

List of Fellows (FY2020 Invitational Fellowships for Research in Japan (First Recruitment of Short-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 (First Recruitment of Short-term). Under this recruitment, 248 applicants were received, among which 90 fellowships were awarded.

| Fellow' name (Family/First/Middle) | Nationality | Host Researcher | Host Institution | Research Theme |
|---------------------------------------|----------------|------------------|-------------------------------|---|
| XU Hong | CHINA | OKAMURA Hidenori | Kyoto University | Comparative Research of Ancient City in East Asia |
| TENEV Darin Voynov | BULGARIA | NISHIYAMA Yuji | Tokyo Metropolitan University | Representation of Cats in Japanese and European Modern Literature: Death and Sexuality |
| FEIGELSON Kristian | FRANCE | TATEOKA Kumi | The University of Tokyo | Representation of Japanese Prisoners of WWII in Japanese and Ex-Soviet Novels and Cinema |
| HOPKINS Antony Gerald | UNITED KINGDOM | AKITA Shigeru | Osaka University | Reconsideration of the American Empire in Global History |
| SALGUERO Christopher Pierce | U.S.A. | DROTT Edward | Sophia University | Buddhism and Wellbeing in Contemporary Japan |
| ELLARD Graham | UNITED KINGDOM | IMAMURA Yusaku | Tokyo University of the Arts | "Technique or concept?" A comparative study of higher education in the arts in Japan and the UK |
| DUFOURMONT Eddy | FRANCE | MACHI Senjuro | Nishogakusha University | Promoting research on the exchange of philosophy between Japan and France on Meiji period |

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Social sciences

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|---------------------------------------|-------------|----------------------|-------------------------|--|
| MATSUDA Matt | U.S.A. | SCHWARZ Thomas | The University of Tokyo | The Pacific as an interconnected "Sea of Islands" |
| BRITZMAN Deborah P. | CANADA | GESHI Akira | NIHON UNIVERSITY | Pedagogy with Psychoanalysis: Enigmas of theory and practice for teacher education |
| WITVORAPONG Nopphol | THAILAND | KADOYA Yoshihiko | Hiroshima University | Race, Religion, and Family Caregiving |
| DAHLBERG Gunilla Astrom | SWEDEN | ASAI Sachiko | The University of Tokyo | Creation of creative and exploratory early childhood education using documentation |
| GODELIER Eric | FRANCE | YAGO Kazuhiko | Waseda University | Elites and Models of Management: structure of international transmission |
| WRIGHT Tarah Sharon alexandra | CANADA | UWASU Michinori | Osaka University | The Role of the Arts in Sustainable Development: Developing International Research Partnerships |
| FROESE Fabian Jintae | GERMANY | YASHIRO Atsushi | KEIO UNIVERSITY | Global Talent Recruitment in Japan |
| HERSTATT Cornelius | GERMANY | MORIMURA Fumikazu | Kobe University | The effect of frugal innovation on consumers attitude-behaviour gap toward using social innovation |
| BERETVAS Susan Natasha | U.S.A. | YAMADA Tsuyoshi | Okayama University | Meta-analysis of single-case research using multilevel modeling |

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Mathematical and physical sciences

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|---------------------------------------|----------------|-------------------------|---|---|
| AMENDOLA Luca | ITALY | TSUJIKAWA Shinji | Tokyo University of Science | Probing the origin of dark energy and dark matter |
| COQUEREAUX Robert | FRANCE | KAWAHIGASHI Yasuyuki | The University of Tokyo | Polytopes and higher honeycombs in representation theory |
| PAJITNOV Andrei | FRANCE | ENDO Hisaaki | Tokyo Institute of Technology | New generalizations of Inoue surfaces to higher dimensions and their properties |
| SU Zhongbo | NETHERLANDS | UENO Kenichi | University of Tsukuba | Land-atmosphere interaction studies in mountains based on remote sensing data |
| NEUKAMM Stefan | GERMANY | AKAGI Goro | Tohoku University | Quantitative stochastic homogenization for nonlinear evolution |
| PALMER Steven John | UNITED KINGDOM | SUGIYAMA Shin | Hokkaido University | Does the Greenland ice sheet accelerate upon drainage of a subglacial lake? |
| TOWNEND John | NEW ZEALAND | MIYAKE Hiroe | The University of Tokyo | Effects of complex fault structure on rupture progression and ground motion |
| PATANCHON Guillaume | FRANCE | ISHINO Hirokazu | Okayama University | Study of LiteBIRD systematic uncertainties for a precise measurement of CMB polarization. |
| FAUQUE Benoit | FRANCE | FUSEYA Yuki | The University of Electro-Communications | Study on the mechanism of orbital giant-magnetoresistance in semimetals and semiconductors |
| OSULLIVAN Gerard | IRELAND | HIGASHIGUCHI Takeshi | Utsunomiya University | High power laser-produced plasma soft x-ray source and its modeling |
| GOOLD John | IRELAND | BUSCH Thomas | Okinawa Institute of Science and Technology Graduate University | Non-equilibrium dynamics and thermodynamics of ultra-cold fermions in a steady state simulator. |

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|---------------------------------------|----------------|-----------------|---|---|
| CARLON Enrico | ITALY | SAKAUE Takahiro | Aoyama Gakuin University | Effect of twist-bend coupling on dynamics of DNA |
| KOENIG Michel | FRANCE | OZAKI Norimasa | Osaka University | Development of high-energy density science applications using superhigh resolution imaging |
| STOW Dorrik | UNITED KINGDOM | NISHIDA Naohisa | Tokyo Gakugei University | Contourite sedimentation and slope instability beneath the Kuroshio Current, offshore Japan |
| ONDERWATER Gerardus Cornelis johannes | NETHERLANDS | MIBE Tsutomu | High Energy Accelerator Research Organization | Storage of spin polarized muon and precision measurement of dipole moments |

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Chemistry

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|---------------------------------------|-------------|---------------------|-------------------------------|--|
| MANZHOS Sergei | CANADA | SEGAWA Hiroshi | The University of Tokyo | Theoretical studies on solid materials for photo-energy conversion |
| WUERTHNER Frank | GERMANY | YAMAGUCHI Shigehiro | Nagoya University | New Avenues in Supramolecular Polymer Chemistry Based on Precise Control of Molecular Orientation |
| HAZRA Partha | INDIA | TERAZIMA Masahide | Kyoto University | Development of regulation of nanoclusters using biomolecules and its characterization |
| YANG Shangfeng | CHINA | IMAHORI Hiroshi | Kyoto University | Chemical Functionalization of Nanocarbons and Two-Dimensional Materials for Organic Solar Cells |
| SOBANSKA Sophie | FRANCE | ISHIZAKA Shoji | Hiroshima University | Single particle analysis of black carbon levitated in air using an annular laser beam |
| FALCONE Ruben Dario | ARGENTINA | SHIROTA Hideaki | Chiba University | Molecular Science in Ionic Liquid-Reverse Micelle Hybrid System |
| JACOBSEN Eric Niels | U.S.A. | MURAKAMI Masahiro | Kyoto University | Development of Catalytic Asymmetric Reactions via Carbocations |
| BELMONTE Manuel | SPAIN | EINAGA Yasuaki | KEIO UNIVERSITY | Development on boron-doped diamond electrodes with 3D structures |
| KIM Hyung j. | U.S.A. | OUCHI Yukio | Tokyo Institute of Technology | Concerted study on the interface of ionic liquids by nonlinear spectroscopy and computer simulations |
| ZHANG Wanbin | CHINA | MASHIMA Kazushi | Osaka University | Development of transition metal catalysts for asymmetric hydrogenation and related reactions |
| SAMANTA Anunay | INDIA | KAWAI Akio | Kanagawa University | Relaxation of fluorescent all-inorganic Perovskite nanocrystals studied by pulsed ESR |

List of Fellows (FY2020 Invitational Fellowships for Research in Japan (First Recruitment of Short-term))

Engineering sciences

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| Fellow' name (Family/First/Middle) | Nationality | Host Researcher | Host Institution | Research Theme |
|---------------------------------------|-----------------------|--------------------------|--|--|
| PROOST Joris | BELGIUM | MURASE Kuniaki | Kyoto University | Novel Macro-porous Ni-based Electrodes for Electrochemical Hydrogen Production |
| HAH Jaegeun | KOREA (REP. OF KOREA) | TAKANASHI Koki | Tohoku University | Development of magneto-optical nano-material using self-organization of multilayer |
| GOGATE Parag Ratnakar | INDIA | KUBO Masaki | Tohoku University | Development of large-scale and ultrafast ultrasonic sonochemistry process by process intensification |
| GUSEV Vitali | FRANCE | WRIGHT Oliver bernard | Hokkaido University | Gigahertz optoacoustic nanowire-to-nanowire surface acoustic wave excitation and detection |
| NOGUES Josep | SPAIN | TANAKA Katsuhisa | Kyoto University | Preparation and magnetic properties of layered ferrite thin films with singular interface structures |
| BURSI Oreste Salvatore | ITALY | HARADA Yukihiro | Chiba University | Development of an interdisciplinary structural integrity engineering on urban infrastructures |
| KORZT Ulrich | GERMANY | SADAKANE Masahiro | Hiroshima University | Synthesis of new noble metal oxide cluster and application as catalysis |
| GORDON Reuven | CANADA | NIC CHORMAIC Sile | Okinawa Institute of Science and Technology Graduate University | Plasmonic trapping of individual submicron particles |
| AZIZI Hajhossein | IRAN | ASAHARA Yoshihiro | Nagoya University | Integrative research of resource geology, environmental science and archaeology in West Asia |
| BUCCI Matteo | ITALY | MORI Shoji | Kyushu University | High-speed IR measurement of wall temperature distribution on micro-structured surface |
| SIMONETTI Francesco | ITALY | HAYASHI Takahiro | Osaka University | Super-resolution ultrasonic imaging for in-process materials evaluation |

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|---------------------------------------|-------------|-------------------|--|--|
| ENKHBAT Rentsen | MONGOLIA | KAMADA Masaru | Ibaraki University | Practicable sampling theory based on non-linear optimal control theory |
| WANG Hao | CHINA | YAN Jiwang | KEIO UNIVERSITY | Atomistic study of surfactant-induced tribological phenomenon of shear bands during chip formation |
| PHONG Thai Khanh | AUSTRALIA | OTAKI Masahiro | Ochanomizu University | Transformation of micro organic chemicals in on-site wastewater treatment systems |
| SINGH Abhishek Kumar | INDIA | YASUMATSU Hisato | Toyota Technological Institute | Principle of electron-donation catalysis of supported sub-nano clusters toward practical design |
| HATTON Benjamin David | CANADA | UCHIKOSHI Tetsuo | National Institute for Materials Science | Electrophoretic deposition of hierarchical, nanoporous carbon materials through colloidal coassembly |
| HOLTZ Per olof | SWEDEN | KAMATA Norihiko | SAITAMA UNIVERSITY | Optical and Quantitative Study of Defect Levels in Nitride-Based Semiconductors |
| KOEHLER Bernd | GERMANY | NAKAHATA Kazuyuki | Ehime University | Noninvasive and noncontact material evaluation of structural components using scanning laser system |

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Informatics

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|---------------------------------------|-------------|-----------------|--|---|
| WU Junfeng | CHINA | ISHII Hideaki | Tokyo Institute of Technology | Cyber Security of Distributed Algorithms in Wireless Sensor Networks |
| CHEN Jun | CHINA | OOHAMA Yasutada | The University of Electro-Communications | Construction of New Communication Theory which is a Basis of Advanced IoT Society Using AI |
| GOOYA Ali | IRAN | MASAMUNE Ken | Tokyo Women's Medical University | Early prediction of brain tumor recurrence maps using deep learning and imaging |
| CAIAFA Cesar federico | ARGENTINA | ZHAO Qibin | RIKEN | Theory and algorithms for machine learning with incomplete data |
| LIN Po-hung | TAIWAN | SATO Takashi | Kyoto University | Design automation for organic transistor circuit and its layout considering performance degradation |

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Biological sciences

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|---------------------------------------|-------------|----------------------------|--|---|
| WELLS David Norman | NEW ZEALAND | DANG-NGUYEN Thanh quang | National Agriculture and Food Research Organization | Overcoming epigenetic barriers to reprogramming somatic cells following nuclear transfer in pigs |
| KUMAR Sudhir | U.S.A. | TAMURA Koichiro | Tokyo Metropolitan University | Development and implementation of molecular evolutionary analysis methods using machine learning |

List of Fellows (FY2020 Invitational Fellowships for Research in Japan (First Recruitment of Short-term))

Agriculture/Environmental sciences

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| GAJAHIN GAMAGE Tushara Chaminda | SRI LANKA | NAKAJIMA Fumiyuki | The University of Tokyo | Fate and behavior of micropollutants in urban waters in Galle, Sri Lanka |
| MUKHOPADHYAY Sandip Kumar | INDIA | OGAWA Hiroshi | The University of Tokyo | Comparative dissolved organic matter (DOM) dynamics between oceanic and wetland environments |
| POURKHEIRANDISH Mohammad | IRAN | KOMATSUDA Takao | National Agriculture and Food Research Organization | Exploring the molecular pathway controlling grain dispersal in cereals |
| CAMPBELL Hugh Roberts | NEW ZEALAND | ISODA Hiroshi | Kyushu University | Food Regime Approach to Reorganization of International Agro-Food Relations under the Mega EPA |
| THOMAS Philip John | UNITED KINGDOM | MURAKAMI Michio | Fukushima Medical University | J-value optimization of remediation and return policies after the Fukushima accident |
| MOSQUEDA Juan | MEXICO | KAWAZU Shinichiro | Obihiro University of Agriculture and Veterinary Medicine | Application of genome-editing technology for development of live vaccine against bovine babesiosis |
| AGHAJARI Nushin | DENMARK | KIMURA Atsuo | Hokkaido University | Molecular mechanism of GH97 group enzyme: solving problems by structural biological approaches |
| JANTASURIYARAT Chatchawan | THAILAND | IKEDA Kenichi | Kobe University | Cytological analysis of the effect of effector polymorphisms on virulence in <i>Pyricularia oryzae</i> |
| PASZKOWSKI Uta anneliese maria | GERMANY | SHIRASU Ken | RIKEN | Chemical biology of plant symbiosis |
| KHUWIJITJARU Pramote | THAILAND | ADACHI Shuji | Kyoto University of Advanced Science | A novel method for producing rare sugars and their application to food manufacturing |
| COOK Aonghais | UNITED KINGDOM | KAZAMA Kentaro | Waseda University | Assessing the vulnerability of Japanese seabirds to offshore wind farms |

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| THEKISOE Oriel Matlhahane molifi | SOUTH AFRICA | XUAN Xuenan | Obihiro University of Agriculture and Veterinary Medicine | Epidemiological study on bovine babesiosis in South Africa and establishment of control measures |
| WENGER John | UNITED KINGDOM | KAJII Yoshizumi | Kyoto University | Formation mechanism and airborne experiments of secondary organic aerosols |

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Medicine dentistry and pharmacy

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| LIMA DE OLIVEIRA Matheus | BRAZIL | YOSHIURA Kazunori | Kyushu University | Influence of the X-ray beam divergence on cone-beam CT metal artifacts arising in the exomass |
| KLOSE Karl Erik | U.S.A. | HOMMA Michio | Nagoya University | Study on Vibrio flagellar formation and pathogenicity |
| BILKEI-GORZO Andras | HUNGARY | AKIMOTO Takayuki | Waseda University | Analysis of premature aging by deletion of microRNAs |
| MAIER Marc Andre | SWITZERLAND | NAKAJIMA Katsumi | Iwate Medical University | Cortical mechanisms related to bipedal locomotion in Japanese monkeys |
| AHMED Ashraf Mohamed | EGYPT | SHIMAMOTO Tadashi | Hiroshima University | Genomic approach for understanding the mechanisms of antimicrobial resistance in pathogenic bacteria |
| SEGAL Neil A | U.S.A. | MATSUSE Hiroo | Kurume University | To investigate the prevention of locomotive syndrome from Japan-U.S. large-scale clinical research |
| KASHIWAGI Satoshi | U.S.A. | KIMIZUKA Yoshifumi | National Defense Medical College | International collaboration of NIR-laser vaccine adjuvant research |
| ANDREWS Ross Hector | AUSTRALIA | AGATSUMA Takeshi | KOCHI UNIVERSITY | International collaboration of opisthorchiasis (a cause of cholangiocarcinoma) in southeast Asia |
| LEQUEUX Thierry | FRANCE | YANAI Hikaru | Tokyo University of Pharmacy and Life Sciences | Development of fluorine-containing substituents directed to medicinal chemistry |
| VOLTA Mattia | ITALY | HATTORI Nobutaka | Juntendo University | The pathophysiology of Parkinsons disease: autophagy-lysosome pathway in cells and human brain |