

Guidelines for Application

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

International Programs in Mathematics

Special Screening for Admission
in October, 2017

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. The doctoral students may also participate in long-term internships (more than three months) at Japanese firms, provided that they meet the required conditions.

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 2017 International Master's Program in Mathematics, the Graduate School of Mathematics at Kyushu University, should follow the following procedures. The course will commence on Sunday, October 1, 2017. All lectures and guidances will be given in English.

If you are interested in the application, 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 13-14 and on our web page <http://www.math.kyushu-u.ac.jp/eng/teachers/index>.

1. Department and number of students for admission

Department	Course	Number accepted
Department of Mathematics	Mathematics	5

Mathematics Course offers guidance on researches in Mathematics and Mathematical Sciences and on writing a Master's Thesis. A successful student will be awarded a Master's Degree in Mathematics (Master of Mathematics).

2. Qualification for application

Applicants must be citizens of countries other than Japan and satisfy one of the following requirements:

- (1) Those who have completed 16 years of formal education in countries other than Japan (including those who are expected to complete such education by September 2017).
- (2) Those who has been 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.

(3) Those who have completed 15 years of formal education in countries other than Japan, and are judged by the Graduate School to have obtained all necessary credits with excellent academic records.

(4) Those who are evaluated in an individual screening of requirements for admission of the Graduate School to have an academic ability equal to or surpassing those who have graduated from a university, and who will be 22 years old or over by September 30, 2017.

(Note) “(4) Those who are evaluated in an individual screening of requirements for admission of the Graduate School ...” applies to those applicants who do not satisfy requirements (1) or (2) or (3), and who have completed a course at an institution with educational functions equivalent to those of a university.

(Note) Preliminary qualification examination for application

Applicants who qualify under (3) or (4) above must submit an application form for preliminary qualification examination. Such applicants 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 their planned supervisors.

Applicants who have passed the qualification examination are qualified to take the entrance screening examination, and the application form and other relevant documents submitted by such applicants shall be accepted after payment of the Application Fee is confirmed. Documents submitted by those who have been judged to be “not qualified” for application as a result of the preliminary examination shall be returned.

- Application period: March 1 (Wed.) to March 10 (Fri.), 2017
- Announcement of qualification examination result: March 24 (Fri.), 2017

3. Documents to be submitted

- (1) Application form and curriculum vitae (Use the form specified by the Graduate School.)
- (2) Official academic transcript, graduation certificate (or certificate that confirms expected graduation), and recommendation letter issued by the institution from which the applicant last graduated (copies 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 applicant's passport
- (8) Copies of both sides of Resident Card or Alien Registration Card (Only for those living in Japan)
- (9) 3 photos of applicant (taken within 3 months, 5.5 cm × 4.5 cm, to be affixed to the application form)
- (10) Receipt of payment of Application Fee (For details, refer to item 4 below.)

(Note) Applicants who are subject to a preliminary examination must submit the certificate of research history (prepared by the President or the Dean of the university from which the applicant last graduated or by the head of the institution the applicant belongs to), in addition to the documents specified above.

(Notes for preparing documents)

- a. All documents should be prepared either in Japanese or in English. (Use of a word processor or PC is acceptable except for the hand written report mentioned in (5).)
- b. If any of the necessary documents is prepared in a language other than Japanese or English, a Japanese or English translation should be attached.

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 ① at convenience store or ② by credit card after registering to the following website

(“e-shiharai site”, <https://e-shiharai.net/>). (Payment ① at convenience store is available only in Japan.)

For the detail of the payment method, please refer to “How to make the payment for the Application Fee by credit card, Union Pay or Alipay” on page 18 of this guideline.

An Administrative Fee will be added to the Application Fee

【(1)Payment at convenient stores】

Paste “入学検定料・選考料・取扱明細書(receipt of entrance fee and screening fee)” on “『入学検定料・選考料・取扱明細書』貼付用台紙(sheet for pasting the receipt)” and submit it with other application documents.

【(2)Payment by credit card】

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

【Payment period】 March 14 (Tue), 2017 to April 21 (Fri), 2017

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

5. Application period: March 28 (Tue.) to April 21 (Fri.), 2017

Note that all documents must arrive by April 21, 2017.

6. Application documents should be sent to:

Student Affairs Office, Graduate School of Science, Kyushu University
744 Motooka, 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 shall be accepted from 8:30 a.m. to 5:00 p.m. on weekdays, except national holidays. All documents must be sent via air registered mail, such as DHL, FedEx, OCS or EMS. Make sure the documents arrive before the deadline.

7. Procedures for screening

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. Applicants applicable to such academic examination will be informed of the method and schedule after their application documents have been accepted.

8. Notification 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 26 (Fri.), 2017, 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 fax or mail. If you mail the confirmation form, use air registered 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
Fax: +81-92-802-4016

- (4) Procedure for enrollment: See the “Enrollment Procedure Guidelines” enclosed with the acceptance letter.
- (5) Admission fee, tuition: Admission fee: 282,000 yen (to be paid by the end of September 2017)
Tuition: 267,900 yen per semester (total 535,800 yen annually)

(Note) The payment amounts above are subject to change. If amounts are revised at the time of or after enrollment, the new amounts will be applied after such revision. Students under MEXT scholarship are not required to make the payments.

9. Miscellaneous remarks

- (1) The documents submitted such as application forms and the Application Fee paid will not be returned.
- (2) If any false statement is found in any of the application documents after admission, the admission may be cancelled.
- (3) For more details of the screening, please contact:

10. Applicants with Disabilities

The 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 of 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.

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Kyushu University
744 Motooka, Nishi-ku, Fukuoka 819-0395, Japan
TEL: +81-92-802-4038
FAX: +81-92-802-4016
E-mail: riggakus@jimukyushu-u.ac.jp

Doctoral Program

Those applying for the 2017 International Doctoral Program in Mathematics, the Graduate School of Mathematics at Kyushu University, should follow the following procedures. The course will commence on Sunday, October 1, 2017. All thesis work will be carried out in English.

If you are interested in the application, 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 13-14 and on our web page <http://www.math.kyushu-u.ac.jp/eng/teachers/index>.

1. Department and number of students for admission

Department	Course	Number accepted
Department of Mathematics	Mathematics	3

In Mathematics course, students are expected to carry out researches on Mathematics and Mathematical Sciences from theoretical viewpoints aiming at being an educator and/or a researcher of Mathematics after completion. A successful student will be awarded a Doctoral Degree in Mathematics (Doctor of Mathematics). Students may also participate in long-term internships (more than three months) at Japanese firms, provided that they meet the required conditions.

2. Qualification for application

Applicants must be citizens of countries other than Japan 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 2017.
- (2) Those who are evaluated in an individual screening of requirements for admission of the Graduate School to have an academic ability equal to or surpassing that of a holder of a Master's degree, and who will be 24 years old or

over by September 30, 2017.

(Note) “(2) Those who are evaluated in an individual screening of requirements for admission of the Graduate School ...” applies to those applicants who do not satisfy requirement (1), and who have completed a course at an institution with educational functions equivalent to those of a graduate school.

(Note) Preliminary qualification examination for application

Applicants who qualify under (2) above must submit application form for preliminary qualification examination. Such applicants 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 their planned supervisors.

Applicants who have passed the qualification examination are qualified to take the entrance screening examination, and the application form and other relevant documents submitted by such applicants shall be accepted after payment of the Application Fee is confirmed. Documents submitted by those who have been judged to be “not qualified” for application as a result of the preliminary examination shall be returned.

- Application period: March 1 (Wed.) to March 10 (Fri.), 2017
- Announcement of qualification examination result: March 24 (Fri.), 2017

3. Documents to be submitted

- (1) Application form and curriculum vitae (Use the form specified by the Graduate School.)
- (2) Official academic transcript (of all applicable undergraduate and graduate course work), completion certificate (or certificate that confirms expected completion), and recommendation letter issued by the institution from which the applicant last graduated (copies 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, an abstract in Japanese or in English should be attached. In case the applicant cannot submit his/her Master’s thesis, submit a document in which the applicant’s major academic papers and research achievements are listed instead.)
- (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 applicant's passport
- (7) Copies of both sides of Resident Card or Alien Registration Card (Only for those living in Japan)
- (8) 3 photos of applicant (taken within 3 months, 5.5 cm × 4.5 cm, to be affixed to the application form)
- (9) Receipt of payment of Application Fee (For details, refer to item 4 below.)

(Note) Applicants who are subject to a preliminary examination must submit the documents below, in addition to the documents specified above.

- a. Research plan: 2 sets (Write horizontally in A4-size paper with approx. 1,300 words in English about what you intend to study after enrolling. One photocopied version may be accepted.)
- b. Certificate of research history (Submit a certificate showing the outline of the research prepared by the head of the institution the applicant belongs to.)

(Notes for preparing documents)

- a. All documents should be prepared either in Japanese or in English. (Use of a word processor or PC is acceptable.)
- b. If any of the necessary documents is prepared in a language other than Japanese or English, a Japanese or English translation should be attached.

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744 Motooka, Nishi-ku, Fukuoka 819-0395, Japan
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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
Shuichi KAWASHIMA	Partial Differential Equations
Shinichi KOBAYASHI	Number Theory
Miyuki KOISO	Differential Geometry
Yoshihiko MAESONO	Mathematical Statistics
Hiroki MASUDA	Mathematical Statistics, Stochastic Process
Yoshihiro MIZOGUCHI	Software Science, Graph Transformation, Theory of Computing
Taku MATSUI	Mathematical Physics
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
Yoshie SUGIYAMA	Partial Differential Equations
Setsuo TANIGUCHI *	Stochastic Analysis
Shu TEZUKA	Computational Statistics
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

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
Osamu MARUYAMA	Machine Learning, Bioinformatics
Toshihiko MASUDA	Operator Algebras
Shunsaku NII	Dynamical Systems
Yoshiyuki NINOMIYA	Statistics
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
Toshio SUMI *	Topology, Transformation Groups
Daisuke TAGAMI	Numerical Analysis
Toshie TAKATA	Topology, Quantum Groups
Yuichiro TAKEDA	Algebraic Geometry, Topology
Atsushi TERO	Mathematical Model
Yoshimichi UEDA	Operator Algebras, Free Probability Theory
Hayato WAKI	Continuous Optimization, Optimization Software
Masaya YASUDA	Elliptic Curve Cryptography, Homomorphic Encryption, Algebraic Geometry
Hiroshi YOSIDA	Mathematical Biology on Regeneration

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

Application Form
Kyushu University International Programs in Mathematics
Autumn 2017

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

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

#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.

Name in Alphabet	
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Curriculum Vitae: Educational Background

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

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

Name in Alphabet	
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Curriculum Vitae: Employment Record (if any)

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