# 2020 Application for World-leading INnovative Graduate Study Program (WINGS), Frontiers of Mathematical Sciences and Physics (WINGS-FMSP)

## Applicant information

<table>
<thead>
<tr>
<th>Name in full</th>
<th>Male /Female</th>
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<tbody>
<tr>
<td>Nationality</td>
<td>Date of birth</td>
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## Academic record

Graduated in _____ (month), _____ (year) from:

________________________________________

(department, faculty, university)

Enrolled in _____ (month), _____ (year) in: Department of _______________________, Graduate School of _______________________, the University of Tokyo

1st-year Master's student as of October 2020

Student ID: __________________

## Personal address

<table>
<thead>
<tr>
<th>Phone number</th>
<th>E-mail address</th>
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<tbody>
<tr>
<td>Postal code</td>
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## Affiliation

Department of _______________________, Graduate School of _______________________, the University of Tokyo

(Name of research center or institute: _____________________________)

## University address

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## Supervisor

<table>
<thead>
<tr>
<th>Affiliation</th>
<th>Full name</th>
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## Desired secondary supervisor (*1)

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<th>2</th>
<th>3</th>
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Do you receive any scholarship loans from organizations such as JASSO? (YES/NO) If YES, please fill out the following.

Period of participation: ________________________ Per month: ___ 0,000 yen

Do you receive any scholarship for foreign students? (YES/NO) If YES, please fill out the following.

Name of scholarship: ________________________ Period of participation: ________________________ Per month: ___ 0,000 yen

Do you wish to be appointed as a TAKUETSU Research Assistant? (YES/NO)

Do you apply simultaneously the Forefront Physics and Mathematics Program to Drive Transformation (FoPM)? (YES/NO) If YES, please select your first choice. (WINGS-FMSP/FoPM) (*2)

## Research topic

(*1) Choose candidates for a secondary supervisor among the list of FMSP instructors.

https://park.itc.u-tokyo.ac.jp/MSF/FMSP_WINGS/staff.html

(*2) If you have succeeded both applications, the final result of the selection is decided based on this choice.
1. Research Proposal
(1) Background and Significance
Describe the background to your research including current problems, what needs to be solved and how you come up with the idea and its significance. Provide references as appropriate.
(2) Research Goals and Area of Study
a. Describe your research goals, methods, and area of study.
b. Give details of your plans, including what you intend to reveal and to what extent.
(3) Distinctions and Unique Points
Please describe about the following items.
  a. If there is any prior researches, indicate distinctions, point of view, and unique points of the research in comparison with them.
  b. Position and significance of the research among relevant researches inside and outside of Japan.
  c. Expected impact and future prospects when the research is completed.

(4) Timeline for Your Proposal
The length of description for each year may be changed as long as the whole description is within the given space.

(First year)

(Second year)

(Third year onward)
2. Research Background

(1) Describe your research up to the present point. You may include your graduation project, and studies equivalent to such projects (e.g., Special Experiments, Theoretical exercises). For the following three categories, you must list only those works in which you played a central role. List each item with a running number, and state "None applicable" for a category for which you do not have anything to list.

(2) Presentations given at conferences and symposia, both domestic and international (Divide your list into oral and poster, as well as reviewed and non-reviewed, presentations, and mark them accordingly.) List only those presentations that have been given by the applicant themselves. For each item, you should provide the names of all authors (including the applicant, in the same order as at the time of the presentation; you may omit part of the list of names by substituting them with "and __ others" if there are many co-authors), the name of the conference, the identification number for your paper, location, and month and year of your presentation. (Presentations planned for the future should be excluded, except in cases where your submissions have already been accepted. In such a case, you must attach a document verifying the acceptance of your paper.)

(3) Papers published in academic journals and books (you may list preprints and articles published (will be published) in Conference Proceedings. Divide your list into reviewed and non-reviewed publications.) For each item, you must list the names of all authors (including the applicant, in the same order as in the paper; you may omit part of the list of names by substituting them with "and __ others" if there are many co-authors), your paper title, name of the journal, publisher, volume and issue, page numbers, and year of publication, in this order. For papers already accepted but not yet published, you must attach documents verifying the acceptance of your papers.

(4) Other (e.g., awards)
3. Essay on Your Motivation for Applying for WINGS-FMSP and Your Vision for Your Future Career

Describe why you wish to apply to the WINGS-FMSP course, and what you plan for your career after graduating from the PhD program. Describe how you wish to contribute to interdisciplinary research or research relevant to society. Also provide your self-assessments on your strengths and achievements of special note (e.g., research presentations, exceptional academic achievements, awards).