

JSPS Summer Program: List of Researchers of SOKENDAI

Besides being a co-organizer and provider of the orientation sessions and final meeting of the JSPS Summer Program, SOKENDAI can be the host institution for your research experience during the summer, as it is one of the leading universities in Japan with top-level faculty across disciplines. In the following, we introduce some of our professors who are willing to accept JSPS fellows who are interested in their work. We would be most delighted if you could find a future host professor here.

Note: If you wish to work with one of the professors listed on this page, you are asked to contact him/her on your own to seek acceptance.

The accepting affiliation will be Inter-University Research Institutes (IURI) except the case of Department of Evolutionary Studies of Biosystems, SOKENDAI.

Department of Japanese Literature, Tachikawa, Tokyo

Organization website: <https://www.nijl.ac.jp/en/activity/#education>

| Affiliation | Name | Research Field | Research Subject | Lab URL (Optional) | E-mail address (Optional) |
|---|--------------------|---|---|--------------------|--|
| National Institute of Japanese Literature | Yoshitaka YAMAMOTO | Sinitic Literature of Edo and Meiji Japan | Classical Chinese prose, poetry, and Confucian texts by 17th to 19th-century Japanese authors | | yamamoto.yoshitaka@nijl.ac.jp |

Department of Astronomical Science / National Astronomical Observatory of Japan, Mitaka, Tokyo

Organization website: <https://guas-astronomy.jp/eng/index.html>

| Affiliation | Name | Research Field | Research Subject | Lab URL (Optional) | E-mail address (Optional) |
|--|-----------------|------------------------------------|--|---|--|
| National Astronomical Observatory of Japan | Masayuki TANAKA | Extragalactic astronomy, cosmology | Galaxy formation and evolution Near-field cosmology | https://www2.nao.ac.jp/~masayuki/ | masayuki.tanaka@nao.ac.jp |

Department of Space and Astronautical Science / Japan Aerospace Exploration Agency, Sagamihara

Organization website: <http://www.isas.jaxa.jp/sokendai/e/>

| Affiliation | Name | Research Field | Research Subject | Lab URL (Optional) | E-mail address (Optional) |
|---|-------------|--|--|--|--|
| Department of Space and Astronautical Science, School of Physical Sciences, The Graduate University for Advanced Studies, SOKENDAI Institute of Space and Astronautical Science (ISAS), Japan Aerospace Exploration Agency (JAXA) | Taro SAKAO | High Energy Solar Physics | 1. Investigation of high-energy phenomena in the solar corona such as flares through analyses of X-ray data from space observatories including Hinode, Yohkoh, and SDO/AIA. 2. Development of precision X-ray mirrors and high-speed X-ray CMOS sensors for future high-energy solar physics missions aiming to reveal mechanisms of electron acceleration in flares. | www.phoenix-project.science | sakao@solar.isas.jaxa.jp |
| Institute of Space and Astronautical Science | Hajime YANO | Solar System Exploration Science, Astrobiology | Micrometeoroids, Solar System Small Bodies, Ocean Worlds, Interstellar Objects | | yano.hajime@jaxa.jp |

Department of Accelerator Science / High Energy Accelerator Research Organization, Tsukuba (KEK)Organization website: http://kek.soken.ac.jp/sokendai_en/

| Affiliation | Name | Research Field | Research Subject | Lab URL (Optional) | E-mail address (Optional) |
|--|--------------------------------------|-------------------------------------|-----------------------------|---|--|
| High Energy Accelerator Research Organization (KEK) | Kazuro FURUKAWA Yoshinori ENOMOTO | Accelerator physics and engineering | Electron and positron linac | http://www-linac.kek.jp/linac/ | Kazuro.furukawa@kek.jp Yoshinori.enomoto@kek.jp |
| High Energy Accelerator Research Organization (KEK) / SOKENDAI | Shoji HASHIMOTO | Theoretical Particle Physics | Lattice Field Theory | | shoji.hashimoto@kek.jp |

Department of Materials Structure Science / Institute of Materials Structure Science, Tsukuba (KEK)Organization website: http://kek.soken.ac.jp/sokendai_en/

| Affiliation | Name | Research Field | Research Subject | Lab URL (Optional) | E-mail address (Optional) |
|--|----------------|---|--|---|--|
| Structural Biology Research Center IMSS, KEK | Toshiya SENDA | Structural Biology | Metabolism, Gene expression, Glycometabolism, Infectious disease, Redox enzyme, Beamline science | https://www2.kek.jp/imss/sb/rc/eng/ | toshiya.senda@kek.jp |
| Muon Science Laboratory, School of Materials Structure Science, The Graduate University for Advanced Studies, SOKENDAI | Ryosuke KADONO | Muon Spin Rotation/Strongly correlated electron systems/Hydrogen-related phenomena in materials | Quantum magnetism, superconductivity, muon as pseudo-hydrogen | | ryosuke.kadono@kek.jp |

Department of Particle and Nuclear Physics / Institute of Particle and Nuclear Studies, Tsukuba (KEK)

Organization website: http://kek.soken.ac.jp/sokendai_en/

| Affiliation | Name | Research Field | Research Subject | Lab URL (Optional) | E-mail address (Optional) |
|---|----------------------|--|---|---|--|
| Institute of Particle and Nuclear Studies, High Energy Accelerator Research Organization/SOKENDAI | Tetsuichi KISHISHITA | Semiconductor sensors and the application of the readout systems | <ul style="list-style-type: none"> ▪ Silicon Pixel Sensor R&D. ▪ Wide-gap Semiconductor Materials. ▪ Application Specific Integrated Circuit Designs for Sensor Readout. ▪ High-density System Integration. | http://www-esys.kek.jp | kisita@post.kek.jp |
| Institute of Particle and Nuclear Studies, High Energy Accelerator Research Organization/SOKENDAI | Masaya MIYAHARA | Sensing and control applications of state-of-art CMOS processes. | <ul style="list-style-type: none"> ▪ Micro-power analog signal digitization ▪ Reconfigurable analog to digital convertor ▪ GHz analog signal processing ▪ Application specific integrated circuit development for sensors | http://www-esys.kek.jp | masaya@post.kek.jp |

| Affiliation | Name | Research Field | Research Subject | Lab URL (Optional) | E-mail address (Optional) |
|--|-------------------|--|---|---|--|
| Institute of Particle and Nuclear Studies, High Energy Accelerator Research Organization/SOKENDAI | Manobu M TANAKA | Elementary Particle Physics and applications of sensors and integrated circuits. | <ul style="list-style-type: none"> ▪ Table top experiments. ▪ Applications of wide-gap semiconductors(Diamond etc) and nano-structure devieces. | http://www-esys.kek.jp | tanakam@post.kek.jp |
| Institute of Particle and Nuclear Studies/SOKENDAI | Shinsuke KAWASAKI | Particle Physics Experiment | Ultra-Cold Neutron Physics, Cryogenics | | shinsuke.kawasaki@kek.jp |
| KEK IPNS SOKENDAI School of High Energy Accelerator Science Department of Particle and Nuclear Physics | Toshinobu MIYOSHI | Detector Development | SOI semiconductor sensor development | http://rd.kek.jp/project/soi/ | tmiyoshi@post.kek.jp |

Department of Statistical Science / The Institute of Statistical Mathematics, Tachikawa, Tokyo

Organization website: https://www.ism.ac.jp/senkou_eng/index.html

| Affiliation | Name | Research Field | Research Subject | Lab URL (Optional) | E-mail address (Optional) |
|--|----------------|---------------------------|--|--------------------|---------------------------|
| The Institute of Statistical Mathematics | Shin'ya NAKANO | Space physics, geophysics | Data assimilation, data analytics in geosciences | | |

Department of Informatics / National Institute of Informatics, Chiyoda-ku, TokyoOrganization website: <https://www.nii.ac.jp/graduate/en/>

| Affiliation | Name | Research Field | Research Subject | Lab URL (Optional) | E-mail address (Optional) |
|--|-------------------|---|---|---|--|
| Information Systems Architecture Science Research Division | Tomohiro YONEDA | Hardware Design | Asynchronous Circuit Design, Hardware Implementation of Neural Networks | https://www.nii.ac.jp/en/faculty/architecture/yoneda_tomohiro/ | yoneda@nii.ac.jp |
| Department of Informatics / NII | Ryutaro ICHISE | Artificial Intelligence | Semantic Web, Machine Learning, Data Mining | http://ri-www.nii.ac.jp/ | |
| National Institute of Informatics | Tetsunari INAMURA | Intelligent Robotics, Virtual Reality, Human-Robot Interaction, | Development of an explainable robot to guide human in daily life environment Research on sense of agency/ownership using virtual reality | | inamura@nii.ac.jp |
| National Institute of Informatics | Yuichi YOSHIDA | Algorithms for Massive Data (Theoretical Computer Science and Data Mining) | Sublinear-Time Algorithms, Submodular Functions, Spectral Graph Theory. | http://research.nii.ac.jp/~yyoshida/ | yyoshida@nii.ac.jp |

Department of Genetics / National Institute of Genetics, MishimaOrganization website: <http://www.nig.ac.jp/jimu/soken/index-e.html>

| Affiliation | Name | Research Field | Research Subject | Lab URL (Optional) | E-mail address (Optional) |
|---|----------------|-------------------------------------|--|---|--|
| National Institute of Genetics, Research Organization of Information and Systems / Department of Genetics, School of Life Science, SOKENDAI | Hitoshi SAWA | Developmental Biology, Cell Biology | Developmental regulation of cell fates and cell polarity in <i>C. elegans</i> | http://square.umin.ac.jp/Nemalab/index-e.html | hisawa@nig.ac.jp |
| National Institute of Genetics, Research Organization of Information and Systems / Department of Genetics, School of Life Science, SOKENDAI | Fumi KUBO | Neuroscience | Neural circuit for visual processing and behavior in zebrafish | http://kubolab.jp/wp/en/ | fumikubo@nig.ac.jp |
| Physics and Cell Biology Laboratory, Department of Chromosome Science, National Institute of Genetics | Yuta SHIMAMOTO | Biophysics & Cell Biology | Mechanisms of cell division (in vitro reconstitution of motor-microtubule systems, spindle force measurement, chromosome segregation dynamics) | https://shimamotolab.weebly.com | yuta.shimamoto@nig.ac.jp |
| National Institute of Genetics | Jun KITANO | Evolutionary Biology | Genetic and genomic basis for adaptation and speciation in natural animal populations | http://ecogen.sakura.ne.jp/index-e.html | jkitano@nig.ac.jp |