

# FY2007

## JSPS Postdoctoral Fellowship for Foreign Researcher

Field: **Mathematical and Physical Sciences**

note:

- Regions and prefectures are listed in right-hand column.
- Scroll down to find map of regions and prefectures.

JSPS Postdoctoral Fellowship for Foreign Researcher  
(FY 2005 Humanities and Social Sciences)

Name (Nationality)	Research Subject	Host Institute Host Researcher	Period	Region Prefecture
AAKRE, B. M.  NORWAY	Design and Entrepreneurship Education in Japan and Norway	Hokkaido Tokai University  KAWASAKI, Kazuhiko Professor <i>School of International Cultural Relations</i>	Nov. 1, 2005— Feb. 28, 2007	Hokkaido Hokkaido
ABDUL, W.  PAKISTAN	Public Debt Burden and Slow Economic Growth: A Case Study of Severely Indebted Low Income Country	University of Nagoya  EZAKI, Mitsuo Professor <i>Graduate School of International Development</i>	Apr. 1, 2005— Mar. 31, 2007	Chubu Aichi
AKSARTOVA, S.	The Impact of the End of the Cold War on Japan's	Hosei University  KAWASAKI, Nobuyuki	Nov. 1, 2005— Oct. 31, 2006	Kanto Tokyo

Region  
Prefecture

Hokkaido  
Hokkaido

Chubu  
Aichi

Kanto  
Tokyo

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FY 2007 Mathematical and Physical Sciences

Name(Nationality)	Research Subject	Host Institute Host Researcher	Period	Region Prefecture
AHMED, F.  BANGLADESH	Lead and Zinc Concentrations in Urban Lake Environments: A Case Study in the Asian Context	University of Tsukuba FUKUSHIMA, Takehiko Professor Graduate School of Life and Environmental Sciences	Nov. 1, 2007 ~ Oct. 31, 2009	Kanto Ibaraki
AMIRASLANI, A.  IRAN	Symbolic and numeric algorithms, and their applications to engineering problems	Ehime University KAI, Hiroshi Assistant Professor Department of Electronic Engineering and Computer Science	Sep. 15, 2007 ~ Sep. 14, 2008	Shikoku Ehime
ASTAFYEVA, E. I.  RUSSIA FEDERATION	Investigation of Ionospheric Disturbances of Seismic Origin Using the Japanese Dense GPS Array	Hokkaido University HEKI, Kosuke Professor Faculty of Science	Jun. 9, 2007 ~ Jun. 8, 2009	Hokkaido Hokkaido
BAI, L.  CHINA	Extensive and Intensive Seismological Study of Northeast China via NECESSArray	The University of Tokyo KAWAKATSU, Hitoshi Professor Earthquake Research Institute	May. 1, 2007 ~ Apr. 30, 2009	Kanto Tokyo
BAIOTTI, L.  ITALY	Numerical simulations of the merger of binary neutron stars with magnetic fields	The University of Tokyo SHIBATA, Masaru Associate Professor Graduate School of Arts and Sciences	Nov. 1, 2007 ~ Oct. 31, 2009	Kanto Tokyo
BOSE, S.  INDIA	Ultra High Temperature Lower Crust Process: A Case Study from the Eastern Ghats Belt, India	Yokohama National University ARIMA, Makoto Professor Graduate School of Environment and Information Sciences	May. 1, 2007 ~ Apr. 30, 2009	Kanto Kanagawa
BOUMAZA, H.  FRANCE	Development of Multi-Scale Analysis for Matrix-valued Operators. Application to models in Mathematical Physics and Mechanics	Keio University MAEDA, Yoshiaki Professor Faculty of Science and Technology	Sep. 2, 2007 ~ Sep. 1, 2009	Kanto Kanagawa
BREDENSTEIN, A.  GERMANY	Calculation of radiative corrections to $pp \rightarrow t\bar{t}bb+X$	High Energy Accelerator Research Organization KANEKO, Toshiaki Professor Computing Research Center	Nov. 30, 2007 ~ Sep. 29, 2009	Kanto Ibaraki

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Name(Nationality)	Research Subject	Host Institute Host Researcher	Period	Region Prefecture
CHONG, S. V.  MALAYSIA	To investigate the intercalation of foreign species into graphite layers and the change in electronic structures that might arise in the quasi two dimensional systems, such as superconductivity; and to extend these investigations to other layered systems including Hybrid Organic/Inorganic Oxides	University of Tsukuba KADOWAKI, Kazuo Professor Graduate School of Pure and Applied Sciences	Jul. 4, 2007 ~ Jul. 3, 2009	Kanto Ibaraki
DALSENO, J. P.  AUSTRALIA	Study of time-dependent CP violation in B meson decays at the Belle experiment	High Energy Accelerator Research Organization HASUMI, Masashi Associate Professor Institute of Particle and Nuclear Studies	Jun. 4, 2007 ~ Jun. 3, 2009	Kanto Ibaraki
DAS, A.  INDIA	Oxidation of Ce(III) by Fe Oxyhydroxide and Mn Oxide as a Basis of Paleoredox Study Using Ce Anomaly	Hiroshima University TAKAHASHI, Yoshio Associate Professor Graduate School of Science	Jun. 12, 2007 ~ Jun. 11, 2009	Chugoku Hiroshima
DASGUPTA, S.  INDIA	X-ray Spectral Study of Black Hole Sources	Japan Aerospace Exploration Agency EBISAWA, Ken Professor Institute of Space and Astronautical Science	Nov. 1, 2007 ~ Oct. 31, 2009	Kanto Kanagawa
DE NOOIJER, L.  NETHERLANDS	Biom mineralization in Miliolid Foraminifers Implication for Trace Metal Partitioning	Japan Agency for Marine-Earth Science and Technology KITAZATO, Hiroshi Director Institute for Reserach on Earth Evolution(IFREE)	Apr. 2, 2007 ~ Apr. 1, 2008	Kanto Kanagawa
DEACON, R. S.  UNITED KINGDOM	Control of the Competition of Kondo Correlation with Spin Ordered Transport	The University of Tokyo TARUCHA, Seigo Professor Department of Applied Physics, Graduate School of Engineering	Oct. 1, 2007 ~ Sep. 30, 2009	Kanto Tokyo
DOORNENBAL, P. C.  GERMANY	Collectivity of Exotic Nuclei by High Spin Gamma-ray Spectroscopy of Radioactive Isotope Beams	RIKEN SAKURAI, Hiroyoshi Chief Scientist Radioactive Isotope Physics Laboratory	Nov. 1, 2007 ~ Oct. 31, 2009	Kanto Saitama
GABANYI, K. E.  HUNGARY	Scientific Applications in the VLBI Space Observatory Programme-2(VSOP-2)	Japan Aerospace Exploration Agency MURATA, Yasuhiro Associate Professor The Institute of Space and Astronautical	Nov. 30, 2007 ~ Nov. 29, 2008	Kanto Kanagawa

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Name(Nationality)	Research Subject	Host Institute Host Researcher	Period	Region Prefecture
GUO, L.  CHINA	Study of Nuclear Structure of Exotic Nuclei near the r-process Path and Superheavy Nuclei	The University of Tokyo OTSUKA, Takaharu Professor Graduate School of Science	Sep. 1, 2007 ~ Aug. 31, 2009	Kanto Tokyo
HA, N.  KOREA (REP. OF KOREA)	Chiral Nonlinear Optic Effect in Bent-Core Liquid Crystals	Tokyo Institute of Technology TAKEZOE, Hideo Professor Graduate School of Science and Engineering	Apr. 1, 2007 ~ Mar. 31, 2009	Kanto Tokyo
IGWE, O.  NIGERIA	Landslide Risk Monitoring System Using Satellite InSAR and Ground-based Instruments	Kyoto University FUKUOKA, Hiroshi Associate Professor Disaster Prevention Research Institute	Apr. 1, 2007 ~ Mar. 31, 2009	Kinki Kyoto
ISKHAQ ISKANDAR  INDONESIA	Study on the Dynamics of Subsurface Circulations in the Tropical Indian Ocean	Japan Agency for Marine-Earth Science and Technology MIZUNO, Keisuke Program Director Institute of Observational Research for Global Change	Oct. 1, 2007 ~ Sep. 30, 2009	Kanto Kanagawa
JAEGER, B.  AUSTRIA	QCD and Electroweak Corrections to Vector-Boson Fusion Processes at the LHC	High Energy Accelerator Research Organization HAGIWARA, Kaoru Professor Institute of Particle and Nuclear Studies	Apr. 1, 2007 ~ Mar. 31, 2009	Kanto Ibaraki
JAGADAMBAL, R. V.  INDIA	A Comprehensive Study on an Unusual Ultramafic Complex Formed from Carbonatite Magma	Kanazawa University ARAI, Shoji Professor Graduate School of Natural Science and Technology	Nov. 15, 2007 ~ Nov. 14, 2009	Chubu Ishikawa
JANIK, M.  POLAND	Evaluation of Radon for the Safety Standard in Environment	National Institute of Radiological Sciences TOKONAMI, Shinji Group Leader Environmental Radiation Effects Research Group	Aug. 10, 2007 ~ Aug. 9, 2009	Kanto Chiba
JAROSCHEK, C. H.  GERMANY	High Energy Particle Acceleration and Radiation Processes in Relativistic Plasma Sheet	The University of Tokyo HOSHINO, Masahiro Professor Graduate School of Science	Jun. 5, 2007 ~ Jun. 4, 2009	Kanto Tokyo

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Name(Nationality)	Research Subject	Host Institute Host Researcher	Period	Region Prefecture
JIANG, L.  CHINA	Development of THz Astronomical Observations with the HEB Mixer Using Niobium Titanium Nitride	The University of Tokyo YAMAMOTO, Satoshi Professor Graduate School of Science	Sep. 1, 2007 ~ Aug. 31, 2009	Kanto Tokyo
JIMENEZ-ESPEJO, F. J.  SPAIN	Integrated Multidisciplinary Approach for Abrupt Climate Changes in the Early Stage of Global Warming	Japan Agency for Marine-Earth Science and Technology SAKAMOTO, Tatsuhiko Group Leader Institute for Research on Earth Evolution (IFREE)	Nov. 28, 2007 ~ Nov. 27, 2009	Kanto Kanagawa
KALMAN, T.  HUNGARY	Contact Structures and Foliations on 3-dimensional manifolds	The University of Tokyo TSUBOI, Takashi Professor Graduate School of Mathematical Sciences	Sep. 1, 2007 ~ Aug. 31, 2009	Kanto Tokyo
KAMALI-MOGHADDAM, S.  SWEDEN	The interface quality and degree of oxidation which have the crucial effects on tunneling magnetic resistance (TMR) in Magnetic Tunnel Junctions(MTJs) are going to be investigated by means of Synchrotron Mossbauer Spectroscopy and other techniques. MTJs are the basic devices in Magnetoresistive random access memory (MRAM)	Japan Synchrotron Radiation Research Institute YODA, Yoshitaka Head of the Division Research and Utilization Division Spring 8	May. 30, 2007 ~ May. 29, 2009	Kinki Hyogo
KHATRI, P.  NEPAL	Aerosol and Cloud Effects to the Global Radiation Budget Study Using the SKYNET Data	Chiba University TAKAMURA, Tamio Professor Center for Environmental Remote Sensing	Oct. 1, 2007 ~ Sep. 30, 2009	Kanto Chiba
KISS, A.  HUNGARY	Strongly correlated electron systems, multipolar orderings in f-electron systems, higher order multipoles, rare earth filled skutterudites	Tohoku University KURAMOTO, Yoshio Professor Graduate School of Science	Nov. 30, 2007 ~ Nov. 29, 2009	Tohoku Miyagi
KONOPLYA, R.  UKRAINE	Classical and Quantum Aspects of Kaluza-Klein Black Holes	Kyoto University SODA, Jiro Associate Professor Graduate School of Science	Oct. 1, 2007 ~ Sep. 30, 2009	Kinki Kyoto
LEUPOLD, P.  GERMANY	Idempotency closure of languages	Kyoto Sangyo University ITOH, Masami Professor Faculty of Science	Oct. 1, 2007 ~ Sep. 30, 2009	Kinki Kyoto

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LIM, J.  KOREA (REP. OF KOREA)	Variability of Westerly's Pathway and Intensity Associating with Climatic Changes in East Asia	Nagoya University KITAGAWA, Hiroyuki Associate Professor Graduate School of Environmental Studies	Sep. 7, 2007 ~ Sep. 6, 2009	Chubu Aichi
LYKAWKA, P. S.  BRAZIL	Studies for Spatial Structure and Dynamical Evolution of Trans-Neptunian Objects	Kobe University MUKAI, Tadashi Professor Graduate School of Science	Apr. 1, 2007 ~ Mar. 31, 2009	Kinki Hyogo
MITCHELL, T. M.  UNITED KINGDOM	Permeability and Elastic-velocity Structures of Fault Zones; Implications for Fluid-flow Analyses	Hiroshima University SHIMAMOTO, Toshihiko Professor Graduate School of Science	Sep. 29, 2007 ~ Sep. 28, 2009	Chugoku Hiroshima
MOLLEE, T. R.  AUSTRALIA	Mathematical theory of nonlinear-non-equilibrium Reaction-Diffusion systems	Meiji University MIMURA, Masayasu Professor Faculty of Science and Tecnology	Nov. 19, 2007 ~ Nov. 18, 2009	Kanto Kanagawa
MORARD, G.  FRANCE	Melting Relations of Iron-light Elements Systems at Ultra-high Pressures and Temperatures	Okayama University KATSURA, Tomoo Associate Professor Institute for Study of the Earth's Interior	Sep. 15, 2007 ~ Aug. 31, 2009	Chugoku Tottori
PETIT, J. M.  FRANCE	Quantum Topology and Khvanov Homology	Tokyo Institute of Technology MURAKAMI, Hitoshi Associate Professor Graduate School of Science and Engineering	Nov. 1, 2007 ~ Oct. 31, 2009	Kanto Tokyo
PICHOT, M. Y.  FRANCE	Noncommutative geometry, Bruhat-Tits buildings and measured equivalence relations	The University of Tokyo KAWAHIGASHI, Yasuyuki Professor Department of Mathematical Sciences	Sep. 25, 2007 ~ Sep. 24, 2009	Kanto Tokyo
PINANSKY, S. B.  U.S.A.	Studies on Gauge/Gravity Correspondence and its Physical Implications	The University of Tokyo KAZAMA, Yoichi Professor Graduate School of Arts and Sciences	Oct. 1, 2007 ~ Sep. 30, 2009	Kanto Tokyo

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Name(Nationality)	Research Subject	Host Institute Host Researcher	Period	Region Prefecture
POPOVICI, D.  ROMANIA	Transcendental Techniques in Complex Geometry	Sophia University TSUJI, Hajime Professor Department of Mathematics, Faculty of Science and Technology	Jul. 12, 2007 ~ Jul. 11, 2008	Kanto Tokyo
PRAKASH KUMAR  INDIA	Imaging Lithosphere-asthenosphere Boundary Beneath Ocean by Means of P- and S- Receiver Functions	The University of Tokyo KAWAKATSU, Hitoshi Professor Earthquake Research Institute	Nov. 11, 2007 ~ Nov. 10, 2009	Kanto Tokyo
QIAN, T.  CHINA	Ultrahigh-resolution Photoemission Study of Colossal Magnetoresistive Manganites	Tohoku University TAKAHASHI, Takashi Professor Graduate School of Science	Aug. 10, 2007 ~ Aug. 9, 2009	Tohoku Miyagi
RAHIMI DARABAD, R.  IRAN	Generation of Entanglement and Suppression of Decoherence for Molecular Spin Quantum Computing	Kinki University NAKAHARA, Mikio Professor School of Science and Engineering	Nov. 12, 2007 ~ Nov. 11, 2009	Kinki Osaka
RAHMAN, M. M.  BANGLADESH	Application of ALOS PALSAR Data for Tropical Forest Biomass Estimation and Mapping	Chiba University SRI SUMANTYO, Josaphat Tetuko Associate Professor Center for Environmental Remote Sensing	Jun. 18, 2007 ~ Jun. 17, 2009	Kanto Chiba
RASMUSSEN, C. J.  U.S.A.	Arithmetic and Geometry of Covers of Algebraic Curves	Kyoto University TAMAGAWA, Akio Professor Research Institute for Mathematical Sciences	Jul. 23, 2007 ~ Aug. 6, 2008	Kinki Kyoto
REESE, E. D.  U.S.A.	Cosmology with Galaxy Clusters: Constraints from Sunyaev-Zel'dovich Effect, X-ray, and Lensing Data	The University of Tokyo SUTO, Yasushi Professor Graduate School of Science	Apr. 23, 2007 ~ Apr. 22, 2009	Kanto Tokyo
ROMANO, A. E.  ITALY	Theoretical cosmology and astrophysics: topics in physics of the early universe and its observational implications, and structure formation	Kyoto University SASAKI, Misao Professor Yukawa Institute for Theoretical Physics	Sep. 15, 2007 ~ Sep. 14, 2009	Kinki Kyoto

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SIMULA, T. P.  FINLAND	Theoretical Studies on Bose and Fermi Condensates in Neutral Cold Atom Gases	Okayama University MACHIDA, Kazushige Professor Graduate School of Natural Science and Technology	Sep. 29, 2007 ~ Sep. 28, 2009	Chugoku Okayama
SISWANTO, E.  INDONESIA	Effect of Typhoon in the Western Subtropical Pacific on Ocean Carbon Cycle, and its Temporal Change	Nagoya University SAINO, Toshiro Professor Hydrospheric Atmospheric Research Center	Oct. 1, 2007 ~ Sep. 30, 2009	Chubu Aichi
SPENGLER, D.  GERMANY	Constraints from Organic Garnet Peridotites for the Formation and Evolution of Subcontinental Lithosphere in China	Kyoto University OBATA, Masaaki Professor Department of Geology and Mineralogy, Graduate School of Science	Apr. 24, 2007 ~ Apr. 23, 2009	Kinki Kyoto
SUN, H.-T.  CHINA	Rare-earth and Transition Metal Ions Doped Photonic Materials Sensitized with Si Nanocrystals	Kobe University FUJII, Minoru Associate Professor Graduate School of Engineering	Oct. 1, 2007 ~ Sep. 30, 2009	Kinki Hyogo
TANG, J.  CHINA	Properties of Fullerene Solids with Elements in Nano Space: Confined Molecules and Atomic Elements	Tohoku University TANIGAKI, Katsumi Professor Graduate School of Science	Apr. 1, 2007 ~ Mar. 31, 2009	Tohoku Miyagi
VALSALA, V. K.  INDIA	A Robust Estimation of the Ocean-atmosphere Exchanges of Carbon Dioxide (CO <sub>2</sub> )	National Institute for Environmental Studies MAKSYUTOV, Shamil Special Senior Researcher Center for Global Environmental Research	Oct. 1, 2007 ~ Sep. 30, 2009	Kanto Ibaraki
VAN KOERT, O. F.  NETHERLANDS	Computational tools for contact homology and open books	Hokkaido University ONO, Kaoru Professor Graduate School of Science	Oct. 15, 2007 ~ Oct. 14, 2009	Hokkaido Hokkaido
WANG, Z.-X.  CHINA	Theory and Simulation of Interaction among Different Scale Fluctuations Including MHD Mode	Kyoto University KISHIMOTO, Yasuaki Professor Department of Fundamental Energy, Graduate School of Energy Science	Sep. 15, 2007 ~ Sep. 14, 2009	Kinki Kyoto



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Name(Nationality)	Research Subject	Host Institute Host Researcher	Period	Region Prefecture
WEI, G.  CHINA	Geometry and Topology of Submanifolds	Saga University CHENG, Qing-Ming Professor Faculty of Science and Engineering	Oct. 1, 2007 ~ Sep. 30, 2009	Kyushu Saga
WILLIAMS, G. D.  AUSTRALIA	Dwonslope mixing of Antarctic Bottom Water	Hokkaido University AOKI, Shigeru Associate Professor Institute for Low Temperature Science	Nov. 19, 2007 ~ Nov. 18, 2009	Hokkaido Hokkaido
ZHANG, Z.  CHINA	Quantum Chromodynamics at finite temperature and density	Kyoto University KUNIHICO, Teiji Professor Yukawa Insitute for Theoretical Physics	Nov. 1, 2007 ~ Oct. 31, 2009	Kinki Kyoto
ZHANG, Y.-F.  CHINA	Metal-organic Supramolecule Recognition and Their Novel Physical Properties	Tohoku University KOMEDA, Tadahiro Professor Institute of Multidisciplinary Research for Advanced Materials	Oct. 1, 2007 ~ Sep. 30, 2009	Tohoku Miyagi
ZHAO, J.  CHINA	One-dimensional Quantum Systems Studied by the DMRG Method	The University of Tokyo UEDA, Kazuo Professor Institute for Solid State Physics	May. 10, 2007 ~ May. 9, 2009	Kanto Chiba

# Regions

Hokkaido

Tohoku

Chubu

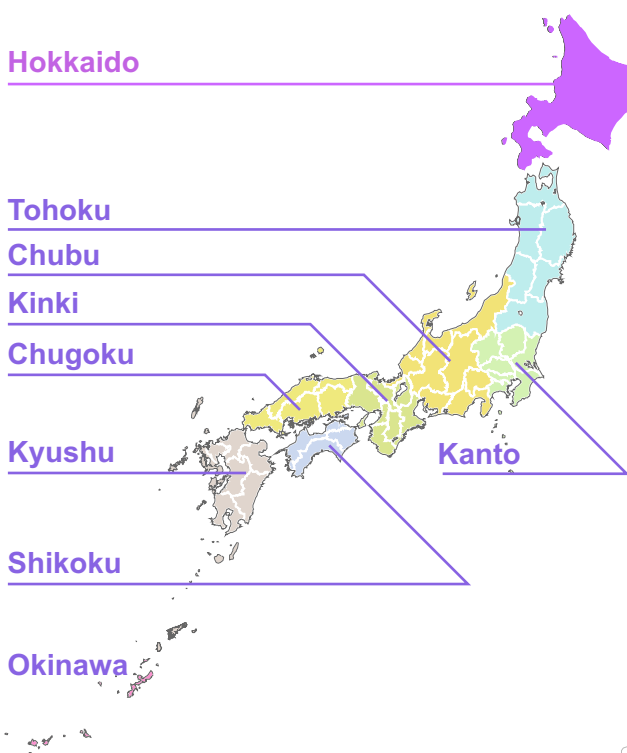
Kinki

Chugoku

Kyushu

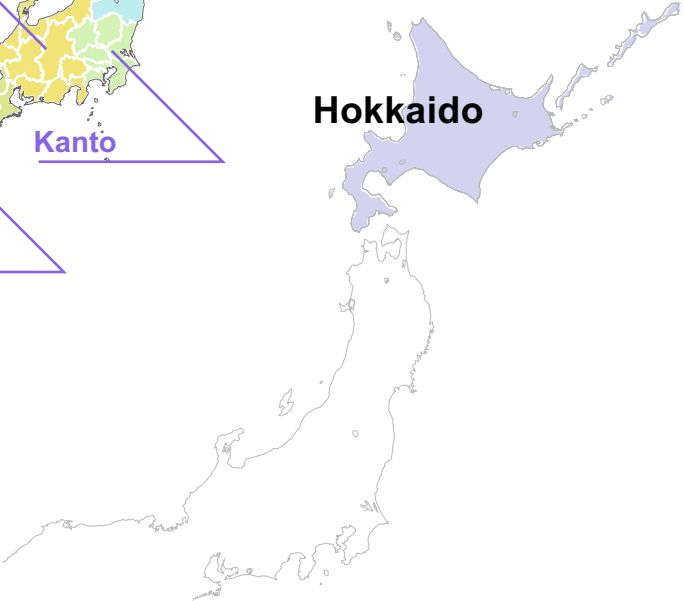
Shikoku

Okinawa



# Prefectures

Hokkaido



# Regions

Hokkaido

Tohoku

Chubu

Kinki

Chugoku

Kyushu

Shikoku

Okinawa

Kanto

# Prefectures

Aomori

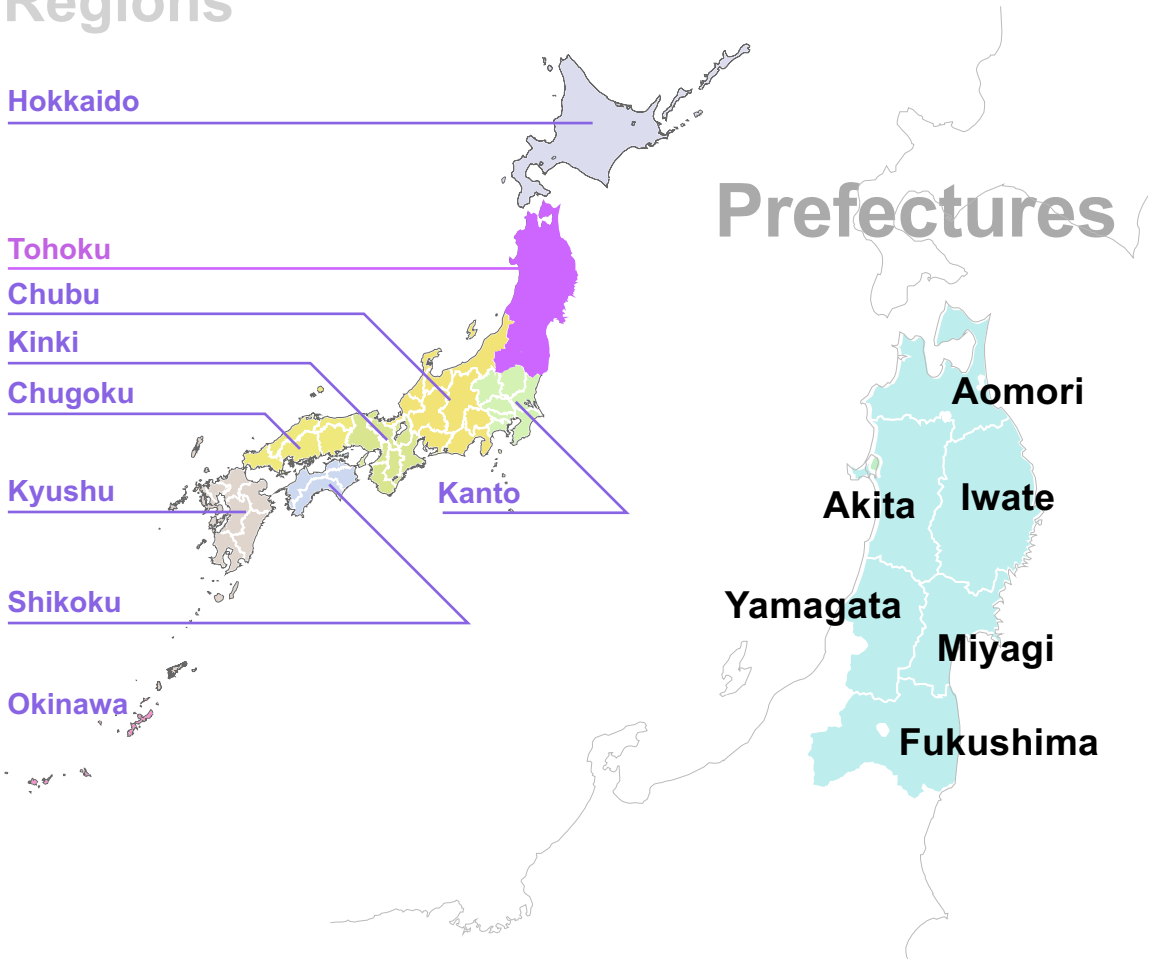
Akita

Iwate

Yamagata

Miyagi

Fukushima



# Regions

Hokkaido

Tohoku

Chubu

Kinki

Chugoku

Kyushu

Shikoku

Okinawa

Kanto

# Prefectures

Gunma

Tochigi

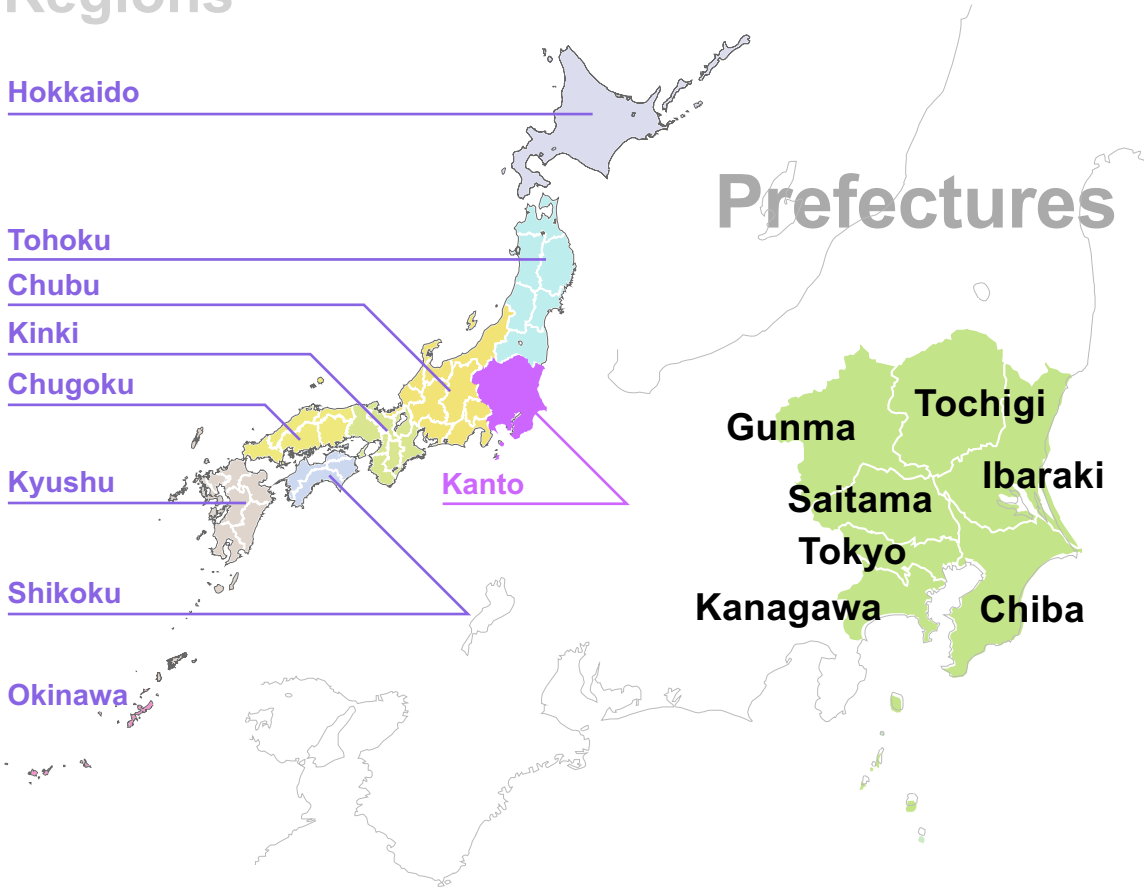
Ibaraki

Saitama

Tokyo

Kanagawa

Chiba



# Regions

Hokkaido

Tohoku

Chubu

Kinki

Chugoku

Kyushu

Shikoku

Okinawa

Kanto

# Prefectures

Toyama

Niigata

Ishikawa

Nagano

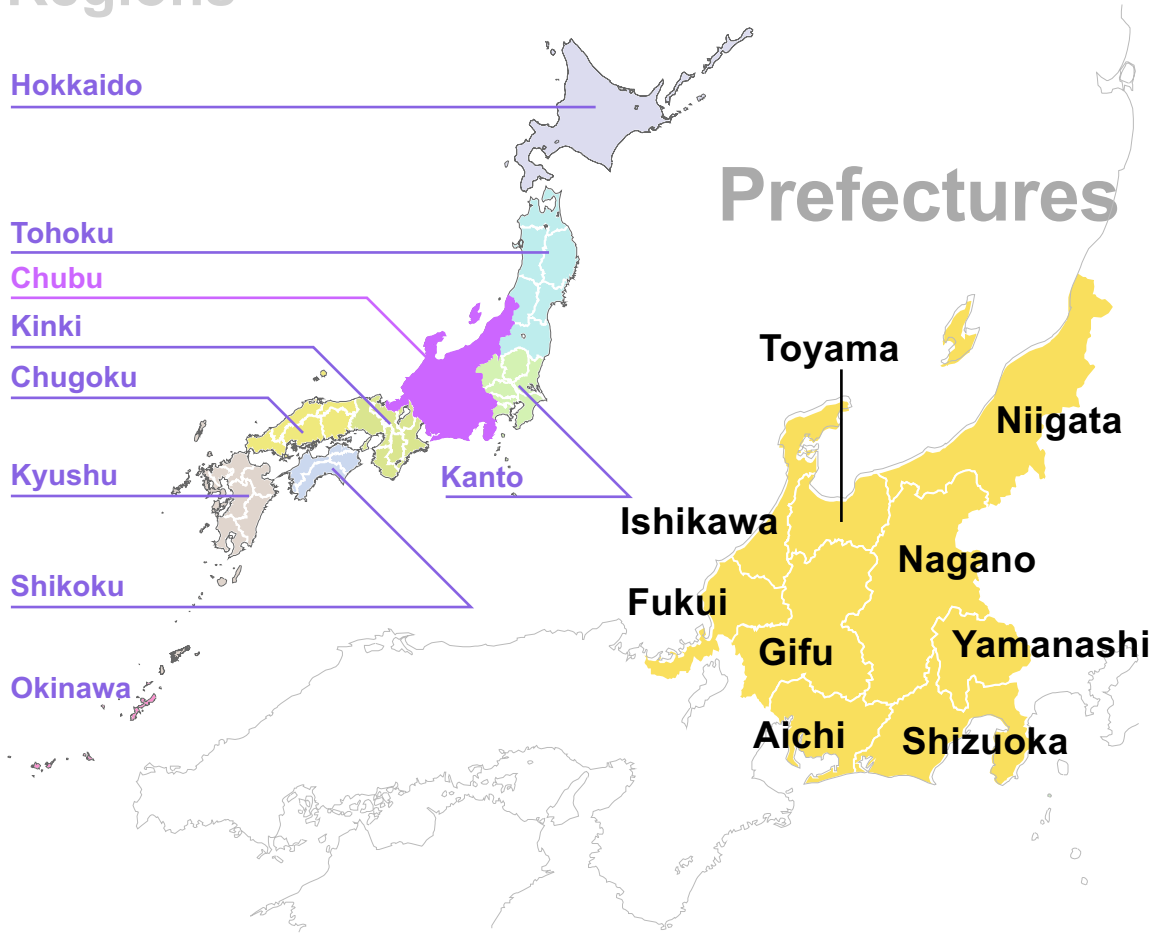
Fukui

Yamanashi

Gifu

Aichi

Shizuoka



# Regions

Hokkaido

Tohoku

Chubu

Kinki

Chugoku

Kyushu

Shikoku

Okinawa

Kanto

# Prefectures

Kyoto

Shiga

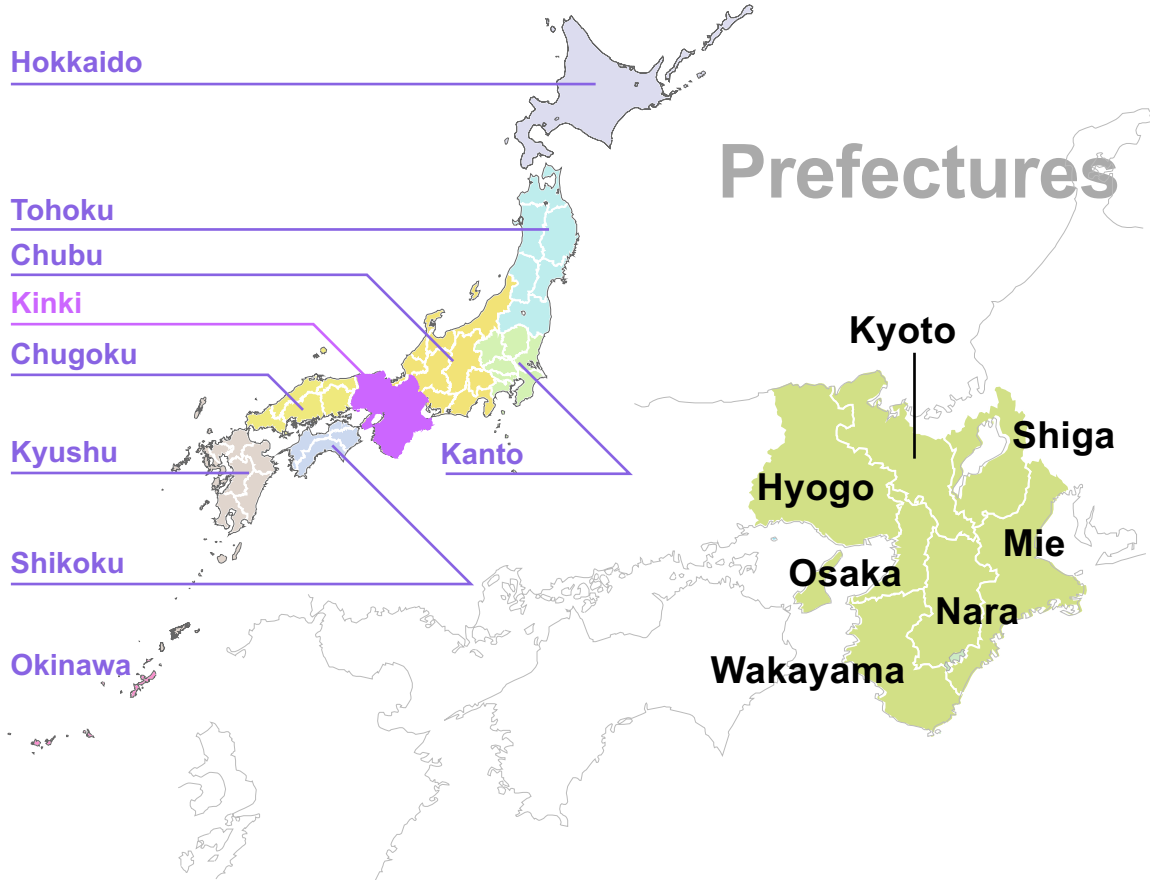
Hyogo

Mie

Osaka

Nara

Wakayama



# Regions

Hokkaido

Tohoku

Chubu

Kinki

Chugoku

Kyushu

Shikoku

Okinawa

Kanto

# Prefectures

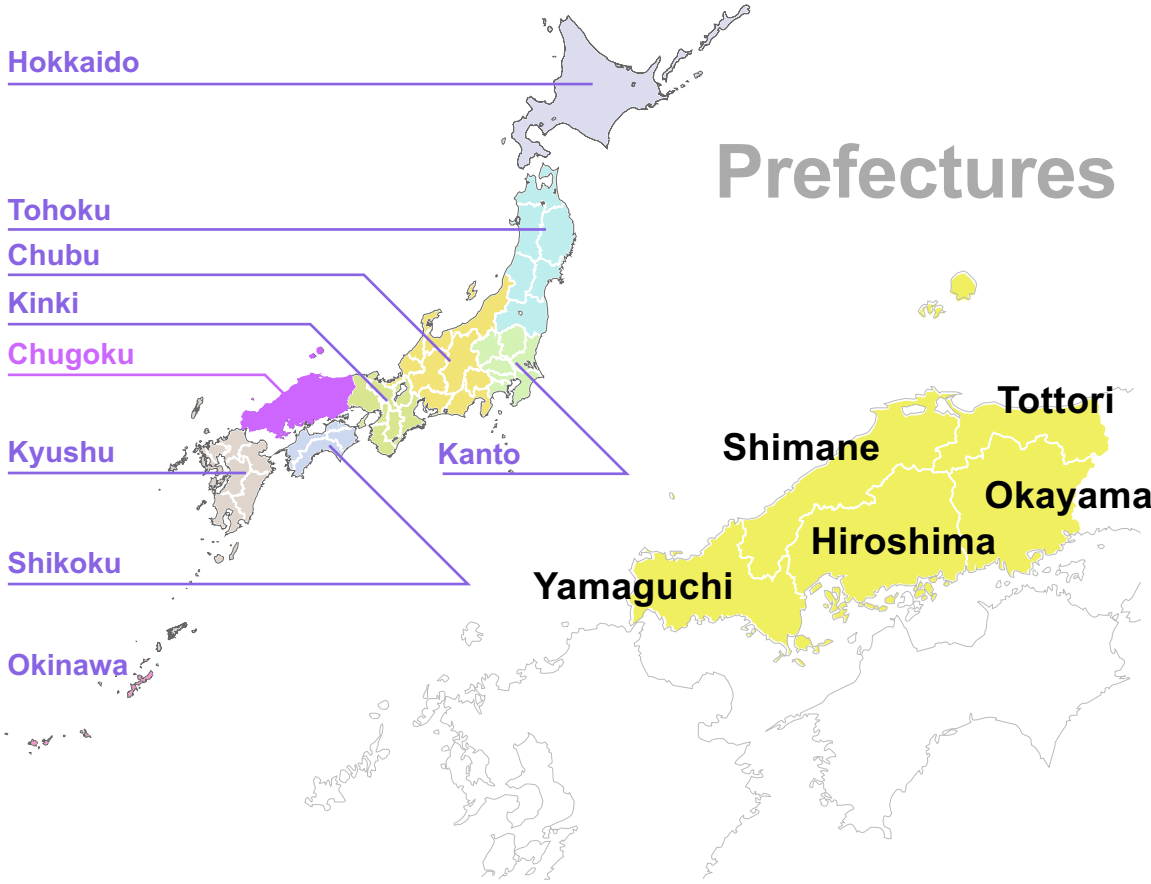
Shimane

Tottori

Okayama

Hiroshima

Yamaguchi



# Regions

Hokkaido

Tohoku

Chubu

Kinki

Chugoku

Kyushu

Shikoku

Okinawa

Kanto

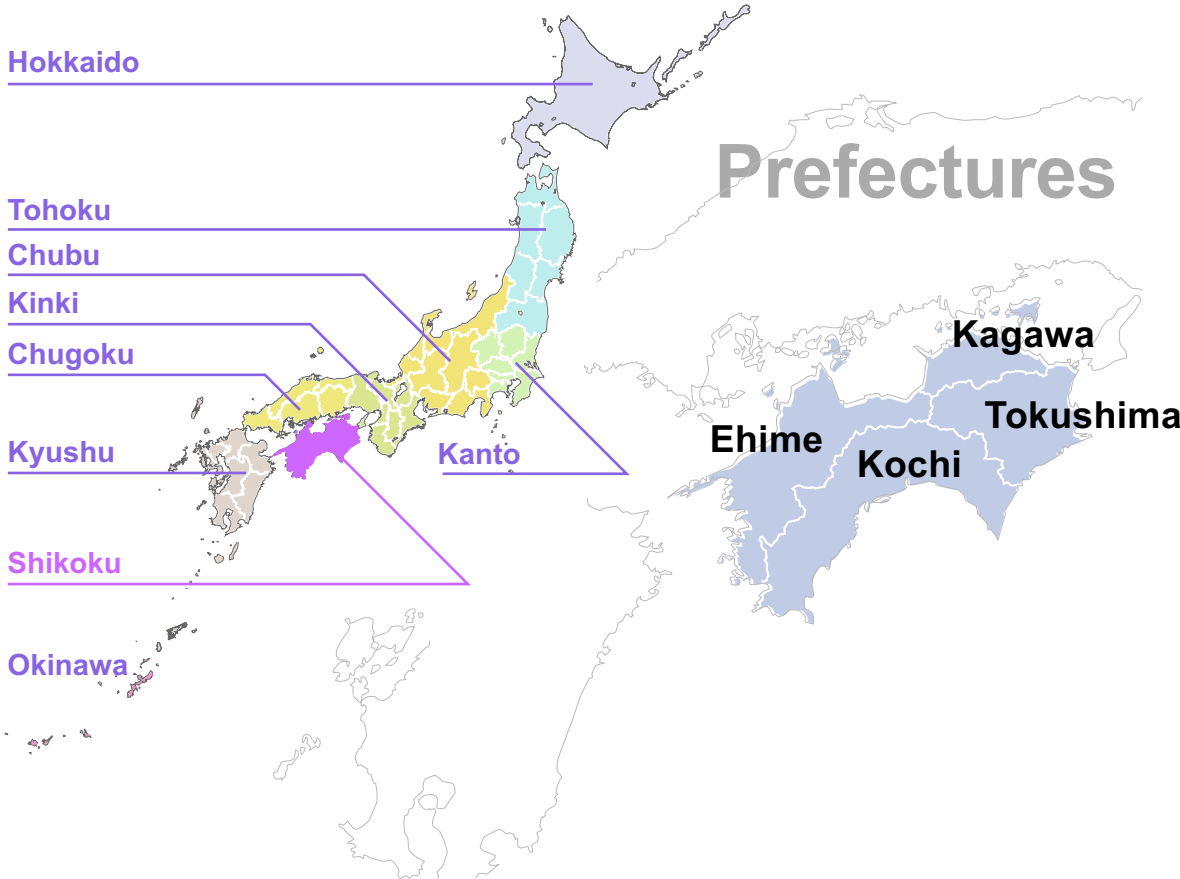
# Prefectures

Kagawa

Ehime

Kochi

Tokushima





# Regions

Hokkaido

Tohoku

Chubu

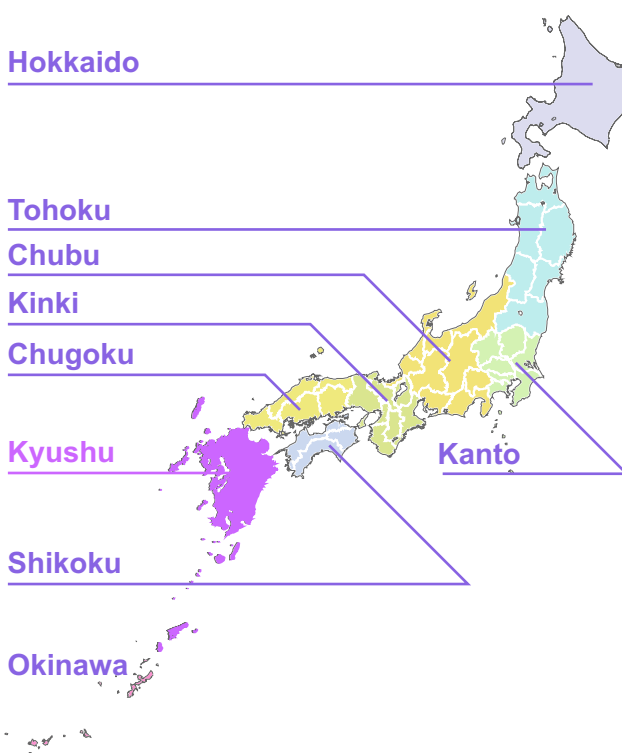
Kinki

Chugoku

Kyushu

Shikoku

Okinawa



# Prefectures

Saga

Fukuoka

Oita

Nagasaki

Kumamoto

Miyazaki

Kagoshima



# Regions

Hokkaido

Tohoku

Chubu

Kinki

Chugoku

Kyushu

Shikoku

Okinawa

# Prefectures

Okinawa

