PUBLIC COMPETITION FOR ADMISSION TO Ph.D. COURSES IN MATHEMATICS AND MODELING ACADEMIC YEAR 2016/2017

THE RECTOR
OF THE UNIVERSITY OF L'AQUILA

HAVING REGARD TO the law May 9, 1989 n. 168, concerning the establishment of the Ministero dell'Università e della Ricerca Scientifica e Tecnologica;

HAVING REGARD TO the law August 13, 1984 n. 476, establishing rules on university scholarships;

HAVING REGARD TO the law November 30, 1989 n. 398, establishing rules on university scholarships;

HAVING REGARD TO the article n. 4 of the law of July 3, 1998 n. 210, which provides that the universities, with their own regulation establish the Ph.D. schools;

HAVING REGARD TO the article 19 of the law of Decembre 30, 2010 n. 240;

HAVING REGARD TO to the D.P.C.M. of April 9, 2001 "Disposizioni per l'uniformità del trattamento sul diritto agli studi universitari" according to the article n. 4 of the law of December 2, 1991 n. 390;

HAVING REGARD TO D.M. n. 45 of February 8, 2013 *"Regolamento recante modalità di accreditamento delle sedi e dei corsi di dottorato e criteri per la istituzione dei corsi di dottorato da parte degli enti accreditati"*;

HAVING REGARD TO the DD. MM. 509/1999 e 270/2004 which provides rules about the didactic autonomy of Universities;

HAVING REGARD TO the rules for the admission of foreign students to the university course pubblished on MIUR web site;

HAVING REGARD TO the Regulation of the Ph.D. Schools of the University of L'Aquila;

HAVING REGARD TO the Grant Agreement N. 642768 of the Project ModCompShock;

HAVING REGARD TO the resolution of the Board of Professors of Ph.D. in Mathematics and Modeling of March 2, 2016;

HAVING REGARD TO the minutes of the Academic Senate of March 15, 2016;

HAVING REGARD TO the minutes of the Board of Administration of March 17, 2016;

HEREBY ISSUES THE FOLLOWING DECREE
ART. 1

Public competition procedures based on qualifications and examinations for admission to the Ph.D. Course in Mathematics and Modeling at the University of L'Aquila.

Ph.D. Course in Mathematics and Modeling	
Positions available	1
Financial employment	First stage researcher

UNIVERSITÀ DEGLI STUDI DELL'AQUILA
Amministrazione centrale
Area Ricerca e Trasferimento Tecnologico
Settore Dottorati, Assegni e Borse di Ricerca

Grant Funding	Project "ModCompShock- Modelling and Computation of Shocks and Interfaces"- HORIZON 2020 Actions-MSCA-ITN-2014-ETN Marie Skłodowska- Curie Innovative Training Networks, Project ID 642768
Local Project Coordinator	*Professor Donatella Donatelli* donatella.donatelli@univaq.it
Project Description	The positions are funded through the EU Marie-Sklodowska-Curie Innovative Training Network (ITN) ModCompShock. ModCompShock is focused on the training of young researchers (ESRs) in the general area of nonlinear hyperbolic and convection dominated PDEs. The research programme within this network will be centered on the development of innovative mathematical methods and computational techniques. ModCompShock provides an international and highly visible framework covering a wide range of conceptual expertise. For more information on the project and the network look at the website http://modcompshock.eu.
Candidate Profile	We are looking for candidates with strong mathematical skills and interest in nonlinear partial differential equations. Knowledge in Analysis, Numerical Analysis and Scientific Computation, Mathematical Modeling in Applied Sciences (or a combination there of) will be required. The candidate is expected to develop a theoretical and numerical Ph.D. project. A good command of written and spoken English is required.
Duration	3 years
University Department Responsible for the Ph.D. Course	Department of Engineering, Computer Science and Mathematics
Ph.D. Course Coordinator	*Professor Anna De Masi* demasi@univaq.it
Admission Pre-requisites	All Master-level Degrees or foreign degrees with certified equivalency or recognized as equivalent to the aforementioned qualifications. At the time of recruitment, the candidates must be in their first four years (full-time equivalent research experience) of their research careers and not yet have been awarded a doctoral degree. At the time of recruitment, researchers must not have resided or carried out their main activity (work, studies, etc.) in Italy for more than 12 months in the 3 years immediately prior to the reference date.
Admission Procedure	The selection will be based on the evaluation of the submitted documents and on an interview. Applicants that obtain a positive evaluation of documentation will be admitted to the interview. Foreign applicants can take the oral part of the admission exam in English. The interview may be carried out via video conference (Skype and other). In this case the candidate must specify the means he/she wish to use for their interview indicating a valid contact address.

Documents to be enclosed in the Application	1. CV
	2. The candidates must include a self-certification of their Bachelor-level and Master-level Degree with exams taken and marks obtained.
	3. Candidates enrolled in an Italian Degree Course must include:
	  • Self-certification of their Bachelor-level Degree indicating final mark and list of exams taken and marks obtained;
	  • Self-certification of the exams so far taken in their Master-level Degree course indicating marks obtained.
	4. Candidates are required to contact two professors and have them send a letter of recommendation via e-mail to dottorato_mate_mode@dm.univaq.it. Candidates must indicate the names of these two professors in their application.

	The letters must contain the following information: the role of the writer in the candidate's training and educational process together with the writer's opinion regarding the applicants overall preparation, know-how, motivation to carry out research and communicative and interactive skills. 5. Summary, max. 2 pages, of the candidate's Degree thesis 6. Additional qualifications considered appropriate for assessment 7. A photocopy of the candidates identity card if he/she requests to take the oral exam via web.
Language(s)	**Assessment of foreign language skills** English language skills and competence shall be assessed during the oral exam. **Admission** The candidate may take the oral exam in ENGLISH
Exam schedule	**Evaluation of documentation:** 31st May, 2016 at the Department of Information Engineering, Computer Science and Mathematics. **Interview:** the interview will take place between June 6th and June 10th, 2016. The candidates admitted to the interview will receive an email by the ModCompShock Project Local Coordinator with the date and the time of the interview.
Assessment Criteria	The examination procedure consists in two steps: evaluation of the submitted documents and possible admission to an interview. The candidate's scores will be indicated out of a total of 100 points attributed as follows: 1. Evaluation of documentation: Assessment of the candidate's CV, letters of recommendation, publications and other qualifications. The minimum score required for admission to an interview is 30, the maximum score is 50 points. The list of candidates admitted to the interview and the scores obtained will be posted on the Dept. DISIM web-site and on the official notice board inside the Department. 2. Interview: The interview consists in the candidate's presentation of his/her Degree thesis and of the research project to be carried out within the Ph.D. course applied for. The aim is to evaluate the candidate's aptitude and motivation for research. The test also includes assessment of the candidate's English language skills. Foreign students may give the interview in English. The minimum score needed to pass is 30 over a max of 50 points for the oral exam.

ART. 2
Requirements for Access

Candidates holding a Master-level Degree or other University Degree corresponding to criteria specified in DM – Ministerial Decree – 509/1999, or those holding a foreign Degree with certified equivalency, within the deadline of this selection announcement, may, with no limitations as to age or citizenship, apply to participate in the Ph.D. selection process.

Candidates holding a foreign Degree who have not as yet obtained certified equivalency required for the Ph.D. course they wish to apply for must include the following documents in their application:

- a copy of the obtained Degree with a transcript of the taken exams in English or in Italian ;
- any other documentation deemed useful in terms of admission (Diploma Supplement, declarations etc. . .)
and necessary for the Examination Committee to evaluate the Degree as conforming to requirements.

The selection procedure is **NOT OPEN** to candidates who have already been awarded by a doctoral degree.

The selection procedure is **NOT OPEN** to candidates that at the time of recruitment, have resided or carried out their main activity (work, studies, etc.) in Italy for more than 12 months in the 3 years immediately prior to the reference date.

ART. 3
Applications

The application, to be written according to the format included in this announcement, must be signed and must contain the applicant's mailing address selected for correspondence regarding this Ph.D. competition. **The closing date for application is May 16, 2016.** Applications arriving after this due date will be discarded.

Applications together with the requested documents may be submitted by e-mail at the following email address **concorso.dottorati@univaq.it**.
All documents must be in pdf format.

The successful candidate at the time of enrollment at the Ph.D. Course has to deliver to the office Settore Dottorati, Assegni e Borse di ricerca – Università degli Studi dell'Aquila the original copy of the application and the other submitted documents.

In the aforementioned application form, candidates must clearly state, under their own responsibility:
a) all their personal details; place and date of birth, fiscal code (or equivalent in applicant's country i.e. tax code/social security number) valid mailing address for selection procedure (please specify your ZIP code, your phone number and email address);
b) their citizenship;
c) the title of the Degree they have obtained or of the equivalent Degree obtained in a foreign university together with the date of the rector decree deeming it equivalent to the degree required for admission;
d) that they are willing to regularly attend the Ph.D. course lessons which will be scheduled by the competent Board of Professors and by the ModCompShock Network coordinator;
e) the known foreign language(s);
f) whether he/she is a foreign scholarship recipient;
g) they are / not are employed in public administration;
h) they have NOT been awarded a doctorate Degree or equivalent title;
i)   at the time of recruitment they must not have resided or carried out their main activity (work, studies, etc.) in Italy for more than 12 months in the 3 years immediately prior to the reference date;
j) that he/she will immediately notify the University of any changes in address, residency etc.;
k) that he/she is, or is not, holder of a research employment contract.

The candidate's signature is required in order for the application to be valid.

Any applications not containing declarations stating that the candidate holds the qualifications required to apply for the Ph.D. course will be discarded.

In compliance with Law n.104/1992, disabled candidates, shall indicate all necessary aids and whether additional time shall be needed to carry out the indicated examination requirements.

The University's administration shall not be held responsible in case of lack of communication/correspondence due to incorrect or imprecise indications by the applicants of their place of residence or address or late notice of any changes in address or other relevant changes taking place after their applications have been submitted; furthermore, no responsibility will be taken by the University's administration for any possible, postal/telegraph mishaps or other mishaps caused by third parties, chance or higher forces.

Candidates may request to recover the submitted documents with their applications 120 days after the selection results have been published. Candidates wishing to retrieve their documents may do so personally or request that they be mailed – postage to be paid by receiver. The request must be made within 60 days following the 120 day-period indicated above, after which all documents will be discarded.

ART. 4
Examinations

The examination procedures and the dates of the exams are indicated in art. 1.
The Candidates will receive communications about the admission, the date and the time of the interview by email from the Local Project Coordinator.

ANY CHANGES IN DATES AND TIMES WILL BE MADE PUBLIC ON THE UNIVERSITY WEB-SITE

A candidate's absence at the time and place indicated for examinations will automatically mean he/she renounces to participate at the competition.

Candidates are not required to be present during the evaluation procedure of the submitted documents.
Applicants admitted at the interview must be present on the dates and times indicated with a valid identification card.
Candidates may request to sit the oral exam in another language other than Italian (check chart for details).
The interview may be carried out via video conference communication systems (e.g. Skype). In this case, the candidate is required to provide contact information in their application and guarantee the use of a web-cam to allow the Examination Committee to verify the candidate's identity.

ART. 5
Examination Committee
Assessment Criteria and Ranking List

The Examination Committee is appointed by rectoral decree and is composed by a minimum of three to a maximum of five members among enrolled professors and assistant professors.
The candidate's scores will be indicated out of a total of 100 points.

At the end of each group of interviews the Examination Committee draws up the list of the interviewed applicants with the obtained scores.
This list, signed by the President and by the secretary of the Examination Committee will be published on the bulletin board of the department on the same day of the oral examination.

At the end of all the interviews the Examination Committee draws up the final ranking list according to the sums of the obtained scores. The University Administration makes this list public by publishing the list on the official notice board of the University and on the University web site provided, the validity of the examination procedure has been checked.

The applicants will get the Ph.D. position according to the ranking list.

In case of equal merit, the Ph.D. position will be conferred to the younger candidate.

This selection is also valid to get the employment position as first stage researcher.

ART. 6
Enrolment in Ph.D. Courses

The successful candidate, within September 5, 2016, must send the following documents using the forms available on the web-site to: Settore Dottorati, Assegni e Borse di Ricerca dell'Università – Via Giovanni Di Vincenzo 16/b – 67100 L'AQUILA:

a) enrolment application to the first year of the Ph.D. Course for the academic year 2016/2017, on certified paper "carta legale" in accordance with art. 46 and 47 of the Presidential Decree of 28 December, 2000, n-445, containing the following:
- self- certified declaration of citizenship;
- self-certified secondary (high) school Diploma;
- self-certified Degree certificate indicating final mark;
- statement declaring that the applicant is not also enrolled in a University Degree Course or a School of Specialization or any other Master-level course, university-level vocational course or other doctoral or Ph.D. course;
- statement declaring that the applicant shall, for the full duration of the Ph.D. Course, NOT ENROL in any other university course, as specified above;
- statement declaring that the applicant shall adhere to and attend all activities prescribed for the Ph.D. Course they have been selected for in accordance with the decisions taken by the Board of Professors and by the ModCompShock Network coordinator;
- statement declaring that the applicant shall ask the Board of Professors for authorization to accept, or continue to carry out, any other type of "external" work while they are enrolled in the Ph.D. Course;

b) signed photocopy of the applicant's identification document;
c) photocopy of assigned fiscal-code number;
d) photocopy of the applicant's "permesso di soggiorno", Italian-residence permit, only for no EU-citizens;
e) a passport-size photo;
f) receipt of payment of the regional university tax of €140,00 to be paid via bank transfer to: "Azienda per il Diritto agli Studi Universitari, bank account:BPER/Code or IBAN: IT 88D 053 870 3601 000 000 040 909".

Foreign citizens must declare possessing the following requisites:
1) that they benefit from civil rights and right to vote in their country;
2) that, aside from Italian citizenship, they possess all other requisites required for citizens of the Italian Republic.

Applicants holding a university Degree awarded abroad must enclose the following documents, translated and certified by competent Italian Diplomatic Authorities:
- Original copy of their university degree with its declaration of value;
- Degree transcripts indicating the exams taken during their course and marks awarded.

If the above documentation is not available at the time of enrolment, the candidate's enrolment shall be deemed "subject to verification" (con riserva). In this case all above mentioned compulsory documentation must be submitted **by and no later than 31th December 2016, failure to do so will result in expulsion from the course.**

Within 15 days from the start of the Ph.D. Course, the successful candidate must send a photocopy of a receipt from the INPS (national social security service) addressed to: Segreteria Amministrativo Contabile del Dipartimento di Ingegneria e Scienze dell'Informazione e Matematica, Università degli Studi dell'Aquila, Via Vetoio 1 – 67100 L'AQUILA, certifying that they have been registered in "posizione contributiva alla gestione separata" (for information visit the INPS web-site at www.inps.it).

False declarations lead to the candidate's expulsion from the Ph.D. course and to prescribed sanctions for such offenses, vacant positions will be assigned to other candidates according to the ranking list.

Successful candidates who do not want to enroll in the Ph.D. course they have been selected for, must immediately send a signed letter of renouncement enclosing a photocopy (front-back) of their identity card.

Candidates selected as replacements must write a letter of acceptance within three days of notification that they have been accepted. All other necessary documents indicated in this announcement must be submitted within, and no later than, ten days after receiving notification.

ART. 7
Salary amount

The Research employment contract, indicated in the Ph.D. chart (art. 2) is assigned according to the ranking list drawn up by the Examination Committee as established in the previous art. 5.

The successful candidate will receive a gross living allowance per year of € 39820,00 (including income tax and retirement pension contribution). This amount is subject to INPS (Social Security Service) contributions amounting to 31,72% for the year 2016, of which 10,57% is to be paid by the grant beneficiary.
The successful candidate will receive a total mobility allowance of € 7200,00 and a family allowance (depending on family status at the date of recruitment) of € 3000,00.

The above salary cannot be accumulated with other grants except for those provided by national or foreign institutions which are aimed at integrating the Ph.D. student's research activity with periods abroad.

The total of the living, mobility (family) allowance will be paid monthly.

ART. 8
Lessons Abroad

During the appointment the Ph.D. student has to spend time in other participating institutions through a secondment scheme, according to the Local Project Coordinator advise.

The Ph.D. student before going abroad, must sent to the Ph.D. office, *Settore Dottorati, Assegni e Borse di Ricerca,* the following documents:
* signed authorization by the course Coordinator for training/study periods abroad of less than 6 months or
* board resolution allowing a period of over 6 months;

Upon returning to Italy the Ph.D. student shall present the following document:
* certification from the foreign institution stating the Ph.D. student's attendance, signed by the course Coordinator.

ART. 9
Tuition Fees

The full tuition amounts to the required Regional university tax as specified in the art. 6.
In case of delayed payment the students has to add to the previous amount the tax of € 52.00

ART. 10
Rights and Duties

1. Ph.D. students are obliged to attend lessons and carry out all prescribed activities regularly in accordance with the programs and schedules set by the Board of Professors and according to the Coordinator of the EU-Network ModCompShock.
2. He/She will have to partecipate to the activities of the EU-Network ModCompShock as specified by the Program and/or required by the Project Coordinator and/or Supervisors, including involments in meetings, schools, workshops and training activities.
3. During the appointment the Ph.D student has to spend time in other participating institutions through a secondment scheme.
4. He/She will write up the results of research activity and present research papers and publications at meetings and conferences as advised by Supervisors.
5. The University provides insurance coverage for the entire duration of the Ph.D. course and for activities pertaining to the course.
6. Interruptions in attendance shall be allowed for, illness or injury for periods of 30 days or more.
7. Maternity/paternity leave and leave for adoption or foster care may also be authorized. Maternity-leave laws and regulations as indicated in Gazzetta Ufficiale n. 247 of 23rd October, 2007 shall be applied only to scholarship holders.
8. A Ph.D. student's unexcused absence or non-fulfillment of obligations shall result in his/her exclusion from the course by the Board of Professors.
9. Ph.D. students enrolled at the University of L'Aquila may carry out limited teaching or tutoring activities within the University's Bachelor and Master-level degree courses if so established and programmed by the Board of Professors in agreement with the University Department.

ART. 11
Graduation

The Ph.D. thesis can be written in Italian or in English and has to have an abstract in Italian or English. The Ph.D. thesis can be written in a language different form Italian or English provided the Board of Professors's authorization.

The evaluation committee for the Ph.D. thesis defence will be appointed according to the Ph.D. Courses University Rules.

The title of Doctoral degree (Dott. Ric or Ph.D.) will be awarded provided a positive evaluation of the Ph.D. thesis, taking into account the achieved results.

ART. 12
Responsabilties of the competition procedure

According to the art. 5 of the law 07/08/1990, n. 241, it is appointed responsibile of the competition procedure the Responsabile del Settore Dottorati, Assegni e Borse di ricerca – Università degli Studi dell'Aquila – Via Giovanni Di Vincenzo n. 16/b - 67100 L'Aquila.

ART. 13
Legal Reference

For all other matters not foreseen or included in this announcement we shall refer to Law n. 210 of 03/07/98, Law n. 240 of 30/12/2010, Ministerial Decree 45/2013 and to the "Regolamento dei corsi di dottorato di

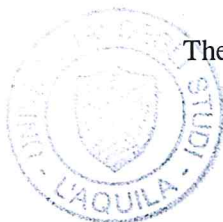ricerca" (Ph.D. regulations) of this University and to the Grant Agreement N. 642768 of the Project ModCompShock.

This announcement is available at: http://www.univaq.it/en/section.php?id=1036&lang_s=en

and may also be accessed through path: Home » Research » Research training » Research Doctorates » Announcements, assessment committees, ranking.

Further information may be requested by contacting the competent Ph.D. office:
Settore Dottorati, Assegni e Borse di Ricerca – tel. +39 0862 432062 or +39 0862 432032
e-mail: dot@strutture.univaq.it.

Further information concerning the EU Project ModCompShock may be requested by contacting the Local Project Coordinator:
Professor Donatella Donatelli – tel. +39 0862 433161.
e-mail: donatella.donatelli@univaq.it

L'Aquila ____ 0 1 APR. 2016 ____

The Rector of the University of L'Aquila
Prof.ssa Paola Inverardi

Unità Organizzativa Responsabile: Settore Dottorati, Assegni e Borse di Ricerca
Via Giovanni Di Vincenzo, 16/b – 67100 L'Aquila - e-mail dot@strutture.univaq.it – fax 0862/431214
Responsabile del Settore: Rossana Rotondi – tel. 0862/432032
Per eventuali informazioni rivolgersi a: Gabriella Marcelli – tel. 0862/432062