

## List of Fellows (FY2020 Invitational Fellowships for Research in Japan (Long-term))

Humanities

The following list includes the names of the selected fellows, their host researchers and research themes under the FY2020 JSPS Invitational Fellowships for Research in Japan (Long-term). Under this recruitment, 187 applicants were received, among which 61 fellowships were awarded.

Fellow' name (Family/First/Middle)	Nationality	Host Researcher	Host Institution	Research Theme
ZERNIK Clelia	FRANCE	MORI Yoshitaka	Tokyo University of the Arts	A New Future Through the Eyes of Contemporary Japanese Artists
HILLERT Dieter Gilberto	GERMANY	FUJITA Koji	Kyoto University	The Evolution of Higher Ordered Structures in Sequential Behavior
DING Xixia	CHINA	GUO Junhai	Kyushu University	Research on Zatsuji Literatures Compiled by Japanese Experts during the Edo and Meiji Era
SYURYUN Arzhaana	RUSSIA FEDERATION	KOGURA Norikazu	Tokyo University of Foreign Studies	A new collaborative approach with Russia to the documentation and studies on Altaic languages
DULINA Anna	RUSSIA FEDERATION	ISOMAE Junichi	National Institutes for the Humanities	The salvation and discrimination in the history of Japanese religion (focusing on the Hachiman cult)
BATMUNKH Tsogtbaatar	MONGOLIA	SHIRAISHI Noriyuki	Niigata University	Archaeological researches on the Mongol empire
VILOG Ron bridget Tiburcio	PHILIPPINES	BORLONGAN Ariane macalinga	Tokyo University of Foreign Studies	Language Issues of Migrants in Japan: The Case of Filipinos

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Social sciences

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GALLOWAY Nicola	UNITED KINGDOM	FUJIMOTO Toru	The University of Tokyo	Development and evaluation of a teaching model for a faculty training in English Medium Instruction
FLORANO Ebenezer Ronao	PHILIPPINES	KANEKO Yuka	Kobe University	Accounting for Disaster-Related Aid: The Case of Haiyan/Yolanda Donations
SMOCZYNSKI Rafal	POLAND	NAKANO Ryoko	Kanazawa University	The Innovation of Migrant Entrepreneurs in Japan: The Case of Tax Compliance
MUKHERJEE Saptarshi	INDIA	MUTO Nozomu	Yokohama National University	Social Value Improvement via Institutional Design: Auctions, Matching, and Public Goods Provisions
POLESE Abel	ITALY	OGAWA Sayaka	Ritsumeikan University	Conceptualizing Informality: Through an Academic Network of the Researchers in Asia and Europe
KRUMHUBER Eva	AUSTRIA	SATO Wataru	Kyoto University	A comparison between posed and spontaneous expressions of surprise in Japanese laypersons

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Mathematical and physical sciences

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MANEA Vlad Constantin	ROMANIA	YOSHIOKA Shoichi	Kobe University	Seismicity distribution and seamounts and fracture zones subduction in Japan and Mexico
ZELLMER Georg Florian	GERMANY	SAKAMOTO Naoya	Hokkaido University	Water in spinel: a robust hygrometer for the Earth and Planetary Sciences
UETA Toshiya	U.S.A.	OTSUKA Masaaki	Kyoto University	Comprehensive Study of Circumstellar Matter by 3-D Spectroscopy of PNe with Kyoto-U Seimei Telescope
VESPA Christine	FRANCE	KAWAZUMI Nariya	The University of Tokyo	Stable cohomology of the automorphism group of a free group and related topics
SAWICKI Marcin	CANADA	OHTA Kouji	Kyoto University	Tracing galaxy evolution with massive Subaru and CFHT surveys: mergers, reionization, and more
ZUBKO Yevgen	UKRAINE	WADA Koji	Chiba Institute of Technology	Phase-function slope as a tool to enhance the DESTINY PLUS study of asteroid Phaethon
SCHOMERUS Henning Ulrich	GERMANY	NORI Franco	RIKEN	Topological quantum optics: from quantum noise to light-induced topological phases of matter

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Chemistry

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YU Derrick Ethelbert	PHILIPPINES	MATSUDA Masaki	Kumamoto University	Studies on Ruthenium Phthalocyanine: Toward Tuning a Giant Negative Magnetoresistance Effect
EL-KHATEEB Mohammad Yaseen	JORDAN	KITAGAWA Hiroshi	Kyoto University	Highly conjugated Metal Organic Frame Work Based on Ni, Pd and Pt Containing Diacetylene Species
DU He-yun	TAIWAN	KUMATANI Akichika	Tohoku University	2D Materials for Energy Harvesting Applications: Active Site Design by Microscopic Analyses
JAFARI Mohammad Taghi	IRAN	MISAIZU Fuminori	Tohoku University	Development of a new ionization source at ambient pressure for ion mobility mass spectrometry

## List of Fellows (FY2020 Invitational Fellowships for Research in Japan (Long-term))

Engineering sciences

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Fellow' name (Family/First/Middle)	Nationality	Host Researcher	Host Institution	Research Theme
GHAREEB Ahmed Shawky Mohammed	EGYPT	MARUYAMA Shigeo	The University of Tokyo	Development of high performance and stable emerging solar cells with CNT-derived films
MODIN Oskar Daniel	SWEDEN	FUKUSHI Kensuke	The University of Tokyo	Innovation on resource recovery from wastewater by advanced microbial technique
PARK Keunhan	KOREA (REP. OF KOREA)	NOMURA Masahiro	The University of Tokyo	Phonon tunneling through sub-nanometer gaps in Lab-in-TEM
ALWARAPPAN Subbiah	INDIA	TSUJIMURA Seiya	University of Tsukuba	Electrochemical biosensor for acute myocardial infarction
TAURAN Yannick	FRANCE	FUJII Teruo	The University of Tokyo	Generation of Crystallization Phase Diagrams of DNA nanoparticles using Microfluidics
KULMATOVA Dilafruz	UZBEKISTAN	HARA Masahiko	Tokyo Institute of Technology	Application of Plasmonic Nanoparticle Assembly in Optically Active Arrays
VORONTSOV Dmitry Anatolievich	RUSSIA FEDERATION	SAZAKI Gen	Hokkaido University	The effect of adsorption dynamics of antifreeze protein molecules on crystallization of ice
QENAWA Amr Attia abuelwafa	EGYPT	SOGA Tetsuo	Nagoya Institute of Technology	Laser-assisted doping of graphene for using as transparent conducting electrodes
NAGATOMI Jiro	JAPAN	SAKAMOTO Naoya	Tokyo Metropolitan University	Multi-scale approach for comprehensive understanding of cellular responses to hydrostatic pressure
MARSTON Jeremy Oliver	UNITED KINGDOM	TAGAWA Yoshiyuki	Tokyo University of Agriculture and Technology	Needle-free injection device using high-speed microjets
PRANOWO	INDONESIA	ITAYA Yoshinori	Gifu University	Hybrid Absorption Heat Pump System Using Fine Crystal Slurry for Recovering Low Temperature Level

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LABERGE LEBEL Louis	CANADA	NAKAI Asami	Gifu University	Textile modelling of thermoplastic composites during secondary forming operations
MOHANTA Kallol	INDIA	SHIRAHATA Naoto	National Institute for Materials Science	Solution-processed p-n junction for heavy-metal-free quantum dot photodiodes
JUNG Jaehoon	KOREA (REP. OF KOREA)	KIM Yousoo	RIKEN	Exploring photochemical reaction mechanism on an ultrathin metal oxide film
CHOKSHI Atul Harish	INDIA	TSUJI Nobuhiro	Kyoto University	Effect of Grain Boundary Sliding on High Temperature Deformation of Hetero-Nanostructured Materials

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Informatics

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Fellow' name (Family/First/Middle)	Nationality	Host Researcher	Host Institution	Research Theme
GOUDA Karam Abdelghany abdelrahman	EGYPT	ISHIKAWA Yoshiharu	Nagoya University	Pattern-based Behavioral Modeling for Anomaly Detection in Complex Event Sequences
SCHOLER Falk Nicolas	AUSTRALIA	KANDO Noriko	Research Organization of Information and Systems	A measurement and evaluation framework for the presence of bias and misinformation in search results

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Biological sciences

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KIM Jung kyung	KOREA (REP. OF KOREA)	PHNG Li-kun	RIKEN	Fluid-solid interaction simulation of blood flow-induced endothelial cell deformations in vivo
VIDAKIVIC Melita	SERBIA	OKAMOTO Akimitsu	The University of Tokyo	MeFISH analysis of diabetes related gene
MORELLI Luis Guillermo	ARGENTINA	URIU Koichiro	Kanazawa University	Segmentation clock theory: from single cell oscillations to global tissue patterns
COWEN Stephen Leigh	U.S.A.	FUKAI Tomoki	Okinawa Institute of Science and Technology Graduate University	The underlying mechanisms of memory formation and age-related memory decline



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Agriculture/Environmental sciences

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FRANCIS Clinton David	U.S.A.	SENZAKI Masayuki	Hokkaido University	Towards a predictive framework for effects of sensory pollution: a test with Japanese and USA birds
MARTIN Stephen John	UNITED KINGDOM	TAKAHASHI Junichi	Kyoto Sangyo University	Impact of Varroa mites on viral landscape of native and non-native honeybees and hornets in Japan
TABOPDA Turibio Kuiate	CAMEROON	SHIONO Yoshihito	Yamagata University	Study on biological active compounds from medicinal plants and their endophytes in Cameroon
FAROOQI Abida	PAKISTAN	SETO Mayumi	Nara Women's University	The development of systematic Pb exposure risk assessment based on geochemical and climate datasets
KAHNG Samuel Ensung	U.S.A.	WATANABE Tsuyoshi	Hokkaido University	Role of thermal regime in limited biogeography of tropical corals
FIGUEIREDO Joana Cordeiro	U.S.A.	HARII Saki	University of the Ryukyus	Can aged coral larvae be the key to recover reefs?
LLORENS GARCIA Maria pilar	SPAIN	NANKO Kazuki	National Research and Development Agency Forest Research and Management Organization	The role of wind on rainfall partitioning by forest canopy: wind-driven rain and canopy swaying
GUPTA Dipali Rani	BANGLADESH	UENO Makoto	Shimane University	Studies on induction of resistance to blast fungus by microorganism-produced volatile substances
JIANG Zedong	CHINA	ODA Tatsuya	NAGASAKI UNIVERSITY	Application studies on the diverse bioactivities of seaweed-derived sulfated polysaccharides
GUPTA Aarti	INDIA	TRAN Lam-son.p	RIKEN	Characterization of Strigolactone crosstalk in regulating Arabidopsis response to combined stress
ADEYEMI Oluyomi Stephen	NIGERIA	KATO Kentaro	Tohoku University	Metabolomic profiling to develop new anti-protozoal drugs produced by new materials

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RAHMAN Md. Masudur	BANGLADESH	NISHIKAWA Yoshifumi	Obihiro University of Agriculture and Veterinary Medicine	Study of pathogenesis caused by livestock parasite, Neospora caninum, using gene editing technology

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Medicine dentistry and pharmacy

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PALAGA Tanapat	THAILAND	KOSEKI Haruhiko	RIKEN	The Role of Polycomb Repressive Complexes in Innate Immune Memory of Macrophages
BARON Roland Elie	U.S.A.	TANAKA Sakae	The University of Tokyo	Regulation of subchondral bone metabolism and articular joint function by osteocytes
HOQUE Sheikh Ariful	BANGLADESH	HAYAKAWA Satoshi	NIHON UNIVERSITY	Impact of Rotavirus-vaccine and Weather Factors on Viral Gastroenteritis in Japan and Bangladesh
FRIEDLAND Robert Paul	U.S.A.	MIZUNO Toshiki	KPUM	The effect of microbacteriome on the ALS pathomechanism using by ALS drosophila model