This program has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 754362.

GUIDE FOR APPLICANTS


This is a 2-year call for applications for 40 PhD fellowships in Mathematical Science in Paris.

Second call timetable (21 fellowships).

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<td>May, 6th 2019</td>
<td>Deadline for the second phase: only for pre-selected candidates.</td>
</tr>
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</table>

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Version 2, November 2018.

Disclaimer: the Guide has no legal value in itself and thus does not supersede the Grant Agreement – 754362 – MathInParis H2020-MSCA-COFUND between the Research Executive Agency (REA) of the European Commission and the FONDATION SCIENCES MATHEMATIQUES DE PARIS (FSMP).
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1 The Essential

What are the ‘International Doctoral Training in Mathematical Sciences in Paris MathInParis’ COFUND actions?

The International Doctoral Training in Mathematical Science in Paris “Math in Paris” Co-funded by Marie Skłodowska-Curie Actions offers 40 PhD fellowships in the framework of the European Horizon 2020 programme “Marie Skłodowska-Curie Co-funding of Regional, National and International Programmes”. This offer is spread over 2 calls in 2018 and 2019. PhD projects will be hosted in one of the laboratories in the FSMP network in Paris and fellows will enroll in one of the three Doctoral School (see Annex 1,2). The PhD project can also be in partnership with industry.

Who can apply?

1. Candidates must have a master degree or an equivalent diploma at the time of their enrollment.
2. They should speak French or English.
3. There is no nationality or age criteria but the candidates must:
   • Not have resided or carried out their main activity (work, studies, etc.) in France for more than 12 months in the 3 years immediately before the deadline of the call.
   • At the time of the call deadline: be in the first four years (full-time equivalent research experience) of their research careers and have not been awarded a doctoral degree yet.

Which research topics are supported?

All domains of researches in pure and applied mathematics and/or fundamental computer science are eligible.

How does it work?

Candidates must submit a PhD project that will be supported and supervised by at least one researcher based in one of the laboratories in the FSMP network. They have to apply online within the specified deadlines. All eligible proposals will be evaluated in the pre-selection phase. The MathInParis Scientific Committee will interview the 40 selected candidates in Paris. A final list of around 20 fellows will be established.

What kind of contract fellows have?

Selected fellows will have a “doctoral contract” with one of the University of the FSMP. They will get a 2710 euros grant as monthly gross salary including employer cost, for exactly 36 months, provided that the inscription is confirmed every year.

SECOND CALL: Timing and selection procedure.

April 1st 2019 (11.59 pm, Paris time): deadline for the submission of applications online. After verifying its eligibility, each application is submitted to the MathInParis Steering Committee and the head (or representative) of each Doctoral School.

April 13th 2019: a short-list of selected candidates will be produced. Non-selected applicants will receive a notification and pre-selected candidates will be asked to provide further documents. They will also receive a notification to attend an interview in Paris and instructions to prepare their travel and stay.

May 6th 2019: deadline of the second phase. All pre-selected candidates will have to produce the additional information required.

May 14th to May 18th 2019: Interviews by the MathInParis Scientific Committee and visit of the host laboratory by each applicant.

May 20th 2018: Final results will be published online.
2 About MathInParis COFUND

2.1 General aspects
The fundamental goal of the program is to train students in mathematics and their applications in all aspects of their career development. Paris is a fantastic place not only in terms of formal research training with seminars, workshops, visits of foreign researchers, but also in terms of non-academic opportunities of training personal and professional management skills. MathInParis Doctoral program will highlight the wide range of possible careers and develop abilities to lead, manage and transmit projects. The idea is also to select outstanding MathInParis fellows, who clearly emerge in their generation, and have a potential to perform an academic or nonacademic career at the highest level.

The main features of the program is to enhance this potential by offering:
- An extremely attractive place in FSMP network for international brilliant students planning to prepare a PhD in mathematics and computer science.
- A strengthened advising.
- A broadened support for career development.

In particular the program will focus on straitening the research options in terms of international, inter-sectorial and inter-disciplinarily mobility.

2.2 Eligibility criteria
To be eligible candidates must fulfill the following criteria (in case of doubt, please do not hesitate to contact the MathInParis helpdesk for checking):

1. The candidates must have a master degree or an equivalent diploma at the time of their enrollment.
2. They should speak French or English.
3. There is no nationality nor age criteria, EU members as well as third countries members can apply. However, in agreement with MSCA mobility standards, the doctoral program must support researchers, who — at the time of the call deadline —:

   **ESR conditions:** are ‘early-stage researchers’ (i.e. in the first four years of their research careers and not have a doctoral degree). Full-time equivalent research experience is measured from the date when the researcher obtained the degree entitling him or her to embark on a doctorate (either in the country in which the degree was obtained or in the country in which the researcher is recruited) even if a doctorate was never started or envisaged. Part-time research experience will be counted pro-rata.

   **MSCA mobility standards:** show transnational mobility by having not resided or carried out their main activity in France for more than 12 months in the 3 years before the call deadline.

Please note that for points 1 and 3 candidates have to provide hard evidence: copies of previous employments, university grades, utility bills, entry/exit stamps in passport, etc.

MathInParis administrative team takes care of checking the authenticity of the documents and detecting frauds. They can issue warnings to the applicants before the closing date of call, when the application is incomplete, or when documents provide insufficient information or cannot be clearly identified as official documents emanating from Higher Education establishments.

2.3 Working and employment conditions
MathInParis fellows have a contract with one of FSMP Universities and will be employed under the French “Contrat doctoral” terms, as defined by the “Décret du 23 avril 2009-46”.

Hence, they will benefit from:
- Social security for the applicants and its accompanying family members (including children, husband/wife/partner if unemployed). Please note that the latest condition can vary depending on different universities laws.
- Maternity and paternity leaves (with potential contract extension on request).
- Unemployment rights.
- Retirement rights.

The participants will receive a financial support for a period of exactly 36 months. They will get a 2710 euros grant as monthly gross salary, including employer cost. After standard deductions, this will amount
to a net salary of ~ 1500 € (a typical gross salary after deduction of employer costs is around 1900 €). Note that all above conditions can change depending on the specific university laws and conditions. Please be aware that registration fees may be asked to fellows to enroll in Ecole Doctoral: the amount is established by the French government and today is 380€ for year. (https://www.service-public.fr/particuliers/vosdroits/F2865).

As an employee of the university assigned to a research laboratory, MathInParis fellows get access to the scientific library, to an office with a dedicated desk and a personal computer, and to the cafeteria. In addition, the laboratory gives them financial resources for travelling (research visits and participation to conferences/workshops) and for additional equipment if needed. The FSMP contributes via the EU founds to the mandatory mobility. In case of necessity MathInParis administrative team helps the PhD students to prepare their arrival in Paris: accommodation advice, support for administrative issues including visas, health, bank, etc.

2.4 Supervision, training and career guidance: typical activities of fellows
The supervision of MathInParis fellows will be provided in one of the three Doctoral Schools they enrol in. According to the Doctoral School rules, an advisor and a tutor are compulsory, in addition for MathInParis PhD students, an external scientific advisor is also involved. More precisely:

The advisor provides the PhD thesis topic. He/she is involved at the earliest stage of the recruitment. He/she is in charge of the daily monitoring of the student for the scientific progress of the thesis. He/she also provides advice for the career development.

The tutor follows the student. He/she is a researcher who may belong to the same university, independent of the advisor. He/she provides as well scientific advice, but his/her main role is to have an external vision of the thesis progress. In particular, by regularly meeting with the students, he/she can detect early potential issues.

The external advisor is chosen by Doctoral Schools and FSMP. He/she should be an international senior researcher in the same field. Its role is to advise the scientific progress of the thesis, and the career development of the student. He/she should arouse the PhD student at least 2 months abroad internship.

The fundamental goal of a MathInParis student is the achievement of the PhD thesis in mathematics, computer science and their applications. In order to achieve this result within a global picture of international, inter-sectorial and inter-disciplinary mobility the MathInParis students has many opportunities.

First, during the PhD contract, a research visit abroad of at least 2 months will be mandatory. Students will be guided for planning this visit in particular by the external advisor. This additional research experience abroad will increase not only intellectual, academic and technical, but also personal and professional skills of MathInParis fellows. It could also prepare of post-doctoral project abroad. Note that co-direction and "cotutelle" are possible but the cumulative duration of professional trips abroad should not exceed 12 months during the 36 months of the MathInParis PhD contract. (See also the Mobility form in Annex 4).

The MathInParis Board has significant interactions with the non-academic world, in particular have partners in many industries and banks, such as Airbus, Air France, Atos, BNP, Criteo, Dassault, and EDF. Therefore, it will be proactive in the stimulating joint PhD fellows with Industry or industrial internship. The latest consists of weeks where an actor of the private sector presents a practical problem to the students that he/she seeks to solve. This can open the minds of students to the world of researchers in industry and offer them many applied research subjects.

Moreover, MathInParis fellows:

- Participate regularly to the laboratory seminar, to thematic seminars related to their research and to seminars of PhD students. Some seminars are interdisciplinary (Math-bio, Math-info, Math and chemistry for example), which yields them to meet researchers and PhD students from other disciplines.
- Will have to attend at least one research school per year. Offers are regular and cover a large area of research in mathematics. If needed, travel and housing expenses for the participation of PhD students can be covered.
- Must participate to the "Restitution Day": by the end of their first year of thesis, students are invited to present the subject of their work in front of other doctoral students, thesis supervisors, program managers and all concerned researchers. This first experience of scientific
communication is extremely profitable, helps to create a positive dynamic between students and to facilitate teamwork.

- Must follow 15 days of non-mathematical seminars during the 3 years of the thesis. The three Institutes of Doctoral Training offer a large choice of disciplinary seminars or short training modules on specific skills and methodologies.
- Are invited to participate to industrial challenges such Challenge Data. Each company presents an open learning problem (with classification or regression) and gives to participants training data and real-life tests data. The students submit online their algorithms of resolution and compete for the best performance score.
- Can be trained in English or French language.
- Will also be required to spend at least 3 half-days in exhibitions. These could be: exhibitions targeting the general public on popularization of mathematics as “Fête de la science”; annual days dedicated to mathematics lectures dealing with subjects related to industrial topics and industrial mathematical research as “Horizon maths” the “Forum Emploi Maths” (Math Jobs Forum), where they can meet recruiters of industrial and tertiary sector or events like “Mathématiques en Mouvement”, which purpose is to show the amazing diversity of the research in mathematics.

In order to be helped in their career guidance laureates of MathInParis project will be strongly incited to participate to training sessions for professional insertion. This is done with the help of the project partner Adoc Talent Management a company in Paris that is expert in inserting PhDs in the socio-economic world. MathInParis Board organize sessions focused on identify and enhance his/her own skills, know companies and jobs, initiate his/her job research, as well as real job interview simulations.

2.5 Fellows obligations

The MathInParis fellow:

- Will start work at the Doctorate within the date indicated in the appointment letter;
- Will enjoy rights and obligations following his employment contract with the chosen university such as: attendance requirements, passing exams, next year admission, etc.
- Will work regularly on the research project at the Doctorate, in particular regularly attending scientific events also to present, disseminate and promote his research.

Following the Horizon 2020 rules they have to guarantee:

Open access to scientific publications: The fellow must ensure open access (free of charge online access for any user) to all peer reviewed scientific publications relating to its results. In particular, it must as soon as possible and at the latest on publication, deposit a machine-readable electronic copy of the published version or final peer-reviewed manuscript accepted for publication in a repository for scientific publications.

Information on EU funding — Obligation and right to use the EU emblem: Any dissemination of results (in any form, including electronic) must display the EU emblem and include the following text: “This project has received funding from the European Union’s Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 754362”.

In particular the MathInParis fellow has to provide (with the help of the triplet advisor/tutor/external advisor):

1. Submit a research declaration within 20 days of the start of the research training activities with personal and fellowship information (please note that personal data are collected and processed by the Agency or the European Commission).
2. Fill the Mobility Form (see Annex 4).
3. A yearly report to MathInParis Board, describing the scientific evolution of the work as well as the research and non-research oriented transferable skills already acquired and still to be acquired.
4. A specific mid-term questionnaire giving details on expected non-academic skills to gain and ethics issues. Special attention will be paid on the international and inter-sectorial opportunities.
5. A mid-term presentation to a Thesis Committee according to the rules of each Doctoral School. This committee may be organized during the second year to allow the doctoral candidate to present his/her research progress.

Obligation to comply research integrity principles

The fellows must respect the highest standards of research integrity — as set out, for instance, in the European Code of Conduct for Research Integrity.

This implies notably compliance with the following essential principles: honesty, reliability, objectivity, impartiality, open communication, duty of care, fairness and responsibility for future science generations. This means in particular that students carry out research tasks:
• Present their research goals and intentions in an honest and transparent manner.
• Design their research carefully and conduct it in a reliable fashion, taking its impact on society into account.
• Use techniques and methodologies (including for data collection and management) that are appropriate for the field(s) concerned.
• Exercise due care for the subjects of research be they human beings, animals, the environment or cultural objects.
• Ensure objectivity, accuracy and impartiality when disseminating the results.
• Allow as much as possible and taking into account the legitimate interest of the student access to research data, in order to enable research to be reproduced.
• Refrain from practicing any form of plagiarism, data falsification or fabrication.
• Avoid double funding, conflicts of interest and misrepresentation of credentials or other research misconduct.

Regarding all others possible contract obligations or right (such as pregnancy, childbirth, illness lasting more than a month, etc...) fellows have to follows the rules of their employer university. However, they have the obligation to keep informed the MathInParis Board.

2.6 Ethical issues

Researches funded by the MathInParis Cofund must fulfill the ethical procedure of H2020 as detailed in the ethical Questionnaire (see Annex 3). It takes into account the specificities of mathematics with interaction (including Biology), the intellectual properties and confidentialities rights.

The main points are:
• Funding will not be granted for activities carried out outside the EU if they are prohibited in all Member States.
• Funding will not be granted for activities that destroy human embryos (for example, for obtaining stem cells).
• The research project must have an exclusive focus on civil applications.

Moreover, the research must not:
• Aim at human cloning for reproductive purposes.
• Intend to modify the genetic heritage of human beings, which could make such changes heritable (with the exception of research relating to cancer treatment of the gonads, which may be financed).
• Intend to create human embryos solely for the purpose of research or for the purpose of stem cell procurement, including by means of somatic cell nuclear transfer.
3 How to apply

3.1 Turning your idea into an effective proposal

If you wish to candidate you must:
1) Check the eligibility criteria at point 2.2. If you have any doubt, confirmation may be obtained by the MathInParis helpdesk.
2) Find a potential advisor, contact the directory of the host laboratory and of the local doctoral school. To find a relevant recognized team and a potential advisor you can also look at the list of network research labs and groups together with their main research topics on the dedicated webpage on the FSMP site. With his/her help prepare a letter of motivation (in French or English) to start a research project in Paris and a proposal of research area for your thesis.

Please, before submit your project check that it fulfills the ethical procedure of H2020 (see the ethical Questionnaire in Annex). Note that in particular funding will not be granted for activities carried out outside the EU if they are prohibited in all Member States or for activities that destroy human embryos (for example, for obtaining stem cells). Moreover, the research project must have an exclusive focus on civil applications. If you have any doubt please do not hesitate to contact the MathInParis helpdesk before applying.

3.2 Proposal submission for pre-selection

Before the deadline of the pre-selection stage, the candidate will have to submit online an application consisting of:

Applicant’s file:
1. General information: family name, first name, nationality, date of birth, email address, current address.
2. Resume (CV).
3. Transcript of diplomas entitling you to embark on a doctorate or at default grades of the current year.
5. Research interests.

Advisor’s file:
1. CV.
2. List of recent publications.
3. List of current PhD candidates under his/her supervision.
4. Official letter of consent for advising the applicant.

Recommendation letters by professors of current (or last) university.

Candidates have also to declare on line that they fulfill the eligibility conditions (see point 2.2). In particular:

**Master degree:** I declare that I have (or I will have at the time of my enrollment) a Master degree or equivalent degree entitling me to embark on a doctorate.

**MSCA mobility standards:** I declare that I have not resided or carried out my main activity in France for more than 12 months in the last 3 years before the end of the call (for the second call between 1st of April 2016 and 1st of April 2019). If pre-selected I will provide hard evidence before the end of the second phase selection (for the second call: 6th of May 2019): copies of previous employments, university grades, utility bills, entry/exit stamps in passport, etc.
I am aware that if these documents are not provided my application will be automatically rejected.

**ESR conditions:** I declare that I do not have a doctoral degree and I am in the first four years of my research careers. This means that I have obtained my Master (or equivalent degree entitling me to embark on a doctorate) in the last four years before the end of the call (for the second call after the 1st of April 2015) or that my research experience pro-rata is not more than four years.

If pre-selected I will provide hard evidence before the end of the second phase selection (for the second call 6th of May 2019): copies of previous employments, university grades, etc.
I am aware that if these documents are not provided my application will be automatically rejected.
Please, be aware that your personal data are collected and processed by the Research Executive Agency and/or the European Commission.

3.3 Proposal submission for final selection and interview

If pre-selected, the candidate will have to provide additional information for the selection stage consisting of:

1. Detailed scientific project including goals, methods and timeline, signed by the thesis advisor.
2. Letters of recommendation by the Doctoral school director, the host laboratory director.
3. Ethical Issues Questionnaire filled in (see Annex 3).
4. Documents providing hard evidence they fulfil the eligibility conditions (see points 2.2 and 3.2)
   Master degree, MSCA mobility standards, ESR conditions: copies of previous employments, university grades, utility bills, entry/exit stamps in passport, etc.

Once they have been short-listed, candidates are invited for an interview week. If necessary, their travel expenses are covered on a flat-rate basis by MathInParis Board in order to ensure proper conditions for the evaluation. Moreover, interviews can be done by videoconference.

During this week, preselected candidates will:

- Meet in person their prospective research team, advisor and members of the corresponding doctoral school.
- Attend a presentation of their host laboratories and of the organization of the local research. This will allow the candidates to get a better view of their prospective research environment.
- Be interviewed in French or in English, by the MathInParis Scientific Committee, on their motivation and professional career development plan. Questions are required to focus mainly on past research experiences but a significant knowledge of the project is naturally expected and will be evaluated.
4 Timetable and specific information for Call 2

4.1 Timetable

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<td>May, 13th 2019 to May, 18th 2019</td>
<td>Interviews by the COFUND MathInParis scientific committee</td>
</tr>
<tr>
<td>May, 20th 2019</td>
<td>Final results</td>
</tr>
<tr>
<td>September, 1st 2019 (or October 1st 2019)</td>
<td>Start of the three-year work contract</td>
</tr>
</tbody>
</table>

Deadline for the eligibility conditions:
MSCA mobility standards: I declare that I have not resided or carried out my main activity in France for more than 12 months in the last 3 years before the end of the call: between 1st of April 2016 and 1st of April 2019.
ESR conditions: I declare that I do not have a doctoral degree and I am in the first four years of my research careers. This means that I have obtained my Master (or equivalent degree entitling me to embark on a doctorate) in the last four years before the end of the call: after the 1st of April 2015.

4.2 Composition of committees

COFUND MathInParis Steering Committee:
1. FSMP director: Emmanuel Trélat.
2. FSMP deputy director: Muriel Livernet.
3. FSMP deputy director: Olivier Serre.

COFUND MathInParis Scientific Committee:
1. FSMP director: Emmanuel Trélat.
2. FSMP deputy director: Muriel Livernet.
3. FSMP deputy director: Olivier Serre.
4. FSMP Scientific Council member: Patricia Bouyer-Decitre
5. FSMP Steering Committee member: Antoine Chambaz
6. FSMP Scientific Council member: Indira Chatterji
7. FSMP Scientific Council member: Michael Rapoport

Complementary list of experts:
1. FSMP Steering Committee member: Olivier Biquard
2. FSMP Scientific Council member: Jean-Pierre Demailly
3. FSMP Steering Committee member: Frédéric Le Roux
4. FSMP Steering Committee member: Sandrine Péché
5 Evaluation criteria and selection procedure

5.1 General

Research in mathematical sciences requires skills, competences and hard work. These considerations will guide the selections of the COFUND MathInParis fellows as well as practical decisions. The goal is to select outstanding MathInParis students, who clearly emerge in their generation, and have a potential to perform an academic or nonacademic career at the highest level.

The MathInParis Board will take all measures to promote equal opportunities between men and women in the selection. Moreover, it will aim, to the extent possible, for a gender balance at all levels including at supervisory level.

Evaluation is based on expertise; therefore career breaks will not be an issue by themselves. Members of the committees are aware that highly innovating personalities and people with lots of potential sometimes do not have well established careers. Applicants must feel free to express any career break in their CV such as maternity/paternity leaves, job experiences, military services, humanitarian aids, and any other leaves.

The selection is organized in two phases.

1st Phase. The MathInParis Steering Committee with the head of each Doctoral Schools selects around 40 candidates on a written proposal. Director of the FSMP and the two deputy directors compose the MathInParis Steering Committee.

2nd Phase. The MathInParis Scientific Committee performs the final selection after an interview. The MathInParis Scientific Committee consists of 4 members of the international Scientific Council of FSMP and 3 members of the Steering Committee of FSMP. A secondary list of four experts (2 members of the Scientific Council of FSMP and 2 members of the Steering Committee of FSMP) is established before the end of the call. The final composition of the committee is decided once the applicants are known: experts from the secondary list may be called in case of a strong conflict of interest of an expert in the main list.

MathInParis administrative team takes care of checking the authenticity of the documents and detecting frauds. They can issue warnings to the applicants before the closing date of call, when the application is incomplete, or when documents provide insufficient information or cannot be clearly identified as official documents emanating from Higher Education establishments.

Applicants will receive a personal feedback by email at each step of the call.

5.2 Pre-selection: evaluation criteria and procedure

In the pre-selection phase the main criteria for the selection are: the quality of the candidature, the quality of the research project and the quality of the advising. Each of these items is decomposed into the following sub-criteria that are graded separately from 0 to 5.

1. Quality of the candidature:
   (a) Training and skills of the candidate.
   (b) Academic record.
   (c) Personal motivation and career plan.
   (d) Match between the research area and the candidate’s skills.

2. Quality of the research project:
   (a) State of art of the research topic.
   (b) Interest and relevance of the project within the research field.
   (c) Inter-disciplinary aspects and applications to industrial sector.
   (d) Methodology.
   (e) Expected contributions and feasibility of the project in the three years.

3. Quality of the advising:
   (a) Previous research experience of the advisor.
   (b) Number of current PhD candidates of the advisor.
   (c) Match between the candidate’s project and the advisor’s research field.
   (d) Quality of the environment.

A short list of around 40 candidates is established by the MathInParis Steering Committee (the director of FSMP and the two deputy directors) and the head (or one representative) of each Doctoral School. The number of short-listed applications depends on the size of each Doctoral School as indicated by the number of doctors graduated during the previous year.
5.3 Interviews: evaluation criteria and procedure
The MathInParis Scientific Committee interviews in French or in English the pre-selected candidates. It will evaluate the ability of the candidate to develop his/her intellectual, academic, technical, personal and professional management skills over the three years span of the contract. Candidates present their research project with the host laboratory team. Advisors are invited to attend to the presentation of their candidates.
After each audition, each member of the Committee grades individually the audition. The MathInParis Scientific Committee then gives a global grade of the interview depending on:
1. Presentation of the project (clarity, motivation).
2. Quality of the answers to the questions.

5.4 Final selection procedure
MathInParis Scientific Committee first examines the academic record of each candidate and collectively gives a grade. They main criteria are:
- Level of the previous academic career
- Motivation
- Quality of the research project
- Recommendation of the advisor
Naturally, the committee examines also pre-selection written reports on each of preselected candidates. Then, the committee takes in consideration the auditions of the candidates: the grades of the interview and of the written application are summed with weights 0.35, 0.65, and used as a guideline to produce an ordered list of laureates. A short additional list is also established in case of discontinuance. The committee will take a particular care of the geographic and scientific distribution of the laureates among the network.

A link to a special page listing all the laureates of the call will be available immediately after the selection procedure. Selected candidates are informed by email and a precise deadline will be given to answer the proposition.

Possibility of redress/appeal is given, by contacting a dedicated e-mail. A Specific Redress Board will be gathered few weeks after the end of the selection procedure to examine the cases. The files will be transmitted to the head of MathInParis Scientific Committee who will be in charge of treating the appeal and taking the decisions, after having consulted MathInParis Board in order to consider other possibilities and be able to offer alternative opportunities to the applicant.
Annex 1: Laboratories of the FSMP network

- **ASD**: Astronomie et Système Dynamiques, team of Institut de mécanique céleste et de calcul des éphémérides, (UMR 8028, CNRS, Observatoire de Paris).
- **CAMS**: Centre d'Analyse et de Mathématiques Sociales, (UMR 8557, CNRS, EHESS).
- **CAS**: Centre Automatique et systèmes, Mines Paris Tech.
- **CEREMADE**: Centre De Recherche en Mathématiques de la Décision (UMR 7534, CNRS, Université Paris-Dauphine).
- **Collège de France**.
- **DMA**: Département de Mathématiques et Applications de l'Ecole Normale Supérieure (UMR 8553, CNRS, ENS).
- **DI-ENS**: Département d'Informatique de l'Ecole Normale Supérieure (UMR 8548, CNRS, ENS).
- **IMJ-PRG**: Institut de Mathématiques de Jussieu - Paris Rive Gauche (UMR 7586, CNRS, UPMC, UP7D).
- **IRIF**: Institut de Recherche en Informatique Fondamental (UMR 8243, CNRS, UP7D).
- **LAGA**: Laboratoire de Probabilités et Modèles Aléatoires (UMR 7599, CNRS, UPMC, UP7D).
- **LJLL**: Laboratoire Jacques-Louis Lions (UMR 7598, CNRS, UPMC, UP7D).
- **LPSM**: Laboratoire de Probabilités, Statistiques et Modélisation (UMR 8001, CNRS, UPMC, UP7D).
- **MAP5**: Laboratoire de Mathématiques Appliquées à Paris 5 (UMR 8145, Université Paris Descartes).
- **SAMM**: L'Equipe de Statistique, Analyse, Modélisation Multidisciplinaire (EA 4543, Université Paris 1).
- **INRIA teams**: ALPINE, ANGE, ANTIQUE, MAMBA, CASCADE, GALLIUM, GANG, MATHRISK, MATERIALS, MOKAPLAN, PARKAS, PL.R2, PROSECCO, RAP, REO, SECRET, SERENA, SIERRA, TAPDANCE MYCENAE, QUANTIC, DYOGENE et WILLOW.
Annex 2: Doctoral School of the FSMP network

- Ecole Doctorale de Science Mathématiques de Paris Centre, Université Pierre et Mairie Curie, Université Paris-Diderot, ENS, Université Paris Descartes (ED 386).
- Ecole Doctorale de Dauphine (EDD), Université Paris-Dauphine (ED 543).
- Ecole Doctorale Galilée, Université Paris Nord (ED 146)
Annex 4: Model of the Mobility form

Long-duration stays/trips abroad undertaken by MathInParis PhD fellows

Rule concerning professional stays/trips abroad in MathInParis:
“A research visit abroad of at least two months will be mandatory. However, the cumulative duration of professional trips abroad should not exceed 12 months during the 36 months of the MathInParis PhD contract.”

MathInParis fellow:
Full Name:...........
Nationality(ies) of fellow:...........
Country(ies) of residence between April, 1st of 2016 and April, 1st of 2019:...................
Please list the country, or countries, in which you lived for extended periods of time, including the dates, relevant to the period of the mobility rule between April, 1st of 2016 and April, 1st of 2019.

Doctoral (PhD) contract
Duration of contract: 3 years;
Start date of contract:

Description of professional stay/trip (research-training activity)

Context of stay/trip:
Please explain the context in which you will be in another country, i.e., a co-tutelle, field work (“séjour sur le terrain”), other research-training activity such as courses, etc. If it is a co-tutelle, please provide the name of the second supervisor, his/her university etc.

Country of stay/trip:
Date(s):
If you foresee stays/trips in multiple countries, please list them in chronological order. You may also use the following table

<table>
<thead>
<tr>
<th>Stay/Trip</th>
<th>2019-20</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Place, Country</td>
<td>Dates</td>
<td>Place, Country</td>
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<td>Place, Country</td>
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<tr>
<td>Place, Country</td>
<td>Dates</td>
<td>Place, Country</td>
<td>Dates</td>
</tr>
</tbody>
</table>
**Justification for stay/trip**

**Title of Thesis project:** “....”

**Background and context of project (not more than a ¼ page)**

Provide a summary of your project and thus provide the background and context for the stay/trip.

**What constitutes the main part of the research (not more than a ¼ page)**

Provide the necessary details to highlight the main part of your research, being clear to indicate that the stay/trip will complement your primary research-training activity to be supervised in France. The stay/trip should not constitute the main part of your research during your three-year doctoral contract financed by MathInParis.

**Justification of professional stay/trip to... (name of place, country).....(not more than ¾ of a page)**

Following from the above explanation show that the stay/trip does not constitute the main part of your research, provide the necessary information to justify that it is nevertheless necessary to complement your research-training activities and enrich your doctoral thesis project.