

# Guidelines for Application

## **Graduate School of Mathematics, Kyushu University (Master's Course, Doctoral Course)**

### **International Programs in Mathematics**

Special Screening for Admission  
in October, 2018

Graduate School of Mathematics, Kyushu University

Motooka 744, Nishi-ku, Fukuoka 819-0395, Japan

TEL: +81-92-802-4402

FAX: +81-92-802-4405



**International Master's Program in Mathematics**

**International Doctoral Program in Mathematics**

**These two programs offer a wide range of lectures, with topics ranging from pure mathematics such as algebra and geometry to applied mathematics such as probability, statistics, and computational mathematics.**

**For details, please visit the following websites:**

**Graduate School of Mathematics**

<http://www.math.kyushu-u.ac.jp/eng/>

<http://www.math.kyushu-u.ac.jp/eng/entryexams/view/1>

**Kyushu University**

<http://www.isc.kyushu-u.ac.jp/g30/index.html>

<http://www.isc.kyushu-u.ac.jp/g30/programs-g.html>

**For information on financial aid, please visit the following websites:**

<http://www.isc.kyushu-u.ac.jp/intlweb/en/admission>

## Master's Program

Those applying for the 2018 International Master's Program in Mathematics, the Graduate School of Mathematics at Kyushu University, should follow the following procedures. The course will commence on October 1, 2018. All lectures and guidance will be given in English.

If you are interested in applying, please make contact with a professor or an associate professor of our graduate school whose area of expertise most closely matches your research topic, prior to the application. The list of our faculty can be found on pages 14-15 and on our web page (<http://www.math.kyushu-u.ac.jp/eng/teachers/index>).

### 1. Department and number of students to be admitted

Department	Number of students
Mathematics	5

This program offers guidance on research in Mathematics and Mathematical Science and on writing a Master's Thesis. Those who complete this program will be awarded the Master's Degree in Mathematics (Master of Mathematics).

### 2. Qualification for application

Applicants must be citizens of countries other than Japan with Status of Residence of "Student" (including those who are expected to acquire this status after being admitted), and satisfy one of the following requirements:

- (1) Those who have completed or are expected to complete 16 years of formal education in countries other than Japan by September 30, 2018.
- (2) Those who have been conferred or are expected to be conferred a degree equivalent to a bachelor's degree by completing an education course of three or more years in a foreign university or other foreign schools by September 30, 2018.

- (3) Those who have completed or are expected to complete 15 years of formal education in countries other than Japan by September 30, 2018 and are recognized to have obtained all necessary credits with excellent academic records by the Graduate School.
- (4) Those who are evaluated to have an academic ability equal to or surpassing that of a holder of a Bachelor's Degree in Preliminary qualification examination of the Graduate School of Mathematics (see the note below), and who will be 22 years old or older by September 30, 2018.

(Note) “(4) Those who are evaluated to have an academic ability equal to...” applies to those applicants who do not satisfy (1), (2) or (3), and who have completed a course at an educational institute equivalent to a university.

**(Note) Preliminary qualification examination for application**

Applicants who qualify under (3) or (4) above must submit themselves to Preliminary qualification examination for application. Such an applicant must submit the application form and other relevant documents to the Student Affairs Office, Graduate School of Science, by the deadline specified below, after receiving an approval from his/her prospective supervisor.

Applicants who have passed the qualification examination are qualified to take the entrance examination, and the application form and other relevant documents submitted by the applicants shall be accepted.

Examination card and relevant documents will be sent to applicants after payment of the application fee is confirmed. The application documents submitted by those who have been judged as “not qualified” shall be returned.

- Application period for Preliminary qualification examination for application:  
February 28 (Wed.) to March 9 (Fri.), 2018
- Announcement of Preliminary qualification examination for application result:  
March 23 (Fri.), 2018

**3. Documents to be submitted**

- (1) Application form and curriculum vitae (use the form specified by the Graduate School)
- (2) Academic transcript, certificate of completion (or expected completion) and recommendation letter issued by the educational institution from which the applicant last graduated (Copies are not accepted.)
- (3) Recommendation letter issued by the applicant's supervising professor, a member of teaching staff, or a supervisor in the employing body who has personal knowledge of the applicant and who is familiar with the details of the applicant's academic accomplishments (The letter must be in a sealed envelope as it is confidential.)
- (4) Bachelor's thesis (A copy is acceptable. If the thesis is written in a language other than Japanese or English, an abstract in Japanese or in English should be attached. In case the applicant cannot submit his/her Bachelor's thesis, submit a document in which the applicant's major academic activities and research achievements are described

instead.)

- (5) Hand written report on the following two themes (use 2-5 sheets of A4-size paper)
  - a. Mathematical theorems or theories that you think interesting, or mathematics textbooks that you have read or are reading together with the summary of their contents.
  - b. Research plan in the graduate school, including the reason why you chose the specified professor as your planned supervisor.
- (6) Certificate of English language ability, unless the applicant is a native speaker of English (If the applicant has taken a standardized English proficiency test, such as TOEFL (Test of English as a Foreign Language), IELTS (International English Language Testing System, Academic Module) or Cambridge ESOL Examinations (FCE, CAE or CPE), submit the applicant's official score.)
- (7) Copy of the applicant's passport
- (8) Copies of both sides of Residence Card or Residence Certificate (only for those living in Japan)
- (9) A photo of applicant (taken within 3 months, 5.5 cm × 4.5 cm, should be attached to the application form)
- (10) Receipt of payment of Application fee (For details, refer to item 4 below.)

(Note) Applicants who take Preliminary qualification examination for application are required to submit the certificate of research history (prepared by the president or the dean of the educational institution from which the applicant last graduated), in addition to the documents specified above.

(Notes for preparing documents)

- a. Documents must be written either in Japanese or in English. (Documents prepared by word processors are acceptable except for the hand written report mentioned in (5).)
- b. In case any of the documents are written in a language other than Japanese or English, attach Japanese or English translation.

#### **4. Application fee**

Application fee (30,000 yen) \*The Application fee is not required for students who are currently Japanese Government MEXT Scholars.

Application fee must be paid either ① at a convenience store or ② by credit card after registering at the following website ("e-shiharai site", <https://e-shiharai.net/english/>). (Payment ① at a convenience store is available only in Japan.)

For details of the payment method, please refer to "How to make the payment for the application fee at a convenience store, by credit card, Union Pay or Alipay" on page 20 of this guideline.

The transfer fee should be covered by the applicant.

(1) Payment at convenience stores

Paste “入学検定料・選考料・取扱明細書(certificate of payment of application fee)” on “『入学検定料・選考料・取扱明細書』貼付用台紙(form for submission of the certificate of payment of application fee)” and submit it with other application documents.

(2) Payment by credit card

Submit the printed “Result” page with other application documents.

(3) Payment period

March 13 (Tue.), 2018 to April 13 (Fri.), 2018

(Note) For inquiries regarding e-shiharai site such as the steps, applicants should check the information, “FAQ” or “Common questions” on the website (<https://e-shiharai.net/English/sss/FAQ.html>), and if you have any further questions, please ask E-service support center (TEL: +81-3-3267-6663) directly.

**5. Application period:** March 27 (Tue.) to April 13 (Fri.), 2018

Note that all documents must arrive by April 13, 2018.

**6. Application documents should be sent to:**

Student Affairs Office, Graduate School of Science, Kyushu University  
744 Motoooka, Nishi-ku, Fukuoka 819-0395, Japan

(Notes for submitting documents)

- a. Write “Application form for Master’s Course of the Graduate School of Mathematics enclosed” in red on the front of the envelope.
- b. The application form and other related documents can be accepted in person at Student Affairs Office, Graduate School of Science from 9:00 a.m. to 5:00 p.m. on weekdays, except national holidays. When mailing the documents, use registered mail and make sure the documents must arrive before the deadline.

**7. Screening Process**

Screening of applicants is conducted mainly based on the documents submitted. Academic examination by telephone or internet will be arranged when necessary. In that case, academic examination shall be given on the applicants’ specialized subjects, and English language, in written or oral form. If applicable to such academic examination, applicants will be informed of the method and schedule after their application documents have been accepted.

## 8. Announcement of screening result and enrollment procedure

The application ID numbers of successful applicants will be posted on the website as follows. The result will also be mailed to the address written on the application form on the same date.

- (1) Website: <http://www.math.kyushu-u.ac.jp/eng/>
- (2) Date and time: May 25 (Fri.), 2018, 10:00 a.m. (Japan time)
- (3) Confirmation of your intention to enroll: Once you are admitted, and if you still wish to enroll at Kyushu University, make sure to send the signed form for Confirmation of Intention to Enroll, enclosed in your result announcement document, to the address below by the designated date via mail, e-mail or fax. If you mail the confirmation form, use registered air mail, such as DHL, FedEx, OCS or EMS.

Mailing Address: Student Affairs Office, Graduate School of Science, Kyushu University  
744 Motoooka, Nishi-ku, Fukuoka 819-0395, Japan  
E-Mail: [riggakus@jimu.kyushu-u.ac.jp](mailto:riggakus@jimu.kyushu-u.ac.jp) Fax: +81-92-802-4016

- (4) Procedure for enrollment: See the “Enrollment Procedure Guidelines” enclosed with the acceptance letter.
- (5) Admission fee and tuition:  
Admission fee: 282,000 yen (to be paid by the end of September, 2018)  
Tuition: 267,900 yen per semester (annual total 535,800 yen)

(Note) The amounts above are subject to change without prior notice. New fees will be applied if changed. International students under Japanese Government MEXT scholarship are not required to make the payments for the admission fee and for the tuition.

## 9. Applicants with Disabilities

Kyushu University provides consultation for applicants with disabilities who may require special arrangements during the entrance examinations or in classes after enrollment.

Please contact the Student Affairs Office, Graduate School of Science prior to the application process as soon as possible as it sometimes takes extra time to decide on the arrangements depending on the situation.

No special arrangements will be made if no contact is made by March 9, 2018.

## 10. Period-extension system

Kyushu University has introduced a Period-extension system. This system enables those who are employed or have disabilities or other difficulties to complete a Master's course over a longer period than the regular period. Once declaration is acknowledged, the total tuition will be the same as that for the regular period. In addition, the application details of the system will be detailed upon notification of the entrance formalities.

## 11. Miscellaneous remarks

- (1) Any documents submitted, such as application forms, will not be returned and the application fee will not be reimbursed.
- (2) An admission may be cancelled, if there is any wrongdoing or misconduct related to application documents.
- (3) For more details of the screening, please contact the address at the bottom of this page.

### ○ Use of personal information

1. Personal information provided for your application will be used exclusively for Kyushu University's screening process and the following purposes:
  - (1) The addresses, names, etc. of the successful applicants may be used for enrollment procedures, etc.
  - (2) Academic transcript issued by the previous university will be used for financial aid when those are in first grade.
2. Academic records and other personal information used for screening of applicants may be used, in a form in which the individual is unidentifiable, for surveys and research concerning the screening of applicants for the Graduate School of Mathematics.
3. Personal information provided for your application will not be used for any other purposes or provided to a third party without your permission, except in cases stipulated in Article 9 of the Act on the Protection of Personal Information Held by Incorporated Administrative Agencies, etc.

Student Affairs Office, Graduate School of Science, Kyushu University 744 Motoooka, Nishi-ku, Fukuoka 819-0395, Japan TEL: +81-92-802-4038 FAX: +81-92-802-4016 E-mail: riggakus@jimu.kyushu-u.ac.jp
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## Doctoral Program

Those applying for the 2018 International Doctoral Program in Mathematics, the Graduate School of Mathematics at Kyushu University, should follow the following procedures. The course will commence on October 1, 2018. All thesis work will be carried out in English.

If you are interested in applying, you are required to make contact with a professor or an associate professor of our graduate school whose area of expertise most closely matches your research topic, prior to the application. The list of our faculty can be found on pages 14-15 and on our web page (<http://www.math.kyushu-u.ac.jp/eng/teachers/index>).

### 1. Department and number of students to be admitted

Department	Number of students
Mathematics	3

In this program, students are to perform their own research in mathematics. The main goal is to become researchers and/or educators in mathematics. Those who complete this program will be awarded the Doctoral Degree in Mathematics (Doctor of Philosophy [mathematics]).

### 2. Qualification for application

Applicants must be citizens of countries other than Japan with Status of Residence “Student” (including those who are expected to acquire this status after being admitted), and satisfy one of the following requirements:

- (1) Those who hold or are to receive a degree equivalent to a Master’s Degree in countries other than Japan by September 30, 2018.
- (2) Those who are evaluated to have an academic ability equal to or surpassing that of a holder of a Master’s Degree in a Preliminary qualification examination of the Graduate School (see the note below), and who will be 24 years old or older by September 30, 2018.

(Note) “(2) Those who are evaluated to have an academic ability equal to...” applies to applicants who do not satisfy (1), and who have completed a course at an educational institute equivalent to a graduate school.

**(Note) Preliminary qualification examination for application**

Applicants who qualify under (2) above must submit themselves to Preliminary qualification examination for application. Such an applicant must submit the application form and other relevant documents to the Student Affairs Office, Graduate School of Science, by the deadline specified below, after receiving an approval from his/her prospective supervisor.

Applicants who have passed the qualification examination are qualified to take the entrance examination, and the application form and other relevant documents submitted by the applicants shall be accepted.

Examination card and relevant documents will be sent to applicants after payment of the application fee is confirmed. The application documents submitted by those who have been judged as “not qualified” shall be returned.

- Application period for Preliminary qualification examination for application:  
February 28 (Wed.) to March 9 (Fri.), 2018
- Announcement of the Preliminary qualification examination for application result:  
March 23 (Fri.), 2018

**3. Documents to be submitted**

- (1) Application form and curriculum vitae (use the form specified by the Graduate School)
- (2) Academic transcript (of all applicable undergraduate and graduate course work), certificate of completion (or expected completion), and recommendation letter issued by the educational institution from which the applicant last graduated (Copies are not accepted.)
- (3) Recommendation letter issued by the applicant’s supervising professor, a member of teaching staff, or a supervisor in the employing body who has personal knowledge of the applicant and who is familiar with the details of the applicant’s academic accomplishments (The letter must be in a sealed envelope as it is confidential.)
- (4) Master’s thesis (A copy is acceptable. If the thesis is written in a language other than Japanese or English, a summary of Master’s thesis written in Japanese or in English must be attached. For applicants who cannot submit Master’s thesis, submit documents of applicants’ research achievements such as academic papers.)
- (5) Certificate of English language ability, unless the applicant is a native speaker of English (If the applicant has taken a standardized English proficiency test, such as TOEFL (Test of English as a Foreign Language), IELTS (International English Language Testing System, Academic Module) or Cambridge ESOL Examinations (FCE, CAE or CPE), submit the applicant’s official score.)

- (6) Copy of the applicant's passport
- (7) Copies of both sides of Residence Card or Residence Certificate (only for those living in Japan)
- (8) A photo of applicant (taken within 3 months, 5.5 cm × 4.5 cm, should be attached to the application form)
- (9) Receipt of payment of application fee (For details, refer to item 4 below.)

(Note) Applicants who take Preliminary qualification examination for application are required to submit the following documents in addition to the documents above.

- a. Research plan: two sets (write horizontally on A4 size papers with approx. 1,300 words in English about the applicant's intended research after entering the Graduate School.)
- b. Certificate of research history (prepared by the president or the dean of the educational institution from which the applicant last graduated)

(Notes for preparing documents)

- a. Documents must be written either in Japanese or in English. (Documents prepared by word processors are acceptable.)
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  - (2) Academic transcript issued by the previous university will be used for financial aid when those are in first grade.
2. Academic records and other personal information used for screening of applicants may be used, in a form in which the individual is unidentifiable, for surveys and research concerning the screening of applicants for the Graduate School of Mathematics.
3. Personal information provided for your application will not be used for any other purposes or provided to a third party without your permission, except in cases stipulated in Article 9 of the Act on the Protection of Personal Information Held by Incorporated Administrative Agencies, etc.

Student Affairs Office, Graduate School of Science,  
Kyushu University  
744 Motooka, Nishi-ku, Fukuoka 819-0395, Japan  
TEL: +81-92-802-4038  
FAX: +81-92-802-4016  
E-mail: [riggakus@jimu.kyushu-u.ac.jp](mailto:riggakus@jimu.kyushu-u.ac.jp)

## List of faculty of the Graduate School of Mathematics, Kyushu University

### Professors

Name	Research Keywords
Katsuki FUJISAWA	Optimization Software, Graph Analysis, High-performance Computing
Yasuhide FUKUMOTO	Fluid Mechanics
Takashi HARA	Mathematical Physics
Fumio HIROSHIMA	Quantum Field Theory, Operator Theory and Spectral Analysis, Functional Integrations
Yuzuru INAHAMA	Stochastic Analysis, Rough Path Theory
Norio IWASE	Topology, Algebraic Topology
Yoshiyuki KAGEI	Partial Differential Equations
Kenji KAJIWARA	Discrete Differential Geometry, Integrable Systems
Masanobu KANEKO	Number Theory
Atsushi KATSUDA	Differential Geometry
Hidefumi KAWASAKI ***	Optimization Theory, Game Theory, Origami Mathematics
Shinichi KOBAYASHI	Number Theory
Miyuki KOISO	Differential Geometry
Yoshihiko MAESONO	Mathematical Statistics
Hiroki MASUDA	Mathematical Statistics, Stochastic Process
Taku MATSUI	Mathematical Physics
Yoshihiro MIZOGUCHI	Software Science, Graph Transformation, Theory of Computing
Masanori MORISHITA	Arithmetic Topology
Ryuei NISHII **	Data Science
Takaaki NOMURA **	Geometric Harmonic Analysis
Hiroyuki OCHIAI	Algebraic Analysis, Representation Theory, Special Function
Hirofumi OSADA	Probability Theory
Osamu SAEKI	Topology, Singularity Theory, Differential Topology, DNA Knots
Tomoyuki SHIRAI	Probability Theory
Toshio SUMI *	Topology, Transformation Groups
Setsuo TANIGUCHI *	Stochastic Analysis
Masato TSUJII	Dynamical Systems
Yasuo WATATANI **	Theory of Operator Algebras
Lin WENG	Algebraic and/or Arithmetic and/or Complex Geometry, Number Theory

\*: Those who are affiliated with the Faculty of Arts and Science.

\*\* : Those who are planning on retiring at the end of March, 2019.

\*\*\*: Those who are planning on retiring at the end of March, 2020.

## Associate Professors

Name	Research Keywords
Takuro ABE	Arrangements of Hyperplanes, Algebraic Geometry
Hayato CHIBA	Differential Equations, Dynamical Systems, Functional Analysis
Kang-Chi CHO ***	Algebraic Geometry, Complex Differential Geometry
Yasuro GON	Number Theory
Kazuhiro HIKAMI	Mathematical Physics
Kei HIROSE	Computational Statistics, Machine Learning
Yutaka ISHII	Dynamical System Theory
Joe KAMIMOTO	Complex Analysis, Partial Differential Equations
Naoyuki KAMIYAMA	Discrete Optimization
Takuya KONNO	Number Theory, Arithmetic Theory of Automorphic Forms
Toshihiko MASUDA	Operator Algebras
Shunsaku NII	Dynamical Systems
Yukio OTSU	Differential Geometry
Craig PASTRO *	Hopf Algebra, Quantum Groups, Theoretical Computer Science
Pierluigi CESANA	PDEs, Calculus of Variations, Gamma-convergence, Materials Science
Shingo SAITO *	Classical Real Analysis, Multiple Zeta Values, Actuarial Science
Hirofumi SASAHIRA	Topology, Gauge Theory, Floer Theory
Daisuke TAGAMI	Numerical Analysis
Ryo TAKADA	Nonlinear Partial Differential Equations, Harmonic Analysis
Toshie TAKATA	Topology, Quantum Groups
Yuichiro TAKEDA	Algebraic Geometry, Topology
Atsushi TERO	Mathematical Model
Hayato WAKI	Continuous Optimization, Optimization Software
Masaya YASUDA	Elliptic Curve Cryptography, Homomorphic Encryption, Algebraic Geometry
Hiroshi YOSHIDA	Mathematical Biology on Regeneration

\*: Those who are affiliated with the Faculty of Arts and Science.

\*\*\*: Those who are planning on retiring at the end of March, 2020.



**Application Form**  
**Kyushu University International Programs in Mathematics**  
**Autumn 2018**

<b>Application ID Number:</b> (Leave this space blank. The space will be filled out by the University.)				<p><b>Photograph</b></p> <p>Attach your photograph (waist up, head uncovered and front view) here.</p> <p>Write your name and nationality in block letters on the back of the photo.</p> <p>5.5cm × 4.5cm</p>
<b>1. Name in Alphabet</b>	<b>Family Name</b>	<b>First Name</b>	<b>Middle Name</b>	
<b>2. Name in Kanji (if any)</b>				
<b>3. Date of Birth (YYYY/MM/DD)</b>				
<b>4. Sex (Male:1 / Female: 2)</b>				
<b>5. Marital Status</b>				
<b>6. Nationality</b>				
<b>7. Present Status (with the name of the university attended or employer)</b>				
<b>8. Chosen Program (Master's Program or Doctoral Program)</b>				
<b>9. Residence Status in Japan<sup>#1</sup></b>				
<b>10. First Language</b>				
<b>11. Current Address</b>	<b>Address</b>			
	<b>TEL<sup>#2</sup></b>			
	<b>FAX<sup>#2</sup></b>			
	<b>E-mail (required)</b>			

<b>12. Parental Contact Information</b>	<b>Name</b>	
	<b>Relationship to the Applicant</b>	
	<b>Address</b>	
	<b>TEL<sup>#2</sup></b>	
	<b>FAX<sup>#2</sup></b>	
	<b>E-mail</b>	
<b>13. Score Reports of English Proficiency Tests</b>	<b>Examination<sup>#3</sup></b>	
	<b>Date Taken</b>	
	<b>Score</b>	
<b>14. Research Topics</b>		
<b>15. Title of (Bachelor's or Master's) Thesis</b>		
<b>16. Name of Planned Supervisor</b>		

#1: If you do not have a residence status in Japan, write "No Residence Status" in the space.

#2: Include the country code before the phone number and fax number.

#3: Write the name of the standardized English proficiency test that you have taken, such as TOEFL (Test of English as a Foreign Language), IELTS (International English Language Testing System, Academic Module) or Cambridge ESOL Examinations (FCE, CAE or CPE), together with the category, if any.

<b>Name in Alphabet</b>	
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**Curriculum Vitae: Educational Background**

(Describe your complete educational background from elementary to your most recent educational level.)

<b>Category</b>	<b>School Name</b>	<b>Location (City/Country)</b>	<b>Period of Schooling/ Requisite year of schooling</b>	<b>Period of Attendance (YYYY/MM – YYYY/MM)</b>
<b>Elementary Education</b>				
<b>Secondary Education (Junior High School)</b>				
<b>Senior Secondary Education (High School)</b>				
<b>University (undergraduate level)</b>				
<b>University (graduate level) and/or other</b>				

<b>Name in Alphabet</b>	
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**Curriculum Vitae: Employment Record (if any)**

<b>Name of organization</b>	<b>Location</b>	<b>Period of employment (YYYY/MM– YYYY/MM)</b>	<b>Position</b>	<b>Type of work</b>