



Alumni Associations

JSPS supports 20 researcher communities (alumni associations) established by former JSPS fellows in countries around the world, allowing them to maintain and expand their networks among themselves and with Japanese colleagues after completing their tenures and returning to their countries.

The BRIDGE Fellowship Program provides members of officially established JSPS alumni associations with opportunities to revisit Japan.

URL https://www.jsps.go.jp/english/e-plaza/20_alumni.html TEL +81-3-3263-1872 E-mail alumni@jspm.go.jp

JSPS Overseas Offices

	JSPS Washington Office	https://jspmusa.org 2001 L Street N.W., Suite 1050, Washington D.C. 20036, USA
	JSPS San Francisco Office	http://jspmusa-sf.org 2001 Addison Street, Suite 260, Berkeley, CA 94704 USA
	JSPS Bonn Office	https://www.jsps-bonn.de Wissenschaftszentrum, Ahrstr. 58, 53175, Bonn, GERMANY
	JSPS London Office	http://www.jsps.org 14 Stephenson Way, London, NW1 2HD, UK
	JSPS Stockholm Office	https://www.jsps-sto.com Retzius Väg 3, 171 65 Solna, SWEDEN
	JSPS Strasbourg Office	https://jspm.unistra.fr Maison Universitaire France-Japon 42a, avenue de la Forêt-Noire, 67000 Strasbourg, FRANCE
	JSPS Bangkok Office	https://jspm-th.org No.1016/3, 10th Fl., Serm-Mit Tower, 159 Sukhumvit Soi 21, Bangkok 10110, THAILAND
	JSPS Beijing Office	https://www.jsps.org.cn A404, China Foreign Language Mansion, No.89 Xisanhuan Beilu, Haidian District, Beijing 100089, P.R. CHINA
	JSPS Cairo Research Station	https://jspmcairo.com/ 9 Al-Kamel Muhammad Street, Flat No. 4, Zamalek, Cairo, EGYPT
	JSPS Nairobi Research Station	https://www.jspsnairobi.org House Number 3, Windy Ridge Heights on L. R. No. 195/31 and 28, Off Dagoretti Road, 3D Lane, Karen, Nairobi, KENYA
	JSPS Science Advisor in São Paulo	https://www.jsps.go.jp/english/saopaulo/index.html Dr. Masato Ninomiya

JSPS INTERNATIONAL FELLOWSHIPS for RESEARCH in JAPAN 2021



JSPS

JAPAN SOCIETY FOR THE PROMOTION OF SCIENCE

5-3-1 Kojimachi, Chiyoda-ku Tokyo 102-0083

<https://www.jsps.go.jp/english/index.html>





JSPS INTERNATIONAL FELLOWSHIPS for RESEARCH in JAPAN 2021

The Japan Society for the Promotion of Science (JSPS) is an independent administrative institution that performs the following main functions:

- Creating Diverse World-Level Knowledge
- Fostering the Next Generation of Researchers to Pioneer Knowledge
- Harnessing University Strengths to Enhance Education and Research Capability
- Building a Robust International Research Base
- Building a Comprehensive Academic Information Analysis Base

JSPS Fellows Plaza

JSPS Fellows Plaza supports JSPS fellows during their research tenure in Japan, and after they have returned to their country through the alumni associations.

<https://www.jsps.go.jp/english/e-plaza/index.html>

☎ +81-3-3263-3444 ✉ fellowsplaza@jps.go.jp

JSPS Researchers Network (JSPS-Net)

JSPS has launched the JSPS-Net, a social networking service, to support the formation of networks and research communities for both Japanese and international researchers, in order to contribute to strengthening and expanding human networks derived from long years of research exchange between Japan and other countries.

<https://www.jsps-net.jsps.go.jp/>

☎ +81-3-3263-1872 ✉ jps-net@jps.go.jp



JSPS carries out programs that provide overseas researchers who have an excellent record of research achievements with an opportunity to conduct collaborative research, discussions, and opinion exchanges with researchers in Japan.

Science Dialogue

Science Dialogue offers JSPS fellows the unique opportunities to volunteer to give lectures in English or their research work at Japanese high schools in the vicinity of their host institutes.

<https://www.jsps.go.jp/english/e-plaza/e-sdialogue/index.html>

☎ +81-3-3263-1730 ✉ sdialogue@jps.go.jp

Features

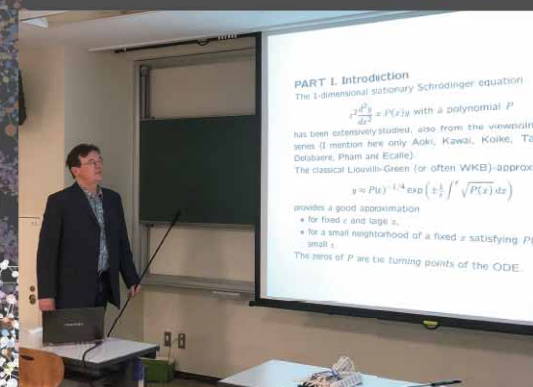
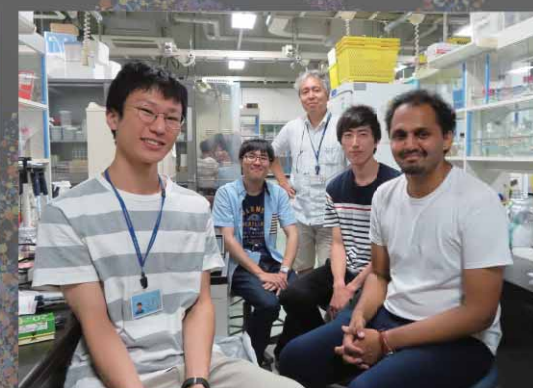
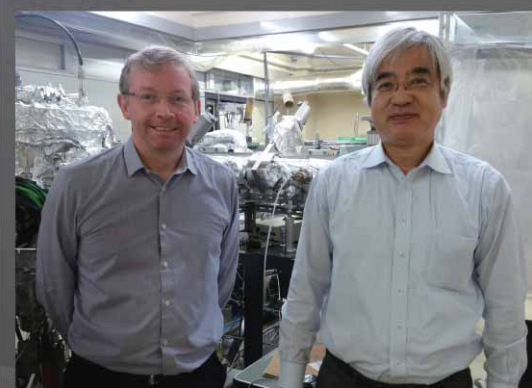
- We value the pursuit of knowledge above all else. The program is open to all, regardless of nationality or academic field.
- Tailored to a full spectrum of researchers from early-career researchers to eminent scientists
- Flexible durations ranging from short to long terms

RONPAKU (Dissertation Ph.D.) Program

The RONPAKU (Dissertation Ph.D.) Program supports promising researchers in countries of Asia and Africa or other specified countries who wish to obtain a Ph.D. degree from a Japanese university through the submission of a dissertation without matriculating a doctoral course.

<https://www.jsps.go.jp/english/e-ronpaku/index.html>


☎ +81-3-3263-2368 ✉ ronpaku@jps.gc.jp



PART I. Introduction
The 1-dimensional stationary Schrödinger equation
$$-\frac{\hbar^2}{2m} \frac{d^2 \psi}{dx^2} = P(x) \psi$$
 with a polynomial P
has been extensively studied, also from the viewpoint of series (I mention here only Asai, Kawai, Koike, Takahashi, Yamamoto and others).
The classical Lax-Phillips (or often WKB) approximation
$$\psi \sim P(x)^{-1/4} \exp\left(\pm \int^x \sqrt{P(x)} dx\right)$$

provides a good approximation
• for fixed x and large \hbar ,
• for a small neighborhood of a fixed x satisfying $P(x) \neq 0$.
The zeros of P are the turning points of the ODE.

JSPS International Fellowships for Research in Japan

	Enrollment in doctoral course			Acquisition of doctoral degree	Mid-career / Professor			
	JSPS Postdoctoral Fellowships for Research in Japan					JSPS Invitational Fellowships for Research in Japan		
	Summer Program		Short-term	Standard	Long-term	Short-term		
Purpose	To provide opportunities for pre- / post-doctoral researchers from the US, Canada and Europe to receive an orientation on Japanese culture and research systems and to pursue research under the guidance of host researchers in universities and other Japanese institutions.		To provide opportunities for pre- / post-doctoral researchers from the US, Canada and Europe to conduct, under the guidance of their hosts, cooperative research with leading research groups in universities and other Japanese institutions.	To provide opportunities for excellent postdoctoral researchers from other countries to conduct, under the guidance of their hosts, cooperative research with leading research groups in universities and other Japanese institutions.	To invite overseas researchers with excellent records of research achievements to collaborate with Japanese colleagues in carrying out research through long-term visits.	To invite overseas researchers with excellent records of research achievements for short-term visits to Japan and provide them opportunities for discussions, opinion exchanges, lectures and other activities.		
Duration of Fellowship	2 months in summer		1 to 12 months	12 to 24 months	2 to 10 months	14 to 60 days		
Approximate Number of Fellowships Awarded	100		140	340	60	170		
Fellow Eligibility	<div><div></div> Be a citizen or permanent resident of the UK, France, Germany, Canada, Sweden and the US (Others with equivalent status may apply if approved by the nominating authority in one of the above countries.).</div> <div><div></div> Be enrolled in a university graduate program, or hold a doctorate degree received within the past 6 years.</div>		<div><div></div> Be a citizen or permanent resident of the US, Canada, European Union countries, the UK, Switzerland, Norway or Russia.</div> <div><div></div> Hold a doctorate degree received within the past 6 years, or be enrolled in a doctoral course and scheduled to receive a Ph.D. within 2 years.</div>	<div><div></div> Be a citizen of a country that has diplomatic relations with Japan (JSPS treats Taiwanese and Palestinian researchers in this manner).</div> <div><div></div> Hold a doctorate degree received within the past 6 years, or be scheduled to receive a doctorate degree before the Fellowship goes into effect.</div>	<div><div></div> Be a citizen or a permanent resident of a country that has diplomatic relations with Japan (JSPS treats Taiwanese and Palestinian researchers in this manner). To be eligible, researchers of Japanese nationality residing overseas must have lived in the other country for at least 10 years and been actively engaged in research in that country throughout the period.</div> <div><div></div> Be a researcher in a position equivalent to a university professor, associate professor or assistant professor in Japan, or received their doctorate degree 6 years or more prior.</div>	<div><div></div> Be a citizen or a permanent resident of a country that has diplomatic relations with Japan (JSPS treats Taiwanese and Palestinian researchers in this manner). To be eligible, researchers of Japanese nationality residing overseas must have lived in the other country for at least 10 years and been actively engaged in research in that country throughout the period.</div> <div><div></div> Be a researcher in a position equivalent to a university professor, associate professor or assistant professor in Japan, or received their doctorate degree 6 years or more prior.</div>		
Host Eligibility	Be a researcher who is employed full-time at a university or research institution.					Be a researcher who is employed full-time at a university or research institution.		
Terms of Award	<div><div></div> Round-trip air ticket</div> <div><div></div> Overseas travel insurance</div> <div><div></div> Maintenance allowance of ¥534,000</div> <div><div></div> Research support allowance of ¥158,500</div>		<div><div></div> Round-trip air ticket</div> <div><div></div> Overseas travel insurance</div> <div><div></div> Monthly maintenance allowance</div> <div><div></div> Ph.D. holders: ¥362,000</div> <div><div></div> Non-Ph.D. holders: ¥200,000</div> <div><div></div> Settling-in allowance of ¥200,000 (For 3 or more months of tenure)</div> <div><div></div> Research support allowance of up to ¥70,000 × the number of months of tenure</div>	<div><div></div> Round-trip air ticket</div> <div><div></div> Overseas travel insurance</div> <div><div></div> Monthly maintenance allowance of ¥362,000</div> <div><div></div> Settling-in allowance of ¥200,000</div> <div><div></div> Grant-in-Aid for JSPS Research Fellows (KAKEN-II)</div>	<div><div></div> Round-trip air ticket</div> <div><div></div> Overseas travel insurance</div> <div><div></div> Monthly maintenance allowance of ¥387,600</div> <div><div></div> Research support allowance of up to ¥150,000</div>	<div><div></div> Round-trip air ticket</div> <div><div></div> Overseas travel insurance</div> <div><div></div> Daily maintenance allowance of ¥18,000</div> <div><div></div> Research support allowance of up to ¥150,000</div>		
How to Apply	<div><div></div> Nomination through an overseas nominating authority (A call for proposals will not be issued to UK (in the FY 2021 program) or US researchers.)</div>		<div><div></div> Application made by a host researcher through his/her institution in Japan</div> <div><div></div> Nomination through an overseas nominating authority (For the Short-term program, eligible countries are: US, UK, France, Germany and Sweden).</div>		<div><div></div> Application made by a host researcher through his/her institution in Japan</div>			
URL	https://www.jsps.go.jp/english/e-fellow/index.html					https://www.jsps.go.jp/english/e-inv/index.html		

Exclusively for regular members of JSPS alumni associations

BRIDGE Fellowship Program

To provide opportunities for alumni members who have conducted research activities in Japan under JSPS programs to sustain, develop and/or strengthen research collaborations with Japanese colleagues.

14 to 30 days

50

Be a researcher who has experienced research in Japan under a JSPS program and who is currently a regular member of an officially recognized JSPS alumni association

Be employed as an active researcher working at a university or a research institute.

Host researcher must agree to accept the Fellow.

Be a researcher who is employed full-time at a university or research institution.

Round-trip air ticket

Overseas travel insurance

Daily maintenance allowance of ¥13,000

Research support allowance of up to ¥100,000

Nomination through the applicant's JSPS alumni association.

<https://www.jsps.go.jp/english/e-plaza/bridge/index.html>

BRIDGE Fellowship Program

TEL +81-3-3263-1869

E-mail bridge@jsps.go.jp