

# GMC Network Infosheet

March 2018



## Geometry, Mechanics and Control Network Infosheet

March 2018

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## Network's activities

### 12th International ICMAT Summer School on Geome- try, Mechanics and Control.

2–6 July 2018, Santiago de Compostela, Spain.

<http://gmcnet.webs.ull.es/?q=activity-detail/1927>

### VI Iberoamerican Meeting on Geometry, Mechanics and Control.

13–17 August 2018, Guanajuato, Mexico.

<http://gmc.eventos.cimat.mx/node/760>

## Job offers, fellowships and awards

### Ph.D. offers

#### Ph.D. students in Mathematics.

Three positions offered within any of the research topics of the department.

Stockholm University (Sweden).

**Closing date: 23 April 2018.**

<https://www.su.se/english/about/working-at-su/jobs?rmpage=job&rmjob=4914&rmlang=UK>

#### Research assistant in Mathematics.

The project will involve doing a Ph.D. on topics related to the analysis of the Einstein equations.

Imperial College London (United Kingdom).

**Closing date: 4 May 2018.**

<http://www.imperial.ac.uk/jobs/description/NAT00129/research-assistant-mathematics>

#### Doctoral candidate in the Systems Control Group.

The systems control group offers a very rich research environment, with interests such as theoretical developments of control theory (e.g. consensus), and the study of dynamical systems and theoretical developments of causal network inference.

University of Luxembourg (Luxembourg).

**Closing date: 7 May 2018.**

<http://recruitment.uni.lu/en/details.html?nPostingTargetID=19939>

### **Ph.D. positions in Mathematics.**

The focus of research will be on the mathematical analysis of problems in different areas which generically exhibit singular features or randomness.

Bielefeld University (Germany).

**Closing date: 15 May 2018.**

[https://irtg.math.uni-bielefeld.de/doctoral\\_positions/open](https://irtg.math.uni-bielefeld.de/doctoral_positions/open)

### **Ph.D. fellowship in Fundamental Mathematics.**

Research will be carried out in the fields of higher category theory and non-commutative geometry. University of Antwerp (Netherlands).

**Closing date: 15 May 2018.**

<https://www.uantwerpen.be/en/jobs/vacancies/ap/2018bapfwetef090/>

### **INdAM Doctoral programme fellowships in Mathematics.**

These fellowships offer to researchers from all over the world the opportunity to initiate their doctoral studies in Italy.

Ph.D. Schools in Italy.

**Closing date: 31 May 2018.**

<http://www.altamatematica.it/cofund-website/dp-2015/main/>

### **PhD positions in Applied Geometry.**

Candidates with a strong background in at least one of the fields of Geometric Modelling and Numerical Analysis are encouraged to apply. Expertise on Isogeometric Analysis is particularly welcome.

Institute of Applied Geometry, Johannes Kepler University (Linz, Austria).

**Closing date: Open.**

[http://www.ag.jku.at/home\\_en.htm](http://www.ag.jku.at/home_en.htm)

### **INPhINIT Doctoral fellowship program.**

3-year employment contract at any of the offered positions.

Research centres in Spain.

**Closing date: Open.**

<https://obrasociallacaixa.org/en/investigacion-y-becas/programa-de-becas-de-posgrado/inphinit/programme-description>

### **High Dimensional Geometric Algorithms.**

The student will conduct research on the subject of High Dimensional Geometric Algorithms, present the fruits of this research at top conferences and publish them in quality peer-reviewed journals of the field, culminating in a PhD thesis to be defended in public.

CWI (Amsterdam, Netherlands).

**Closing date: Open until filled.**

<http://homepages.cwi.nl/~dadush/ad/phd-position.html>

### **PhD position in Control Theory.**

The project aims to developing controllers for a physics-based model of the L-H transition in a tokamak.

NWO (Netherlands).

**Closing date: Open until filled.**

<https://www.nwo-i.nl/en/vacature/phd-position-developing-controllers-for-a-physics-based-model-of-the-l-h-transition-in-a-tokamak/>

## **Postdoctoral fellowships**

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### **Postdoctoral positions in Mathematics.**

Outstanding applications from all research areas in mathematics will be considered.

Chalmers University of Technology (Gothenburg, Sweden).

**Closing date: 3 April 2018.**

<https://www.chalmers.se/en/about-chalmers/Working-at-Chalmers/Vacancies/Pages/default.aspx?rmpage=job&rmjob=6006>

### **Postdoctoral position in Mathematics.**

Research will focus in Arithmetic Geometry, Number Theory or related areas.

University of Luxembourg (Luxembourg).

**Closing date: 15 April 2018.**

<http://recruitment.uni.lu/en/details.html?nPostingTargetID=19699>

### **Postdoctoral research fellowship in Algebra, Geometry and Topology.**

The postdoctoral researcher will participate in the project Algebraic and Topological Cycles in Tropical and Complex Geometry led by Kristin Shaw. University of Oslo (Norway).

**Closing date: 15 April 2018.**

<https://www.jobbnorge.no/en/available-jobs/job/149507/postdoctoral-research-fellowship-in-algebra-geometry-and-topology>

### **Research associate in Mathematics.**

Different research areas are available.

University of Luxembourg (Luxembourg).

**Closing date: 30 April 2018.**

<http://recruitment.uni.lu/en/details.html?nPostingID=9116&nPostingTargetID=19579>

#### **Postdoctoral position in dynamic control.**

The successful candidate will carry out mathematical and computational research in partial differential equations and their control.

DeustoTech Research Center (Bilbao, Spain).

**Closing date: 30 April 2018 or until filled.**

<http://cmc.deusto.eus/erc-advanced-grant-dycon-postdoc-contract-deustotech-201803/>

#### **Postdoctoral research assistant.**

The ideal candidate will bring a strong track record in fundamental analysis and application of control theory, distributed and centralized optimization theory and control architecture development.

Aston University (Birmingham, United Kingdom).

**Closing date: 13 May 2018.**

<https://jobs.aston.ac.uk/Vacancy.aspx?ref=R180111>

#### **Postdoctoral research associate in Computational Geometry and Topology.**

The research will involve developing, extending and applying tools related to Topological Data Analysis.

University of Liverpool (United Kingdom).

**Closing date: 14 May 2018.**

[https://recruit.liverpool.ac.uk/pls/corehrrecruit/erq\\_jobspec\\_version\\_4.display\\_form?p\\_company=1&p\\_internal\\_external=E&p\\_display\\_in\\_irish=N&p\\_process\\_type=&p\\_applicant\\_no=&p\\_form\\_profile\\_detail=&p\\_display\\_apply\\_ind=Y&p\\_recruitment\\_id=009013](https://recruit.liverpool.ac.uk/pls/corehrrecruit/erq_jobspec_version_4.display_form?p_company=1&p_internal_external=E&p_display_in_irish=N&p_process_type=&p_applicant_no=&p_form_profile_detail=&p_display_apply_ind=Y&p_recruitment_id=009013)

#### **Postdoctoral positions of InterTalentum program.**

The aim is to build particularly favorable environment to attract the most talented researchers in the four Focus Research Areas of CEI UAM+CSIC including Theoretical Physics, Computing Sciences and Mathematics.

Universidad Autónoma de Madrid (Spain).

**Closing date: 25 May 2018.**

<https://http://congresos.fuam.es/fuamcongresos/intertalentum-posdoctoral-programme/home>

#### **Postdoctoral position.**

Candidates in all areas of pure mathematics are encouraged to apply.

Johns Hopkins University (Maryland, United States).

**Closing date: Open until filled.**

<https://www.mathjobs.org/jobs/jobs/10953>

#### **Postdoctoral fellow.**

Research areas of particular interest include Algebraic Geometry, Geometry & Topology, and Partial Differential Equations.

McMaster University (Ontario, Canada).

**Closing date: Open until filled.**

<https://www.mathjobs.org/jobs/jobs/11005>

#### **Postdoctoral fellow in Pure Mathematics.**

Up to six positions in different areas, such as algebraic geometry, differential geometry or partial differential equations.

ShanghaiTech University (Shanghai, China).

**Closing date: Open until filled.**

<http://jobs.shanghaitech.edu.cn/job.asp?id=733>

#### **Humboldt research fellowship for postdoctoral researchers.**

6-24 month research programs.

Alexander von Humboldt Foundation.

**Closing date: Open.**

<https://www.humboldt-foundation.de/web/humboldt-fellowship-postdoc.html>

#### **Lisa Meitner program.**

FWF Austrian Science Fund.

Vienna (Austria).

**Closing date: Open.**

<https://www.fwf.ac.at/en/research-funding/application/>

#### **Funded postdoctoral fellowship.**

Department of Mathematics and Statistics.

University of Reading.

**Closing date: Open.**

<https://www.reading.ac.uk/math-and-stats/JobsAndFellowships/math-fellowships.aspx>

## **Offers for researchers**

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#### **Lecturer in Mathematics.**

Department of Mathematical Sciences.

University of Bath (United Kingdom).

**Closing date: 4 April 2018.**

<https://www.bath.ac.uk/jobs/Vacancy.aspx?ref=AP5607>

**Assistant Professor of Mathematics in Topology, Algebra, or Geometry.**

Department of Mathematics.  
Cleveland State University (Ohio, United States).  
**Closing date: 6 April 2018 or until filled.**  
<https://hrjobs.csuohio.edu/postings/8755>

**Associate professor of Geometry.**

Mathematical Institute.  
University of Oxford.  
**Closing date: 16 April 2018.**  
[https://www.recruit.ox.ac.uk/pls/hrisliverecruit/erq\\_jobspec\\_version\\_4.display\\_form](https://www.recruit.ox.ac.uk/pls/hrisliverecruit/erq_jobspec_version_4.display_form)

**Lecturer/Senior Lecturer in Mathematics.**

Department of Mathematics.  
University of Birmingham.  
**Closing date: 17 April 2018.**  
[https://atsv7.wcn.co.uk/search\\_engine/jobs.cgi?owner=5032521&ownertype=fair&posting\\_code=117&jcode=1717418](https://atsv7.wcn.co.uk/search_engine/jobs.cgi?owner=5032521&ownertype=fair&posting_code=117&jcode=1717418)

**Tenure-track assistant professor.**

Department of Mathematics.  
Drexel University (Philadelphia, Pennsylvania, United States).  
**Closing date: Open until filled.**  
[www.drexeljobs.com/applicants/Central?quickFind=83104](http://www.drexeljobs.com/applicants/Central?quickFind=83104)

**Assistant professor in Mathematics.**

Department of Mathematics.

Embry-Riddle Aeronautical University (Prescott, Arizona, United States).

**Closing date: Open until filled.**  
<https://embryriddle.taleo.net/careersection/002/jobdetail.ftl?job=180037>

**Faculty member in Mathematics.**

Bard High School Early College.  
Bard College (Ohio, United States).  
**Closing date: Open until filled.**  
[http://www.bard.edu/employment/descriptions/?listing\\_id=1587188](http://www.bard.edu/employment/descriptions/?listing_id=1587188)

**Mathematics adjunct instructors.**

Maseeh Department of Mathematics and Statistics.  
Portland State University (Oregon, United States).  
**Closing date: Open until filled.**  
<https://jobs.hrc.pdx.edu/postings/26062>

**Assistant professor.**

Institute for Computational and Experimental Research in Mathematics.  
Brown University (Rhode Island, United States).  
**Closing date: Open until filled.**  
<https://www.mathjobs.org/jobs/jobs/10557>

**Full-time faculty positions in Mathematics.**

Department of Mathematics.  
Koc University (Istanbul, Turkey).  
**Closing date: Open until filled.**  
<https://www.mathjobs.org/jobs/jobs/11084>

## Offers for visiting researchers

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**Propose a mini-workshop in the Mathematisches Forschungsinstitut Oberwolfach.**

Mathematisches Forschungsinstitut Oberwolfach.  
Oberwolfach, Germany.  
15–20 people on a mini-workshop for a week. Arrival is on Sunday afternoon and departure is on Saturday morning or Friday evening. Participation in a Workshop is only possible by invitation of the Director, and on suggestion of the organizers. The Institute offers accommodation free of charge. Travel expenses cannot be refunded (with the possible exception of special grants).  
**Closing date: The deadline is the end of July.**  
<https://www.mfo.de/scientific-programme/meetings/proposal-guidelines>

**SAMSI visiting research fellows.**

SAMSI invites applications from junior and senior researchers for its current and upcoming year-long

research programs.

Visiting Research Fellows can visit SAMSI for periods up to nine months in association with one of the year-long research programs. A limited amount of financial support is available to reimburse receipted expenses for accommodation and transportation. Please note that a Visiting Research Fellow must remain employed at his/her home institution. All fellows are provided with office space and have access to SAMSI's facilities.

**Closing date: Open.**  
<https://www.samsi.info/participating/visiting-research-fellows/>

**Visiting researchers at AIMS.**

African Institute for Mathematical Sciences.  
Interested researchers may apply to visit for short (2-week) or longer periods. Research fellows may

conduct their own research at AIMS, participate in the teaching programmes and give talks in the journal club. Visits to local universities can be arranged.

**Closing date:** Open.

[https://https://aims.ac.za/research/research-opportunities/](https://aims.ac.za/research/research-opportunities/)

### **Research in pairs in the Mathematisches Forschungsinstitut Oberwolfach.**

Mathematisches Forschungsinstitut Oberwolfach. Oberwolfach, Germany.

2-4 people on research stay between 2 weeks and 3 months. Required: not all participants coming from the same place. The Institute will provide office space, full board and lodging. Travel expenses can be reimbursed only in exceptional cases.

**Closing date:** Applications must be sent 6 months before planned stay.

<http://www.mfo.de/for-guest-researchers/apply-for-a-stay/apply-for-research-in-pairs>

### **Focused research groups in Banff, Canada.**

Banff International Research Station. Banff, Alberta, Canada.

Up to 8 researchers from different institutions to live and work at the BIRS facility for periods of 1 to 2 weeks. Room and meals are provided for resident members. Two dedicated discussion rooms with computer work stations are provided for the use of the group. Proposals: Should detail the area of collaboration, list the team members and their institutions, and justify the case for using BIRS.

**Closing date:** No precise deadline: a minimum of 4 months before the proposed start of the event.

<http://www.birs.ca/programs/general-program-descriptions>

### **Research in Teams in Banff, Canada.**

Banff International Research Station. Banff, Alberta, Canada.

The Research in Teams program offers teams of 2 to 4 researchers the opportunity to live and work at the BIRS facility for periods of 1 to 2 weeks, in order to concentrate on their research or to finish major projects.

**Closing date:** No precise deadline: a minimum of 4 months before the proposed start of the event.

<http://www.birs.ca/programs/general-program-descriptions>

### **Visiting the ICMAT.**

Instituto de Ciencias Matemáticas.

Madrid, Spain.

Host for researchers for a period 1 to 12 months, preferably having a research plan and a scientific connection with ICMAT researchers. Visitors will be provided with office space, working facilities and house-finding assistance. No financial support will be provided for these visits. Resolution no later than one month after submission.

**Closing date:** 2 months before the start of the desired stay.

<http://www.icmat.es/people/visitFac>

### **Research in pairs program: Centro Internazionale per la Ricerca Matematica.**

Fondazione Bruno Kessler.

Trento University, Trento, Italy.

2-3 people from Universities located in different towns, who intend to work on a definite research project from 1 to 6 weeks). Applicant partners must submit a scientific project in the field of mathematics resulting in one or more scientific publications on journals of excellent mathematical level; Participants in the RIP Program will also give occasional research seminar talks at the CIRM or at the University of Trento. Applications where one or more of the partners are Italians will of course be welcome.

**Closing date:** Applications may be sent any time.

<http://cirm.fbk.eu/research-pairs>

### **Visiting scholar opportunity in Cambridge.**

University of Cambridge.

Cambridge, UK.

Visiting scholars, fellows, associates from other institutions for development of research, teaching and collaboration.

**Closing date:** Necessary to contact one member of the academic staff to host your visit. Please allow time for your request to be considered.

<https://www.educ.cam.ac.uk/about/visiting-scholars/>

### **Visiting the CRM.**

Centre de Recerca Matemàtica.

Catalonia, Spain.

Host for researchers from at least months, having a research plan and a scientific connection with long-term CRM visitors or researchers based at a university in Catalonia. Researchers from Catalan universities can apply if they are free from teaching duties during the period of their stay at the CRM. Visitors will be provided with working facilities and house-finding assistance. Support for housing expenses can be requested. Visits should be carried out during the academic year

(from September to July). Resolutions no later than three months after submission.

**Closing date:** Applications can be submitted any time between 6 and 12 months before the start of the desired stay.

<http://www.crm.cat/en/Host/VisitingCRM/Pages/ResearchPairs.aspx>

### **Simon's fellows in Mathematics.**

Simon's Foundation.

New York City, USA.

The Simons Foundation's Mathematics and Physical Sciences division invites applications for the Simons Fellows in Mathematics program, which enables research leaves by providing time away from classroom teaching and academic administration.

**Closing date:** Open.

<https://www.simonsfoundation.org/funding/funding-opportunities/mathematics-physical-sciences/simons-fellow-program/simons-fellows->

[in-mathematics-program-description/](#)

### **Visit the Institute of Mathematical Sciences, India.**

The mathematics group at IMSc actively seeks to organize visits by research mathematicians from all over the world.

Such visits typically center around a set of formal lectures. Durations of such visits range from days to a semester or more.

**Closing date:** Open.

[https://https://www.imsc.res.in/visiting\\_mathematics](https://https://www.imsc.res.in/visiting_mathematics)

### **Visiting research fellow in Kent State University.**

Mathematics Department-KSU Ohio.

Visiting researchers at KSU.

**Closing date:** Open.

<http://www.kent.edu/globaleducation/visiting-scholars>

## **Awards**

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### **Humphreys Award.**

Award for mentorship of undergraduate women in Mathematics

**Closing date:** 30 April of the year before the year of the award.

<https://sites.google.com/site/awmmath/programs/humphreys-award>

### **Norbert Wiener Prize in Applied Mathematics.**

The Wiener Prize is awarded for an outstanding contribution to applied mathematics in the highest and broadest sense.

**Closing date:** 30 June 2018.

<https://www.ams.org/profession/prizes-awards/ams-prizes/wiener-prize>

### **Oswald Veblen Prize in Geometry.**

The award is made for a notable research work in geometry or topology that has appeared in the last six years. The work must be published in a recognized, peer-reviewed venue.

**Closing date:** 30 June 2018.

<https://www.ams.org/profession/prizes-awards/ams-prizes/veblen-prize>

### **The Abel prize.**

Awarded annually by the Norwegian Academy of Science and Letters to an outstanding mathematician. The prize is meant to recognize contributions of extraordinary depth and influence to the mathematical sciences. Such work may have

resolved fundamental problems, created powerful new techniques, introduced unifying principles or opened up major new fields of research.

**Closing date:** 15 September 2018.

<http://www.abelprize.no/c53676/artikkel/vis.html?tid=53705>

### **CRM-Fields-PIMS prize.**

The Centre de recherches mathématiques (CRM), the Fields Institute, and the Pacific Institute for the Mathematical Sciences (PIMS) invite nominations for the joint CRM-Fields-PIMS prize, awarded in recognition of exceptional research achievement in the mathematical sciences.

**Closing date:** 1 November 2018.

[http://www.crm.umontreal.ca/prix/prixCRMFieldsPIMS/prix\\_CFP\\_an.shtml](http://www.crm.umontreal.ca/prix/prixCRMFieldsPIMS/prix_CFP_an.shtml)

### **Abdus Salam Medal.**

The world Academy of Science of developing countries

**Closing date:** No precise deadline.

<http://twas.org/opportunity/abdus-salam-medal>

### **Ruth Lyttle Satter Prize in Mathematics.**

The Satter Prize recognizes an outstanding contribution to mathematics research by a woman in the previous six years.

**Closing date:** Open nominations for 2019.

<http://www.ams.org/profession/prizes-awards/ams-prizes/satter-prize>

## Financial support for research projects and conferences

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### Financial support for workshop organization.

Banff International Research Station.

**Deadline: No precise deadline but notification with months in advance.**

<http://www.birs.ca/programs/general-program-descriptions>

### Propose a workshop in the Mathematisches Forschungsinstitut Oberwolfach.

Mathematisches Forschungsinstitut Oberwolfach, Germany.

**Deadline: Open.**

<https://www.mfo.de/scientific-programme/meetings/workshop>

### The Royal Society Grants.

Fund about 1500 researchers, including approximately 600 research fellows, through grant schemes.

**Deadline: No precise deadline.**

<https://royalsociety.org/grants/>

### International Mathematical Union-Conference support program.

Commission for developing countries. This program gives partial support (max. EURO 3,500) to conferences in the mathematical sciences. The funds are for academic use only (travel or living

expenses of invited speakers or participants coming from developing countries.

**Deadline: Every 2–3 months: 1st November, 1st February, 1st April.**

<http://www.mathunion.org/cdc/grants/conference-support-program/>

### Hosting a workshop at AIMS South Africa.

AIMS South Africa will make a contribution to the cost of the workshop provided that funding is available, and that the workshop falls within one of its research focus areas.

**Deadline: No precise deadline.**

<https://www.aims.ac.za/en/research-centre/workshops-conferences/hosting-a-workshop-at-aims>

### Mathematical and physical sciences funding.

National Science Foundation.

**Deadline: No precise deadline.**

[https://www.nsf.gov/funding/pgm\\_list.jsp?org=MPS](https://www.nsf.gov/funding/pgm_list.jsp?org=MPS)

### Financial support from CICS.

Center for International Cooperation in Science.

**Deadline: Several calls.**

<http://www.cics.tn.nic.in/>

## Interesting news and publications

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### Journal of Geometric Mechanics (JGM).

Volume 10, Issue 1, 2018.

<http://aimsciences.org/journal/1941-4889/2018/10/1>

### IMU-Net 88.

March 2018.

<https://https://www.mathunion.org/imu-net/archive/2018/imu-net-088>

### ICMAT Newsletter.

16th number. First quarter 2018.

<https://www.icmat.es/outreach/newsletter/num16>

### New AIMS Journal.

New open access journal.

<http://www.aimspress.com/journal/Math>

### The GMC network.

International, spanish based network focused on Geometry, Mechanics and Control.

<http://gmcnet.webs.ull.es/>

### Reports@SCM.

Reports@SCM is a non-profit electronic research journal on Mathematics published by the Societat Catalana de Matemàtiques (SCM) which originated from the desire of helping students and young researchers in their first steps into the world of research publication.

<http://revistes.iec.cat/index.php/reports/>

### Jobs for Mathematicians.

<https://www.mathjobs.org/jobs>

### Red de organización latinoamericana de Matemáticas.

<http://www.colmatelat.ehu.es/>

### Revistas matemáticas españolas.

[http://www.rsme.es/component/option,com\\_weblinks/catid,51/Itemid,23/](http://www.rsme.es/component/option,com_weblinks/catid,51/Itemid,23/)

### Centro Internacional de Matemáticas puras y aplicadas.

<https://www.cimpa.info/>

### El árbol de las matemáticas.

Galería RSME-UNIVERSIA de matemáticas, ciencia y tecnología.

<http://www.arbolmat.com/>

### List of mathematical journals.

[http://www.rsme.es/component/option,com\\_weblinks/catid,49/Itemid,23/](http://www.rsme.es/component/option,com_weblinks/catid,49/Itemid,23/)

### Women and Mathematics.

<http://mym.rsme.es/>

### Academic positions in Spain, France and Belgium.

Mathematics and Physics related areas.

<http://postes.smai.emath.fr/postdoc/>

### Mathematics in Europe.

<http://www.mathematics-in-europe.eu/>

### Matemáticas y sus fronteras.

<http://www.madrimasd.org/blogs/matematicas/>

### Mathematics and Neuroscience.

<http://corbifoundation.org/>

### Online textbooks: MIT Open courseware.

<https://ocw.mit.edu/courses/online-textbooks/>

### Free online courses in Mathematics.

Free online courses of reputable North American Universities.

[https://www.edx.org/course?search\\_query=mathematics](https://www.edx.org/course?search_query=mathematics)

### Search of academic jobs in Mathematics in Europe.

Look for PhD, post doc positions, research assistant, etc.

<http://academicpositions.eu/>

### Search of academic jobs in Mathematics in the UK.

Look for PhD, post doc positions, research assistant, etc.

<http://www.jobs.ac.uk/categories/postdoc-jobs>

### Search of academic jobs in Mathematics worldwide.

Look for PhD, post doc positions, research assistant, etc.

<http://www.findapostdoc.com/>

### Search of academic jobs in Mathematics worldwide.

Look for PhD, post doc positions, research assistant, etc.

<https://www.postdocjobs.com/>

### Search of academic jobs in Mathematics in Spain.

Look for PhD, post doc positions, research assistant, vacant jobs, lectureships.

<http://www.madrimasd.org/madrid-ciencia-tecnologia/convocatorias>

### Search of academic jobs in Mathematics.

Look for PhD, post doc positions, research assistant, vacant jobs, lectureships.

<http://www.indeed.com/q-Postdoctoral-jobs.html>

### Advice for New Ph.D.'s.

<http://www.ams.org/profession/career-info/new-phds/new-phds>

### The American Mathematical Society bookstore.

<http://www.ams.org/bookstore/whatsnew>

## Network's members preprints and papers

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Fernando Jiménez Alburquerque and Sina Ober-Blöbaum: *A Fractional Variational Approach for Modelling Dissipative Mechanical Systems: Continuous and Discrete Settings.*

1802.10544

[math-ph, math.CA, math.MP]

Lígia Abrunheiro and Leonardo Colombo: *Lagrangian Lie subalgebroids generating dynamics*

*for second-order mechanical systems on Lie algebroids.*

1803.00059

[math-ph, math.MP, math.SG]

Alfonso Garmendia and Marco Zambon: *Hausdorff Morita Equivalence of singular foliations.*

1803.00896

[math.DG]



Álvaro Pelayo and Xiudi Tang: *Vu Ngoc's Conjecture on focus-focus singular fibers with multiple pinched points*.

1803.00998

[math.SG, math.DS]

David Martín de Diego: *Lie-Poisson integrators*.

1803.01427

[math.NA, math-ph, math.DG, math.MP, math.SG]

Tjerk Stegink, Ashish Cherukuri, Claudio De Persis, Arjan van der Schaft and Jorge Cortés: *Hybrid interconnection of iterative bidding and power network dynamics for frequency regulation and optimal dispatch*.

1803.04216

[math.OC]

Ángel Ballesteros, Rutwig Campoamor-Stursberg, Eduardo Fernández-Saiz, Francisco J. Herranz and Javier de Lucas: *A unified approach to Poisson-Hopf deformations of Lie-Hamilton systems based on  $\mathfrak{sl}(2)$* .

1803.07404

[math-ph, math.MP]

Alberto Enciso, Alejandro Luque and Daniel Peralta-Salas: *Stationary phase methods and the splitting of separatrices*.

1803.07845

[math.DS]

Dan Li and Sonia Martínez: *Online data assimilation in distributionally robust optimization*.

1803.07984

[math.OC]

Damien Bouloc, Eva Miranda and Nguyen Tien Zung: *Singular fibers of the Gelfand–Cetlin system on  $\mathfrak{u}(n)^*$* .

1803.08332

[math.SG]

A. Echeverría-Enríquez, M. C. Muñoz-Lecanda and N. Román-Roy: *Connections and jet fields*.

1803.10451

[math.DG]

Yohann Le Floch and Álvaro Pelayo: *Symplectic geometry and spectral properties of classical and quantum coupled angular momenta*.

1607.05419 (version 2)

[math-ph, math.MP, math.SG, math.SP]

Jordi Gaset and Narciso Román-Roy: *Multi-symplectic unified formalism for Einstein-Hilbert Gravity*.

1705.00569 (version 5)

[math-ph, gr-qc, hep-th, math.MP]

## Network's collaborators preprints and papers

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Damien Calaque: *Derived stacks in symplectic geometry*.

1802.09643

[math.SG, math-ph, math.HO, math.MP]

Alexey Bolsinov, Lorenzo Guglielmi and Elena Kudryavtseva: *Symplectic invariants for parabolic orbits and cusp singularities of integrable systems with two degrees of freedom*.

1802.09910

[math.SG, math.DG, math.DS]

Thierry Daudé, Niky Kamran and François Nicoleau: *A survey of non-uniqueness results for the anisotropic Calderón problem with disjoint data*.

1803.00910

[math.AP, math-ph, math.DG, math.MP]

Reuven Segev and Jędrzej Śniatycki: *Hyper-Stresses in  $k$ -Jet Field Theories*.

1803.01341

[math-ph, math.MP]

Luis Martínez Alonso and Elena Medina: *Gravitational lensing by eigenvalue distributions of random matrix models*.

1803.03424

[math-ph, math.MP]

Nguyen Tien Zung: *Convergence versus integrability in normal form, III*.

1803.04800

[math.DS]

Thomas Bruun Madsen and Andrew Swann: *Toric geometry of  $G_2$ -manifolds*.

1803.06646

[math.DG, hep-th]

Francesco Bonechi, Nicola Ciccoli, Camille Laurent-Gengoux and Ping Xu: *Shifted Poisson structures on differentiable stacks*.

1803.06685

[math.DG]

- Xiaoming Duan, Mishel George and Francesco Bullo: *Markov Chains with Maximum Return Time Entropy for Robotic Surveillance*.  
1803.07705  
[math.OC]
- Alberto S. Cattaneo, Pavel Mnev and Nicolai Reshetikhin: *Poisson sigma model and semiclassical quantization of integrable systems*.  
1803.07723  
[math-ph, hep-th, math.MP, math.SG]
- Saber Jafarpour, Elizabeth Huang and Francesco Bullo: *Synchronization of Coupled Oscillators: The Taylor Expansion of the Inverse Kuramoto Map*.  
1803.08277  
[math.OC, cs.SY, nlin.AO]
- Samir Bedrouni and David Marin: *Classification of foliations of degree three on  $\mathbb{P}_{\mathbb{C}}^2$  with a flat Legendre transform*.  
1803.08526  
[math.DS, math.CV]
- Meera Mainkar and Benjamin Schmidt: *Metric Foliations of Homogeneous Three-Spheres*.  
1803.08900  
[math.DG]
- Rong Tang, Chengming Bai, Li Guo and Yunhe Sheng: *Deformations and their controlling cohomologies of  $\mathcal{O}$ -operators*.  
1803.09287  
[math.QA, math-ph, math.KT, math.MP]
- Rui Loja Fernandes and Daan Michiels: *Associativity and Integrability*.  
1803.10412  
[math.DG]
- Simonetta Abenda and Petr G. Grinevich: *Rational degeneration of  $M$ -curves, totally positive Grassmannians and KP2-solitons*.  
1506.00563 (version 4)  
[nlin.SI, math-ph, math.MP]
- Mark Hamilton, Megumi Harada and Kiumars Kaveh: *Convergence of polarizations, toric degenerations, and Newton-Okounkov bodies*.  
1612.08981 (version 2)  
[math.SG, math.AG, math.RT]
- Elena Celledoni, Sølve Eidnes and Alexander Schmeding: *Shape analysis on homogeneous spaces: a generalised SRVT framework*.  
1704.01471 (version 3)  
[math.DG, math.NA]
- Paul Kotyczka, Bernhard Maschke and Laurent Lefèvre: *Weak Form of Stokes-Dirac Structures and Geometric Discretization of Port-Hamiltonian Systems*.  
1706.06156 (version 2)  
[math.DS, cs.SY, math.NA]
- Indranil Biswas, Oscar García-Prada and Jacques Hurtubise: *Higgs bundles, branes and Langlands duality*.  
1707.00392 (version 2)  
[math.AG, math.DG]
- Alberto S. Cattaneo and Michele Schiavina: *The reduced phase space of Palatini-Cartan-Holst theory*.  
1707.05351 (version 4)  
[math-ph, gr-qc, math.MP, math.SG]
- José Ginés Espín Buendía and Víctor Jiménez López: *A topological classification of plane polynomial systems having a globally attracting singular point*.  
1708.00245 (version 2)  
[math.CA, math.DS]
- Gijs M. Tuynman: *Super unitary representations revisited*.  
1711.00233 (version 2)  
[math.DG]
- Ernesto Pérez-Chavela, Sławomir Rybicki and Daniel Strzelecki: *Symmetric Liapunov center theorem for minimal orbit*.  
1711.03773 (version 2)  
[math.CA, math.DS]
- N. Aizawa: *Generalization of Superalgebras to Color Superalgebras and Their Representations*.  
1712.03008 (version 2)  
[math-ph, math.MP]
- Tomoki Ohsawa: *Symplectic Semiclassical Wave Packet Dynamics II: Non-Gaussian States*.  
1712.04600 (version 2)  
[math-ph, math.MP, math.SG, quant-ph]
- Federico Finkel, Artemio González-López, Iván León and Miguel Á. Rodríguez: *Thermodynamics and criticality of supersymmetric spin chains with long-range interactions*.  
1712.08536 (version 2)  
[cond-mat.stat-mech, math-ph, math.MP, nlin.SI, quant-ph]

N. Aizawa: *Verma Modules over a  $\mathbb{Z}_2 \otimes \mathbb{Z}_2$  Graded Superalgebra and Invariant Differential Equations.*

1801.02275 (version 2)

[math-ph, math.MP, math.RT]

Guoxiang Zhao and Minghui Zhu: *Pareto optimal multi-robot motion planning.*

1802.09099 (version 2)

[math.OC, cs.RO, cs.SY]

## Other Conferences

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### **Geometry Festival 2018.**

6–8 April 2018, Philadelphia, USA.

<https://hans.math.upenn.edu/geomfest2018/index.html>

### **Eastern Illinois Integrated Conference in Geometry, Dynamics, and Topology.**

6–8 April 2018, Illinois, USA.

<https://ux1.eiu.edu/~gdt/2018.html>

### **Workshop on Noncommutative Geometry and Physics: Hopf Algebras and Noncommutative Geometry.**

20–24 April 2018, Bayrischzell, Germany.

<http://hep.itp.tuwien.ac.at/~miw/bzell2018/>

### **Stochastic Control, Computational Methods, and Applications.**

7–11 May 2018, Minneapolis, MN.

<https://www.ima.umn.edu/2017-2018.5/W5.7-11.18>

### **International Conference on Mathematics and Mechanics 2018.**

15–16 May 2018, Vienna, Austria.

<http://mathematics.conference-site.com/index.html>

### **XX Geometrical Seminar.**

20–23 May 2018, Vrnjačka Banja, Serbia.

<http://euro-math-soc.eu/event/sun-20-may-18-1645/xx-geometrical-seminar>

### **GAP XVI Timisoara Lie theory and applications to mathematical physics.**

29 May–2 June 2018, Timisoara, Romania.

<http://www.geometryandphysics.org/gapxvi/?i=1>

### **XXth International Conference on Geometry, Integrability, and Quantization.**

2–7 June 2018, near Varna, Bulgaria.

<http://www.bio21.bas.bg/conference/>

### **Summer School on "Derived and Higher Structures in Geometry and Physics" SMS 2018.**

11–22 June 2018, Toronto, Canada.

<http://www.fields.utoronto.ca/activities/17-18/sms-2018>

### **Rencontre Poisson à La Rochelle.**

14–15 June 2018, La Rochelle, France.

<https://https://www.vladimir-salnikov.org/poison18/index.php?page=home&lang=en>

### **IX International Meeting on Lorentzian Geometry.**

17–24 June 2018, Warsaw, Poland.

<https://www.impan.pl/18-lorentzian9>

### **International Conference on Emerging Trends in Applied Mathematics and Mechanics 2018.**

18–22 June 2018, Krakow, Poland.

<https://sites.google.com/view/etamm2/home>

### **Modern Mathematics Methods in Physics. Diffeology, Categories and Toposes and Non-commutative Geometry Summer School.**

18–29 June 2018, Şirince, Izmir, Turkey .

<https://http://www.nesinkoyleri.org/eng/event-s-detail.php?egitimkod=203>

### **SGP – VII School on Geometry and Physics.**

25–29 June 2018, Białowieża, Poland.

<http://wgmp.uwb.edu.pl/>

### **WGMP – XXXVII Workshop on Geometric Methods in Physics.**

1–7 July 2018, Białowieża, Poland.

<http://wgmp.uwb.edu.pl/>

### **12th International ICMAT Summer School on Geometry, Mechanics and Control.**

2–6 July, 2018. Santiago de Compostela, Spain.

<http://gmcnet.webs.ull.es/?q=activity-detail1/1927>

### **16th International Geometry Symposium.**

4–7 July, 2018. Manisa, Turkey.

<http://http://16geosem.cbu.edu.tr/en/>

**The 12th AIMS Conference on Dynamical Systems, Differential Equations and Applications.**

5–9 July 2018, Taipei, Taiwan.

<http://aimsciences.org/conferences/2018/>

**The 32nd International Colloquium on Group Theoretical Methods in Physics.**

9–13 July 2018, Prague, Czech Republic.

<http://http://www.group32.cz/>

**The Sixth International Conference on Control and Optimization with Industrial Applications.**

11–13 July 2018, Baku, Azerbaijan.

<http://coia-conf.org/en/>

**Non-Hermitian Quantum Mechanics and Symplectic Geometry.**

16–20 July 2018, San José, California, USA.

<https://aimath.org/workshops/upcoming/nhquantumsymp/>

**CBMS-NSF Conference: Computational Methods in Optimal Control.**

23–27 July 2018, Jackson, Mississippi.

<http://www.siue.edu/~juliu/cbms18/>

**Modern Trends in Differential Geometry.**

23–27 July 2018, São Paulo, Brazil.

<https://www.ime.usp.br/~mtg/index.html>

**Summer Graduate School: From Symplectic Geometry to Chaos.**

23 July–3 August 2018, Berkeley, California, USA.

[http://www.msri.org/summer\\_schools/825](http://www.msri.org/summer_schools/825)

**Second Global Conference on Applied Physics, Mathematics and Computing.**

25–27 July 2018, Madrid, Spain.

<http://physicsmathcomputing.com/>

**International Congress of Mathematicians.**

1–9 August 2018, Rio de Janeiro, Brazil.

<http://www.icm2018.org/portal/en/home/>

**Hamiltonian Systems, from Topology to Applications through Analysis.**

13 August–14 December 2018, Berkeley, California, USA.

<http://www.msri.org/programs/305>

**VI Iberoamerican Meeting on Geometry, Mechanics and Control.**

13–17 August 2018, Guanajuato, Mexico.

<http://gmc.eventos.cimat.mx/node/760>

**XXVII International Fall Workshop on Geometry and Physics.**

3–7 September 2018, Sevilla, Spain.

<http://congreso.us.es/ifwgp/>

**INdAM Workshop on Poisson Geometry and Higher Structures.**

10–14 September 2018, Rome, Italy.

<http://www1.mat.uniroma1.it/ricerca/convegni/2018/hippo2018/>

**SIAM Conference on Applications of Dynamical Systems.**

19–23 May 2019, Snowbird, Utah, USA.

<http://www.siam.org/meetings/calendar.php>

**8th European Congress of Mathematics.**

5–11 July 2020, Portoroz, Slovenia.

<http://www.8ecm.si/>

**NOTE: If you want to include information in this info-sheet, please send it to [gmcnet@ull.es](mailto:gmcnet@ull.es)**