of Tokyo	In Pursuit of Non-Flammable Liquid Electrolytes for Lithium Metal Batteries
REINE DIAZ	Pablo		SPAIN	Tsuyoshi KAWAI	Nara Institute of Science and Technology	Enhanced Circularly Polarized Luminescence of Single Molecular Layers with Controlled Alignment

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Family Name	First Name	Middle Name				
SU	Zebin		CHINA	Takuzo AIDA	RIKEN	Solid-state supramolecular polymers: a new era for polymer science
BAE	Seonghee		KOREA (REP. OF KOREA)	Susumu SAITO	Nagoya University	Development of efficient photocatalytic CO <sub>2</sub> reduction by metal complexes bearing PNNP ligands
HUANG	Huang		CHINA	Susumu KITAGAWA	Kyoto University	Creation of Stimuli-Responsive Properties of Flexible HOFs

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LIU	Jibao		CHINA	Manabu FUJII	Tokyo Institute of Technology	Development of Advanced Anaerobic Digestion Using Multifunctionality of Sludge-Derived Biochar
ZHANG	Zilong		CHINA	Meiyong LIAO	National Institute for Materials Science	Diamond MEMS magnetic sensor for high temperature
SHENOY	Sulakshana		INDIA	Keiko SASAKI	Kyushu University	Chemical design and DFT approach of heterojunction photocatalysts for CO2 reduction
WANG	Qiang		CHINA	Osamu FUJITA	Hokkaido University	Combustion and flame spread physics over multi-layer flammable material in microgravity
HOWLADER	Harun or rashid		BANGLADESH	Tomonobu SENJYU	University of the Ryukyus	Integrating Large-Scale Renewable Energy Utilizing IoT and AI for Virtual Battery to Accelerate SDGs
SAU	Kartik		INDIA	Shin-ichi ORIMO	Tohoku University	Guiding principles for fast ionic solid-conductors
KIM	Gwoon		KOREA (REP. OF KOREA)	Hirromichi OHTA	Hokkaido University	Development of thermal transistors using transition metal oxides as the active materials
TRAN	Hung	The	VIET NAM	Masayuki ANYOJI	Kyushu University	Study on effect of automatic deflector for drag reduction of road vehicles in cross-wind conditions
KUMAR	Praveen		INDIA	Takashige OMATSU	Chiba University	Mode analysis of versatile structure light beams and its applications towards nano/micro-fabrication
LI	Hongjiang		CHINA	Shuji TAMURA	Tokyo Institute of Technology	Existing pile effects on new piles for sustainable foundation reuse in urban area
FAJAR	Adroit	Toriq nur	INDONESIA	Masahiro GOTO	Kyushu University	Metal extraction using biocompatible ionic liquid system assisted by machine learning

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Family Name	First Name	Middle Name				
PENG	Jinbo		CHINA	Shoji YOSHIDA	University of Tsukuba	Probing ultrafast carrier dynamics in 2D semiconductors at atomic scale
PADOVAN	Daniele		ITALY	Kiyotaka NAKAJIMA	Hokkaido University	Carboxylation with carbon dioxide for the production of furan dicarboxylic acid
SHAFIQ	Muhammad		PAKISTAN	Hiroyuki IJIMA	Kyushu University	Elucidation of the role of immunomodulation for vascular tissue repair with bioactive blood vessel
ZHANG	Ningqiang		CHINA	Kenichi SHIMIZU	Hokkaido University	Mechanism elucidation of atomic dispersion of bulk/nano metals toward design of atomic-site catalyst
VERMA	Akarsh		INDIA	Shigenobu OGATA	Osaka University	Theoretical development of biocompatible and shape-memorable magnesium alloys
DARMA	Panji	Nursetia	INDONESIA	Masahiro TAKEI	Chiba University	High Speed & Accurate Gastro Imaging by Fusion Technology of Wearable EIT & Machine Learning
ZHENG	Xingwen		CHINA	Fumihito ARAI	The University of Tokyo	A soft biomimetic robotic micro-manipulation system
ELBOHY	Hytham	Ibrahim hafez ibrahim	EGYPT	Yasuhiko HAYASHI	Okayama University	Outstanding thermoelectric properties of novel well-aligned lead-free perovskite nanostructures
JIA	Yunzhong		CHINA	Hideaki YASUHARA	Ehime University	Development of coupled T-H-M-C numerical simulator for supercritical geothermal system development
JAYAKUMAR	Prawin		INDIA	Di SU	The University of Tokyo	Damage diagnosis of network of similar bridges using a novel adaptive drive by vehicle
BAO	Haoming		CHINA	Katsuyoshi IKEDA	Nagoya Institute of Technology	In Situ THz-Surface-Enhanced-Raman Tracing of Molecule-Semiconductor Interactions



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CHENG	Shuo		CHINA	Kimihiko NAKANO	The University of Tokyo	Chassis Dynamics Domain Control for Autonomous Vehicles Toward Self-driving Safety
TIAN	Haochen		CHINA	Kaoru MINOSHIMA	The University of Electro-Communications	Study of real-time dual-comb spectroscopy in versatile spectral region based on on-chip devices
FENG	Ya		CHINA	Shigeo MARUYAMA	The University of Tokyo	Transport Properties and Device Applications of One-Dimensional Heterostructure Nanotubes
LIU	Jiangyang		CHINA	Takeshi YANAGIDA	The University of Tokyo	Development of filter-concentrator-sensor multifunctional hybrid chemical sensing system
AKRAM	Muhammad rizwan		PAKISTAN	Hiroki WAKATSUCHI	Nagoya Institute of Technology	Development of multi-functional antennas based on artificial electromagnetic materials
JAIWAL	Jyoti		INDIA	Kazuyoshi TSUCHIYA	Tokai University	Design and development of a selfpowered intelligent contact lens with 2D-MoS <sub>2</sub> for ocular diagnostics
KIM	Eunhye		KOREA (REP. OF KOREA)	Yoshihiro ITO	RIKEN	Development of immune checkpoint inhibitors by multivalent effect
SUBRAMANIAN	Natarajan		INDIA	Suguru NODA	Waseda University	Upcycling of Spent Lithium-Ion Batteries Electrodes Towards All-Solid-State Lithium-ion Batteries
HERNANDEZPINILLA	David		SPAIN	Tadaaki NAGAO	National Institute for Materials Science	Infrared Wavelength Selective Converters for Thermo-photoelectric Transduction
SHUANG	Yi		CHINA	Yuji SUTOU	Tohoku University	Fast phase transition in nitride and its application to non-volatile memory
LUO	Jinghuan		CHINA	Yu-you LI	Tohoku University	Development of advanced process for energy-creating low carbon innovation of wastewater treatment

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Family Name	First Name	Middle Name				
PYBUS	Hannah	Jane	UNITED KINGDOM	Taiji ADACHI	Kyoto University	A hybrid mathematical model of axon elongation and cerebellar folding patterns

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Family Name	First Name	Middle Name				
SHEN	Chen		CHINA	Jun TANIMOTO	Kyushu University	Novel frame for pandemic control by mathematical epidemiology coupled with evolutionary game theory
ROEHM	Andre		GERMANY	Makoto NARUSE	The University of Tokyo	Computational properties of photonic machine learning systems using reservoir computing
MEYER	Michael	Conrad	U.S.A.	Shinji KIMURA	Waseda University	Reliability and Performance of Future Satellite Computing Systems
RAJAONARIVO	Hiary	Landy	MADAGASCAR	Tsunenori MINE	Kyushu University	Ontology learning for local event detection using large-scale mobile positioning and SNS data

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Biological sciences

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Family Name	First Name	Middle Name				
RIGAILL	Lucie	Marie louise	FRANCE	Andrew MACINTOSH	Kyoto University	Effects of social constraints and parasitism on mate choice
KAO	Ping		TAIWAN	Minako UEDA	Tohoku University	Identification of cell fate specification mechanisms during early embryogenesis in Arabidopsis
PANINA	Yulia		RUSSIA FEDERATIO N	Yusuke OHBA	Hokkaido University	The role of ACE2 receptor in primary cilia and coronavirus infection
LIN	Che-hung		TAIWAN	Shunichi TAKAHASHI	University of the Ryukyus	Elucidation of synchronized spawning mechanism in corals
MARTINEZ GALVEZ	Gabriel	Felipe	COLOMBIA	Knut WOLTJEN	Kyoto University	Regulation of gene expression revealed by genome editing of repetitive and polymorphic cis-elements
BISWAS	Md.	Sanallah	BANGLADE SH	Junichi MANO	Yamaguchi University	The mechanism of reactive carbonyl species-mediated signaling in plants
LIU	Pin-wu		TAIWAN	Makoto KINOSHITA	Nagoya University	Elucidation of regulatory mechanism of liquid-liquid phase separation underlying synaptic plasticity

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Agriculture/Environmental sciences

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Family Name	First Name	Middle Name				
TAHIR	Mudassir	Hussain	PAKISTAN	Haruo KAWAMOTO	Kyoto University	Production of high-value green chemicals from biomass by catalytic thermochemical conversion
CHENG	Lihong		CHINA	Toshiro MATSUI	Kyushu University	Study on food factors preventing dementia pathogenesis
RAHMAN	Mir	Tamzid	BANGLADESH	Toshiaki YOSHIOKA	Tohoku University	Alginate coated LDH nanocomposite in deep eutectic solvent for water purification and CO2 reduction
LEE	Ying-ping		MALAYSIA	Hajime OBATA	The University of Tokyo	Mechanistic insights of microbial exudates in complexation and redox kinetics of iron and copper
AZAD	Md thoufic	Anam	BANGLADESH	Kentaro KATO	Tohoku University	Detailed mechanism of trafficking proteins involved in the virulence of Plasmodium falciparum
MOHAMMED	Abdelbaset	Eweda abdelbaset	EGYPT	Ryo NAKAO	Hokkaido University	Development of anti-tick vaccines targeting tick symbionts
JOTHI	Jakia sultana		BANGLADESH	Fumihiko TANAKA	Kyushu University	Modeling and optimization of UV-C treatment to extend shelf life of citrus fruit by CFD
LIANG	Wei-ren		TAIWAN	Munetoshi MARUYAMA	Kyushu University	Exploring life-history and symbiotic strategy of social insect symbiont using X-ray CT
FAIZAH	Astri	Nur	INDONESIA	Haruhiko ISAWA	National Institute of Infectious Diseases	Development of control strategy for vector-borne viral zoonoses utilizing the vector's microbiome
ZONG	Zheng		CHINA	Keisuke KOBAYASHI	Kyoto University	Nitrogen isotope composition of HONO emitted from soil
EL-SAYED	Shimma	Abd el-salam	EGYPT	Xuenan XUAN	Obihiro University of Agriculture and Veterinary Medicine	Development of molecular targeted therapeutic measures against canine babesiosis

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UDDIN	Md.	Nashir	BANGLADESH	Toru FUJIWARA	The University of Tokyo	Molecular mechanisms of nutritropism of rice roots
HUANG	Zichen		CHINA	Naoshi KONDO	Kyoto University	Ultra-Precision Agriculture Using Fluorescence Based Label Free Technology for Green Fruit
GEBRE	Girma gezimu		ETHIOPIA	Yuichiro AMEKAWA	Ritsumeikan University	Gendered impacts of climate change on agriculture, livelihood, and food security in East Africa
CAI	Jiabai		CHINA	Masaki TAKAOKA	Kyoto University	Oxidative destruction of refractory organic matter by titania-based metal single-atom co-catalyst
MITALO	Oscar	Witere	KENYA	Hiroshi EZURA	University of Tsukuba	Physio-molecular elucidations of cold stress response and postharvest chilling injury in tomato
YOUSEF	Mohamed	Samy abdelkader	EGYPT	Akio MIYAMOTO	Obihiro University of Agriculture and Veterinary Medicine	Blood platelets: a key regulator of immune cross-talk of embryo with uterus toward cow pregnancy
RAHMAN	Md mahfuzur		BANGLADESH	Naoki MIURA	Kagoshima University	Identify exosome specific molecule for melanoma biomarker and development a clinical application
DASPUTE	Abhijit	Arun	INDIA	Junpei TAKANO	Osaka Prefecture University	Molecular mechanisms of low boron tolerance in Indian mustard and its application
SARI	Nurmila		INDONESIA	Minoru YOSHIDA	RIKEN	Utilization of an energy metabolic control compound to treat mitochondrial diseases

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Medicine dentistry and pharmacy

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MARAHLEH	Aseel	Mahmoud suleiman	JORDAN	Itaru MIZOGUCHI	Tohoku University	Analysis of the effect of glucose control by osteocytes on bone metabolism
LEE	Ming-liang		TAIWAN	Tomomi NEMOTO	National Institutes of Natural Sciences	Deciphering a novel role of glucose-sensing neurons under torpor
ISLAM	Waliul	Md	BANGLADESH	Takuro NIIDOME	Kumamoto University	EPR-effect driven tumor delivery of multifunctional boron nanomedicine for neutron capture therapy.
AL-BUSANI	Hind	Abdullah ahmed	YEMEN	Emi NISHIMURA	Tokyo Medical and Dental University	The development of a novel anti-cancer therapy by elucidation of mechanism of stem cell self-renewal
LEONG	Man long		CHINA	Tasuku HONJO	Kyoto University	Investigation of EBV Latency Switch in Gastric Cancer to the Sensitivity of PDL1-based Immunotherapy
LEVENTOUX	Nicolas	Pierre philippe	FRANCE	Hideyuki OKANO	KEIO UNIVERSITY	Glia in Neurodegenerative Diseases: a Human Glial Chimeric Mouse Model
HOOVER	Brandon	Michael	U.S.A.	Motomasa TANAKA	RIKEN	Deciphering disaggregation mechanism of amyloid fibrils related to neurodegenerative diseases
NARADASU	Divya		INDIA	Akihiro OKAMOTO	National Institute for Materials Science	Iron-export mechanism coupled with extracellular electron transport in Porphyromonas gingivalis
MONIRUZZAMAN			BANGLADESH	Katsuyuki MIURA	Shiga University of Medical Science	Epidemiologic study on exercise-induced biomarkers and cerebral small vessel disease and cognition
ARIYANI	Winda		INDONESIA	Tadahiro KITAMURA	Gunma University	Application of epigenome editing for the understanding and treatment of obesity
SAMANTA	Sadhanendu		INDIA	Takumi WATANABE	Microbial Chemistry Research Foundation	Catalytic asymmetric total synthesis of MM249-143F7 compound, a novel antibacterial natural product