

Lettre MODE  
décembre 2017

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Envoyez vos contributions en format simple texte à  
[oana-silvia.serea@univ-perp.fr](mailto:oana-silvia.serea@univ-perp.fr).

Prière d'indiquer "pour la lettre MODE" dans l'objet.

L'inscription et la désinscription automatiques se font en écrivant à  
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Le groupe dispose désormais d'un fil d'actualité : [https://twitter.com/smai\\_mode](https://twitter.com/smai_mode)

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13- Mathematical Tapas. Volume 2 (From Undergraduate to Graduate Level). Springer (December 2017), 265 pages, author Jean-Baptiste Hiriart-Urruty

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1- PhD and postdoctoral positions at BCAM - Basque Center for Applied Mathematics

(source : J.-B. Caillaud)

For more details please see: <http://www.bcamath.org/en/research/job>

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2- Two year post-doctoral position in Analysis and PDE at Université Côte d'Azur, in the Laboratoire J.A. Dieudonné, Nice, France.

(source : J.-B. Caillaud)

ERC Starting Grant ANADEL Postdoc Contract

We offer a two year post-doctoral position in Analysis and PDE at Université Côte d'Azur, in the Laboratoire J.A. Dieudonné, Nice, France.

This position is funded by the European Research Council (ERC) Starting Grant "ANADEL - Analysis of the geometrical effects on dispersive equations". Research activities will be focused in some of the priority lines of the project, that will be identified accordingly to the candidate's profile. The project identifies many key topics :

Microlocal analysis, nonlinear PDE, hyperbolic equations on manifolds with/without boundary, dispersion, long time behavior of solutions, propagation et reflection of

singularities, diffraction phenomenon.  
The expecting starting date is September 2018, but a  
(slightly) different date may be possible.

#### Job Description

The chosen postdoctoral researcher will carry out mathematical research with excellent facilities and world-wide academic network, at LJAD Nice, France, on some of the main scientific priorities of ANADEL.

The net salary is of approximatively 2 000- 2 300 euros per month, depending on the experience.

The successful candidate will not have any teaching obligations and will have financial support for conferences and invitations. The position will be an opportunity to join an active group of researchers in this area, and will provide opportunities for collaborations.

#### Requirements

PhD thesis in Mathematics, with emphasis on PDE, Analysis and / or Control Theory.

#### How to apply

Interested candidates are welcome to send the following documents by email to [oana.ivanovici@unice.fr](mailto:oana.ivanovici@unice.fr) .  
Cover Letter, Curriculum Vitae, Publication list, Brief research proposal ( ~ one page), Contact information for two or three references

First call ends in Decembre 19th, 2017. We reserve the right to leave the positions open, to extend the application period and to consider candidates who have not submitted applications during the application period.

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3- PhD scholarships available in 2018 at RMIT University,  
Melbourne, Australia  
(source : M. Théra)

Dear Colleagues,

We will have several PhD scholarships available in 2018 associated with our ARC grant "Revisiting the interconnections between approximation theory, optimisation and semi-infinite programming for solving complex Chebyshev approximation problems," investigators Julien Ugon, Nadia Sukhorukova, Vera

Roshchina, Jean-Pierre Crouzeix, Marco López and Nira Dyn.

We target shortlisting by mid-December, and therefore we strongly encourage the candidates to contact us as soon as possible. For questions and expressions of interest please contact us via one of the following e-mails: [j.ugon@federation.edu.au](mailto:j.ugon@federation.edu.au), [nsukhorukova@swin.edu.au](mailto:nsukhorukova@swin.edu.au), [vera.roshchina@rmit.edu.au](mailto:vera.roshchina@rmit.edu.au). The applicants should attach their CVs and include the words "PhD scholarship application" in the subject. Shortlisted candidates will be asked to provide the names of at least two referees.

Please share this information with your colleagues and potential PhD applicants.

Warmest regards,  
Vera Roshchina.

Dr Vera Roshchina  
DECRA Research Fellow  
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RMIT University  
Building 8 level 9  
Tel. +61 3 9925 3161

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4- Poste PR "Mathématiques appliquées en interaction avec l'entreprise", Dijon (201  
(source : A. Cabot)

Un poste de Professeur des Universités en "Mathématiques appliquées en interaction avec l'entreprise" sera mis au concours en 26ème section à l'Université de Bourgogne-Franche-Comté lors de la session synchronisée du printemps 2018 (affectation à Dijon au 1er septembre 2018). L'IMB (Institut de mathématiques de Bourgogne, UMR 5584 du CNRS) souhaite recruter un professeur capable de développer les relations avec les entreprises, le transfert technologique et la valorisation de la recherche en mathématiques appliquées au sein du laboratoire. Les thématiques de l'institut incluent les algorithmes stochastiques, le calcul

scientifique, le contrôle, les EDO et EDP numériques, l'optimisation, les probabilités, les problèmes inverses et la statistique. En devenant le contact privilégié entre chercheurs et entreprises de la nouvelle région Bourgogne-Franche-Comté, ce professeur jouerait un rôle central dans cette mission. Un autre aspect à souligner dans ce projet de profil est l'implication attendue de ce professeur au niveau du master de mathématiques appliquées de Dijon (master MIGS).

Ce type de profil s'inscrit parfaitement dans la démarche défendue par le Labex AMIES et par le réseau national MSO (Modéliser, Simuler Optimiser) récemment inauguré. Les deux objectifs principaux d'AMIES sont :

-de proposer et de soutenir des programmes, en formation et recherche, visant à une meilleure interaction des mathématiciens avec les entreprises, notamment les petites et moyennes entreprises,

-d'offrir aux entreprises, aux chercheurs et aux étudiants une visibilité des opportunités qui existent dans ce domaine.

Ce recrutement renforcera les liens de l'IMB avec le Labex AMIES. En liaison avec le Laboratoire de Mathématiques de Besançon avec le lequel l'IMB est en train de mettre en place une Fédération de Recherche (janvier 201, ce recrutement jouera également un rôle important dans la structuration des relations math-entreprises en région Bourgogne-Franche-Comté, avec en perspective l'intégration au réseau national MSO.

AMIES apportera son soutien à ce recrutement et à cette structuration au travers des différents outils dont elle dispose.

Contact: A. Jourani, directeur de l'IMB  
([abderrahim.jourani@ubfc.fr](mailto:abderrahim.jourani@ubfc.fr))

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5- 13th INTERNATIONAL CONFERENCE on OPERATIONS RESEARCH,  
Havana, March 6-9, 2018  
(source : J.-B. Caillaud)

For details please visit: <http://rev-inv-ope.univ-paris1.fr/icor-2018-havana-cuba/>

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6- 2018 Optimization Days, HEC Montréal, May 7-9, 2018  
(source : M. Théra)

For details please visit: <https://symposia.gerad.ca/jopt2018/en/home>

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7- Second International Workshop on Bilevel Programming, INRIA  
Lille-Nord Europe, France, June 18-22, 2018  
(source : M. Théra)

For details please visit: <https://iwobip2.sciencesconf.org/>

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8- SIAM Annual Meeting (AN1, Portland, OR, July 9-13, 2018  
(source : M. Théra)

Dear Colleagues,

The SIAM Activity Group on Optimization has been asked to sponsor a set of minisymposia for the SIAM Annual Meeting (AN1, to be held in Portland, OR, July 9-13, 2018.

If you wish to organize a minisymposium, please send email to Michael Friedlander ([mpf@cs.ubc.ca](mailto:mpf@cs.ubc.ca)) with the following information by January 3, 2018:

tentative session title;

names and contact information of four confirmed speakers (the

organizer may be one of the speakers).

It's also possible to organize a collection of 3-4 posters grouped around a central theme (a "poster minisymposium"). This can have an independent theme, or can be attached to a regular lecture-based minisymposium. Guidance on submissions is available at the SIAM AN18 submission website.

Other guidance from the Annual Meeting organizers:

Minisymposium proposals are due by January 10, 2018; contributed lecture, poster and minisymposium and presentation abstracts are due by January 31, 2018.

All SIAG-sponsored minisymposium submissions should include an accessible introduction to a topic, with an emphasis on communicating across disciplinary boundaries so that non-experts can understand the topic's motivation, key issues, and impact.

Please be sure to consider the diversity of SIAM's broad membership (across academia/industry/government, geography, gender, seniority, etc.) when determining participants in SIAG-sponsored submissions.

To ensure balance, SIAM prefers that a single individual not be the organizer of more than one minisymposium. In addition, SIAM discourages minisymposia in which most of the speakers or co-authors come from the same institution.

Regards,  
Michael Friedlander  
(as Program Director for SIAM Activity Group in Optimization)

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9- VARIATIONAL ANALYSIS AND APPLICATIONS, Erice (Sicily),  
August 28-September 5, 2018  
(source : M. Théra)

We are pleased to announce that the International Workshop on VARIATIONAL ANALYSIS AND APPLICATIONS will take place at Erice (Sicily) during the period August 28-September 5, 2018 under the auspices of the International School of Mathematics G. STAMPACCHIA; the Workshop will be directed by H. Attouch, G. Buttazzo, P. Daniele, A. Maugeri.

Following earlier workshops held in Taormina in 1998, and in Erice in 1994, 2000, 2003, 2006, 2009, 2012, 2015, the Workshop aims at presenting state-of-the-art and current

research directions in variational analysis and partial differential equations and systems, fields in which Guido Stampacchia was a master. The meeting will be hosted at the «Ettore Majorana» Foundation and Centre for Scientific Culture in Erice. Variational analysis encompasses a large area of modern mathematics, including the classic calculus of variations, the theories of perturbation, approximation, subgradient, subderivatives, set convergence and variational inequalities. The workshop is dedicated to Professor Alexander Ioffe in the occasion of his 80th birthday and aims at offering a review of the results achieved in the above research themes, specifying the used methods and pointing out the open problems together with outlines of the new research trends in the principal topics of variational analysis and applications

During the opening ceremony of the International Workshop, a Gold Medal in honour of Guido Stampacchia will be assigned for the sixth time, after an international competition, to a young mathematician, whose age be not greater than 35 years at the date of December 31st 2018, for his scientific contribution in the field of Variational Analysis. All the information about the medal can be found on the web site [www.varana.org/2018](http://www.varana.org/2018). The five previous medals were awarded to:

Tristan Rivière 2003  
Giuseppe Mingione 2006  
Camillo De Lellis 2009  
Ovidiu Savin 2012  
Alessio Figalli 2015

Nominations for the medal, which should include the motivation at the basis of the nomination and a curriculum vitae of the nominee, must be sent, before March 31st, 2018, by email to [umi@dm.unibo.it](mailto:umi@dm.unibo.it) or [dipmat.umi@unibo.it](mailto:dipmat.umi@unibo.it) or by mail to

Commissione Premio Stampacchia  
Unione Matematica Italiana  
Dipartimento di Matematica  
Piazza di Porta San Donato 5  
40126 BOLOGNA (ITALY)

More detailed information will be regularly posted on the conference web site: [www.varana.org/2018](http://www.varana.org/2018).

We are looking forward to seeing you in Erice!

The Organizing Committee:

Hedy Attouch [hedy.attouch@univ-montp2.fr](mailto:hedy.attouch@univ-montp2.fr)  
Giuseppe Buttazzo [giuseppe.buttazzo@unipi.it](mailto:giuseppe.buttazzo@unipi.it)  
Patrizia Daniele [daniele@dm.unict.it](mailto:daniele@dm.unict.it)



Antonino Maugeri [maugeri@dmi.unict.it](mailto:maugeri@dmi.unict.it)

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10- The VI Latin American Workshop on Optimization and Control will take place in Quito, Ecuador, September 3-7, 2018 (source : M. Théra)

The VI Latin American Workshop on Optimization and Control will take place in Quito, Ecuador, September 3 - 7, 2018. The event is organized on a biennial basis with the main goal of boosting the development and interaction between these two scientific disciplines in Latin America, by gathering together outstanding senior and junior researchers, postdoctoral fellows and graduate students working in these fields.

The event focuses, among other, on the following topics:

- Optimal Control
- Inverse Problems
- Nonsmooth Optimization
- Control of PDEs

The first edition of this event was held in Quito, Ecuador, in July 2008, based on an initiative of researchers from the Escuela Politécnica Nacional de Ecuador and the Universidad Nacional de Rosario. The second edition was held in 2010 in Rosario, Argentina, with the same organizers. Subsequently, a third edition took place in 2012 in Valparaíso, Chile; a fourth edition in 2014 in Lima, Peru; and a fifth edition was held in 2016 in Tandil, Argentina.

An additional goal of the workshop is to increase of visibility of Optimization and Control among advanced undergraduate students (in Mathematics, Computer Science, Engineering, Physics, Economics and others).

Confirmed speakers are:

- Eduardo Casas (Universidad de Cantabria - Spain),
- Claudia Sagastizábal (UniCamp - Brazil),
- Juan Peypouquet (Universidad de Chile - Chile),
- Yboon García (IMCA - Peru),
- Pablo Lotito (Universidad Nacional del Centro de Buenos Aires - Argentina),
- Lisandro Parente (Universidad Nacional de Rosario - Argentina)
- Fredri Tröltzsch (TU Berlin - Germany).

Information and Registration:

<http://www.modemat.epn.edu.ec/lawoc2018/>

Kind regards,  
Juan Carlos De los Reyes (Organizing Committee)

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11- 4th International Conference on machine Learning,  
Optimization & Data science - LOD 2018, September 13-16, 2018,  
Volterra, Tuscany, Italy  
(source : R. Laraki)

Bonjour,

Dans un an jour pour jour débiteront les travaux du colloque  
EMF 2018 <https://emf2018.sciencesconf.org/>  
Pendant 5 jours, chercheurs, formateurs et enseignants  
échangeront et discuteront sur leurs activités diverses autour  
des mathématiques et de leur enseignement dans l'Espace  
Mathématique Francophone  
L'appel à contributions aux différents groupes de travail et  
projets spéciaux est encore ouvert jusqu'au 26 novembre 2017 :  
<https://emf2018.sciencesconf.org/resource/page/id/3>  
Au plaisir de vous accueillir nombreux le 22 octobre 2018

Maha Abboud  
Présidente du CS EMF 2018

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12- Annonces de séminaires

Une rubrique pour signaler quelques liens pour les séminaires  
ayant  
lieu ce mois-ci et organisés dans nos laboratoires. N'hésitez  
pas à  
l'alimenter, préférentiellement via un lien vers la page du  
séminaire

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Séminaire Parisien d'Optimisation (exceptionnellement : ENSCP  
01, à côté  
de l'IHP)

<http://www.ljll.math.upmc.fr/~plc/spo.html>

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Séminaire du programme PGM0, salle PGM0 (Polytechnique)

<http://www.fondation-hadamard.fr/en/pgmo/seminar>

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Groupe de Travail CalVa de Calcul de Variations (suivant les séances : université Paris-Dauphine, université Paris 6, université Paris-Sud Orsay, université Paris 7)

<https://www.ljll.math.upmc.fr/fr/seminaires/article/gdt-calcul-des-variations>

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Groupe de Travail Analyse Non-linéaire et EDP (IHP)

<http://www.math.ens.fr/~alazard/seminaire.html>

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Séminaire Pluridisciplinaire d'Optimisation de Toulouse (lieu : voir site)

<http://projects.laas.fr/spot/>

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Séminaire SAMOCOD (séminaire Avignon Montpellier Optimisation Contrôle et Dynamique)

[http://www.i3m.univ-montp2.fr/index.php?option=com\\_content&view=article&id=59&catid=19&sem=618](http://www.i3m.univ-montp2.fr/index.php?option=com_content&view=article&id=59&catid=19&sem=618)

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Séminaire hebdomadaire de l'équipe MOD de l'Université de Limoges

<https://indico.math.cnrs.fr/categoryDisplay.py?categId=36>

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Séminaire Parisien de Théorie des Jeux (IHP, salle 05, 201 ou 314)

<https://sites.google.com/site/theoriesdesjeux/>

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Séminaire de Mathématiques Discrètes, Optimisation et  
Décision, Centre  
d'Economie de la Sorbonne et Université Paris 1

<http://ces.univ-paris1.fr/membre/seminaire/MDOD/>

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Séminaire de géométrie sous-riemannienne - IHP

<http://webusers.imj-prg.fr/~davide.barilari/seminar.php>

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Séminaire de de l'équipe Statistique, Probabilités,  
Optimisation et Contrôle (SPOC) - IMB

<https://math.u-bourgogne.fr/spip.php?page=seminairespoc>

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Séminaire MDOD (Mathématiques Discrètes, Optimisation et  
Décision), Maison des Sciences Economiques, Paris

<http://ces.univ-paris1.fr/membre/seminaire/MDOD/>

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13- Mathematical Tapas. Volume 2 (From Undergraduate to  
Graduate Level). Springer (December 2017), 265 pages, author:  
Jean-Baptiste Hiriart-Urruty  
(source : J.-B. Hiriart-Urruty)

This textbook presents a collection of interesting and  
sometimes original exercises for motivated students in  
mathematics.

Written in the same spirit as Volume 1, this second volume of  
Mathematical Tapas includes carefully selected problems at the  
intersection between undergraduate and graduate level. Hints,  
answers and (sometimes) comments are presented alongside the  
222 "tapas" as well as 8 conjectures or open problems. Topics  
covered include metric, normed, Banach, inner-product and  
Hilbert spaces; differential calculus; integration; matrices;  
convexity; and optimization or variational problems.

Suitable for advanced undergraduate and graduate students in mathematics, this book aims to sharpen the reader's mathematical problem solving abilities.

