

List of Fellows (FY2024 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 recruitment of FY2024 JSPS Invitational Fellowships for Research in Japan (Long-term). Under this recruitment, 217 applicants were received, among which 60 fellowships were awarded.

| Fellow' name (Family/First/Middle) | Nationality | Host Researcher | Host Institution | Research Theme |
|--|----------------------|---------------------|--|---|
| SOLONIN Kirill | ISRAEL | Shintaro ARAKAWA | Tokyo University of Foreign Studies | Study of Tangut grammar and lexicon based on the Buddhist materials |
| MEIR Jonatan | ISRAEL | Masahiro SHIDA | The University of Tokyo | Kabbalah and Modern Popular Religious Movements |
| MOGUCHII Andrei Anatolievich | RUSSIA FEDERATION | Kumi TATEOKA | The University of Tokyo | Aspects of Avant-garde Theatre in Post-Soviet period in St Petersburg: critical inheritance |
| DUNDAR Fuat | TURKEY | Jun AKIBA | The University of Tokyo | A Comparative Study on Post-imperial Repatriates: Japanese Hikiagesha and Turkish Evlad-i Fatihan |
| SKEDZUHN-SAFIR Alexandra Lilian Martina | GERMANY | Mariko IKEDA | University of Tsukuba | Research on the significance of odours at heritage sites and their impact on heritage conservation |
| SRIPANA Thanyathip | THAILAND | Mikiko ONO | Kyoto University | A historical approach to Viet Kieu society in Thailand based on Vietnamese Buddhist temples' survey |
| LIAO Chin Ping | TAIWAN | Takahiro FUKU | Kyoto University | The intersection between modern Chinese and Japanese philosophical thinking and their practices |
| ZHENG Juxin | CHINA | Nanyan GUO | MEIJI UNIVERSITY | Dissemination of China's Jiangnan Culture to Japan by Missionaries |

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Social sciences

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|---------------------------------------|-----------------------|-------------------------|-------------------|--|
| REYES-JAQUEZ Bolivar | DOMINICAN REPUBLIC | Yusuke MORIGUCHI | Kyoto University | Children's gender stereotyping, and emerging interest in leadership roles across cultural settings |
| TURGEON Mathieu | CANADA | Tetsuya MATSUBAYASHI | Osaka University | Public attitudes toward information technology and immigration: Evidence from Japan and Canada |
| ZANINI Marco Tulio Fundao | BRAZIL | Masao KIKUCHI | MEIJI UNIVERSITY | Understanding Trust and Compliance in Public Health Guidance: Brazilian and Japanese Case Studies |
| FUCHS Eckhardt | GERMANY | Takahiro KONDO | Waseda University | Countering Narratives of Violence: Transnational History Textbooks in Europe and East Asia |
| MORGNER Christian | UNITED KINGDOM | Takemitsu MORIKAWA | KEIO UNIVERSITY | Japanese Thinking of Nature and Environment in Transition: A Systems Theoretical Approach |
| KNIGHT Nancy Jane | CANADA | Miki SUGIMURA | Sophia University | Multi-actor perspectives on their roles and policies regarding knowledge diplomacy and security |

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Mathematical and physical sciences

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|---------------------------------------|-------------|----------------------------|-------------------------|--|
| SINGER Bradley Sherwood | U.S.A. | Reishi TAKASHIMA | Tohoku University | Improvement of Cretaceous standard Geologic Time Scale |
| FELDHEIM Ohad Noy | ISRAEL | David alexander CROYDON | Kyoto University | Between graphical load balancing and the stochastic heat equation |
| SCHUBNEL Alexandre | FRANCE | Satoshi IDE | The University of Tokyo | Seismicity: Seasonality and Tremor Mechanisms [SYSTEMS] |
| FLINDT Christian | DENMARK | Franco NORI | RIKEN | Quantum Thermodynamics of Open Quantum Systems and Quantum Information Processors |
| MIYAJI Takamitsu | JAPAN | Yoshihiro UEDA | Kyoto University | Detailed Assessment of X-ray and Infrared Luminosity Functions of Active Galactic Nuclei |

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Chemistry

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|---------------------------------------|-------------|------------------|---------------------|---|
| ADNAN Rohul Hayat Bin | MALAYSIA | Katsuaki KONISHI | Hokkaido University | Structure-Activity Relationships of Gold Clusters in Photocatalytic Hydrogen Peroxide Synthesis |
| SINGH Tejwant | INDIA | Nobuo KIMIZUKA | Kyushu University | Development of pH-responsive photonupconversion molecular systems and their applications |
| YUDIN Andrei K. | CANADA | Hajime ITO | Hokkaido University | Rational design and highly efficient mechanochemical synthesis of multi-functional compounds |
| MIRCEA Dinca | U.S.A. | Satoshi HORIKE | Kyoto University | Synthesis and design principles of electrically conductive MOF glasses |

List of Fellows (FY2024 Invitational Fellowships for Research in Japan (Long-term))

Engineering sciences

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|---------------------------------------|--------------------------|-----------------------|-------------------------------|--|
| MIRUMACHI Naho | JAPAN | Taikan OKI | The University of Tokyo | Virtual water trade analysis to uncover human-water interactions for sustainable management of water |
| WANG Qiang | CHINA | Nozomu HASHIMOTO | Hokkaido University | Development of ammonia combustion optimization technology with a modified EGR |
| SUN Zhen-Dong | CHINA | Katsuyuki FUKUTANI | The University of Tokyo | Determination of nuclear-spin-isomer ratio with the use of spin-polarized beam |
| KIM Yangjin | KOREA (REP. OF KOREA) | Naohiko SUGITA | The University of Tokyo | Development of absolute curvature measurement system for large aperture ultra-precision lenses |
| NOURANI Vahid | IRAN | Sameh KANTOUSH | Kyoto University | Large scale climatic teleconnection for predicting extreme hydro-climatic events at southern Japan |
| NGUYEN Thanh Huong | U.S.A. | Daisuke SANO | Tohoku University | Development of monitoring method for antibiotic resistance genes in environments with CRISPR-Cas9 |
| KOOFIGAR Hamidreza | IRAN | Takayuki ISHIZAKI | Tokyo Institute of Technology | Development of Robust Analysis and Synthesis Strategy for Uncertain Complex Networks |
| BAUER Thomas | GERMANY | Yukitaka KATO | Tokyo Institute of Technology | Assessment of thermal energy storage for alternative renewable fuel supply |
| BAT-ORGIL Turmandakh | MONGOLIA | Keiji WADA | Tokyo Metropolitan University | Energy smoothing system by reusing large-capacity automotive batteries in Mongolia |
| SALEH Alaaeldine Shaker Mohammed | EGYPT | Masahiko NAKASE | Tokyo Institute of Technology | Study on effective separation of critical metals by nobel diamide extractants |
| KURU Ergun | CANADA | Shigemi NAGANAWA | Akita University | Understanding and Mitigating Leakage Pathways in Supercritical/Super-Hot Geothermal Well Cements |
| BANESHI Medhi | IRAN | Atsuki KOMIYA | Tohoku University | Radiative Heat Transfer Control of Porous Polymer Metamaterials and Its Application to Cooling |

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Engineering sciences

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|---------------------------------------|-----------------------|-----------------|------------------|---|
| JUNG Jaehoon | KOREA (REP. OF KOREA) | Yousoo KIM | RIKEN | Exploring photochemical reaction mechanism on an ultrathin metal oxide film |

List of Fellows (FY2024 Invitational Fellowships for Research in Japan (Long-term))

Informatics

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|---------------------------------------|-------------|-----------------|-------------------------|--|
| POKUTTA Sebastian | GERMANY | Akiko TAKEDA | The University of Tokyo | Developing subspace conditional gradient methods based on random projection |
| MALACRIA Sylvain Dan | FRANCE | Koji YATANI | The University of Tokyo | Science Communication Support Using Generative AI with Large Language Models |

List of Fellows (FY2024 Invitational Fellowships for Research in Japan (Long-term))

Biological sciences

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|---------------------------------------|-------------|-----------------|-------------------------------|--|
| SRIVASTAV Ajai Kumar | INDIA | Nobuo SUZUKI | Kanazawa University | Study on the endocrine disrupting effect of styrene trimer, one of pollutant derived from plastics |
| PEREZ ANTONANZAS Alberto | SPAIN | Yuji SUGITA | RIKEN | Structure predictions of protein-DNA complexes by multi-scale simulation with Bayesian inference |
| STRELTSOV Victor | AUSTRALIA | Yoshitaka ISHII | Tokyo Institute of Technology | Unveiling Biomolecular co-condensates of Amyloid-beta and tau proteins in Alzheimer Disease |
| BARSHIS Daniel James | U.S.A. | Saki HARI | University of the Ryukyus | Diagnosing thermal limits of mesophotic corals in Okinawa |

List of Fellows (FY2024 Invitational Fellowships for Research in Japan (Long-term))

Agriculture/Environmental sciences

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|---------------------------------------|----------------|--------------------|---|--|
| ULHAQ Zulvikar Syambani | INDONESIA | Ka fai william TSE | Kyushu University | Transgenerational Impact of PFHxS Exposure and its Association with Cancer Development in Indonesia |
| WANG Ou | CHINA | Tomoaki NAKATANI | The University of Tokyo | Comparative Study on Influence of Asian Food Tradition on Consumer Adoption of Innovative Foods |
| DAHLGREN Randy Alan | U.S.A. | Tetsuhiro WATANABE | Kyoto University | Elucidating Nitrogen Release Mechanisms into Different Terrestrial Ecosystems |
| HIRST Andrew Garwood | UNITED KINGDOM | Takahiro IRIE | The University of Tokyo | Warming-induced reductions in body size in aquatic ectotherms: a new insight on large species |
| RAHMAN Md Matiur | BANGLADESH | Yasuo INOSHIMA | Gifu University | Establishment of a preclinical diagnostic method of enzootic bovine leukosis using milk exosomes |
| ELSAMADONY Mohamed Mahmoud | EGYPT | Manabu FUJII | Tokyo Institute of Technology | Quantitative assessment of progress and long-term projection for SDGs by using data-driven approach |
| SHRUTHI | INDIA | Motohiko KONDO | Nagoya University | Combined use of iron materials and organic resources to enhance N fixation in rice paddy field |
| HOSSAIN Md. Motaher | BANGLADESH | Naoki YAMANAKA | Japan International Research Center for Agricultural Sciences | Molecular and pathological characterization of a highly pathogenic soybean rust fungus in Bangladesh |
| CAO Zhi | CHINA | Keisuke NANSAI | National Institute for Environmental Studies | ENvisioning SUsustainable material cycles in a carbon-neutral futuRE (ENSURE) |
| BHANDARI Govinda | NEPAL | Hirotsu MURANO | Meijo University | Sorbents and those interactions are essential for soil sorption of pesticides with phosphonic groups |
| HOLIC Roman | SLOVAKIA | Shigeaki SAITOU | Kurume University | Production of a valuable polyunsaturated fatty acid by CRISPR-mediated metabolic engineering |
| SAIDI Noor Baity | MALAYSIA | Tsutomu ARIE | Tokyo University of Agriculture and Technology | Novel biocontrol strategy for banana wilt based on microbiome analysis of disease-suppression |

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Medicine dentistry and pharmacy

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|--|-------------|-------------------|---|--|
| PIKE Ian | CANADA | Kazuko OKAMURA | National Research Institute of Police Science | Testing the effects of a social marketing campaign to increase booster seat use in child passengers |
| WANJIHIA Violet Wanjiku | KENYA | Satoshi KANEKO | NAGASAKI UNIVERSITY | Institutional Research on Modern Tech & IoT Usage for Maternal & Child Health in Africa |
| MARTINO Mikael | SWITZERLAND | Shizuo AKIRA | Osaka University | Developing novel regenerative medicine approaches based on regulatory T cell delivery |
| SCZEPANSKI Jonathan T. | U.S.A. | Motomu KANAI | The University of Tokyo | Elucidation of histone modification-DNA repair relationships by synthetic method for polynucleosomes |
| BARINDA Agian Jeffilano | INDONESIA | Ippei SHIMIZU | National Cerebral and Cardiovascular Center | Exploration to reverse aging with a complement system |
| ABOAHMED Ahmed Ibrahim Mohamed Ibrahim | EGYPT | Yoshiya KAWAGUCHI | Kyoto University | Pancreatic exocrine tissue-driven CCL5 stimulates the proliferation of endocrine beta-cells |