

## PERSONAL INFORMATION

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JALAL M. FADILI, Professor.

Date of birth : 7/02/1973

Address : GREYC, UMR CNRS 6072, ENSICAEN, 14050 Caen Cedex, France

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## EDUCATION AND PROFESSIONAL APPOINTMENTS

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Dec. 1999      Ph.D. computer science and applied mathematics, U. of Caen, with highest honors.  
Mar. 2010      Habilitation, U. of Caen.  
Since Oct 2011      Full Professor (computer science and applied mathematics), ENSICAEN.  
Sept 2001-2011      Associate Professor (computer science and applied mathematics), ENSICAEN.  
2000-2001      Assistant Professor Caen Institute of Technology.  
1999-2000      Research Assistant U. of Cambridge, (McDonnell Foundation fellowship).

## HONORS AND AWARDS

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2013-2018      Fellow Institut Universitaire de France (IUF).  
Since 2003      Ministry of Education premium for distinguished research activity.  
1999-2000      McDonnell Pew Fellow.

## TEACHING AND EDUCATIONAL ACTIVITIES

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Keywords : Data processing ; Applied mathematics ; Computers science.

Audience : Engineering schools, M.Sc., summer schools, national and international lecture series.

## RESEARCH INTERESTS AND SUPERVISION

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Keywords : Non-smooth optimization. Inverse problems, regularization theory. Variational methods. Mathematical data processing. Statistical learning. Reproducible research.

Supervised students : 6 post-docs, 9 Ph.D. (7 defended), Several M.Sc. students.

## RESEARCH EVALUATION AND ADVISORY ROLES

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- Oct. 2017- : policy officer in Imaging Sciences at CNRS.
- 2015-2017 : Member of the CNRS Evaluation Committee (Comité National), Section 7.
- National research evaluation (ANR, CNRS, AERES, PhD prize committees).
- 2004- : Member of selection committees (ass. and full prof) in computer science and applied mathematics at several universities in France and abroad (Saarland U., Heidelberg U., TAU, Technion).
- Reviewer, member or president of several PhD and habilitation juries in France and Europe (e.g. EPFL).
- International research evaluation : ERC, DFG (Germany), ASF (Austria), SNF (Switzerland), Conycit (Chile), Finland (Academy of Sciences), IUF jury.
- Member of IFIP TC7 "System Modeling and Optimization", WG 7.4 "Inverse Problems and Imaging".

## SCIENTIFIC COORDINATION AND ORGANIZATION

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- 2019 : Co-organizer of the thematic trimester "Mathematics of Imaging" at IHP.
- 2013-2018 : Chair of the steering committee of the SPARS conference series.
- Vice-chair IFAC international workshop ALCOSP 2013.
- General chair of of the French-German Mathematical Image Analysis Conference 2014, 2016.
- Member of scientific, program and/or steering committees of major international conferences in the field.
- Co-organizer of international workshops and conferences (e.g. Mathematics and Image Analysis 09-12).
- Co-organizer of international lecture series.
- Co-organizer of special sessions and minisymposia at major international conferences in the field.
- Jan. 2017- : coordinator of the department Digital Sciences at Normandy Univ.
- Since Dec. 2014 : Vice-Director Doctoral School SIMEM (U. of Caen).
- 2016-2017 : Director Doctoral School information sciences and mathematics (Normandy Univ).
- Since Jan. 2013 : Director of the excellence network Mathematics of Imaging and Applications.
- Jan. 2010-2013 : Scientific Vice-Director of GDR ISIS.
- 2015- : Member of the SMAI-SIGMA scientific committee.
- Member of the organizing committees of two national conferences.
- Co-organizer of the Summer School Peyresq 2011 (major french image and signal processing summer school).
- Jan. 2012- : Scientific head of the department "Pattern Recognition" within the lab.
- 2003- : Elected member of the GREYC Governing Council.
- 2006-2012 : Elected member of the scientific board of ENSICAEN.

## EDITORIAL SERVICES

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- 2019- : Associate Editor of Journal of Nonsmooth Analysis and Optimization.
- 2016- : Associate Editor of Journal of Optimization Theory and Applications.
- 2013- : Associate Editor of SIAM Journal on Imaging Sciences.
- 2015-2019 : Senior Area Associate Editor IEEE Transactions on Signal Processing.
- Guest Editor of 7 special issues in international journals (IEEE JSTSP, JMIV).
- 2009-2013 : Associate Editor of Image Processing Online ([www.ipol.im](http://www.ipol.im)).

## INVITED AND PLENARY TALKS

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- 2003- : 50 invited or plenary talks in major international conferences/workshops/summer schools of the field, including Oberwolfach, Dagstuhl, Banff, Newton Institute, CIRM, IHP, etc.

## VISITING POSITIONS

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July-Aug. 2005	Queensland University of Technology, Brisbane, Australia.
Apr.-May 2005	Stanford University, Dept. of Statistics, CA, USA.
Apr. 2006	EPFL, Biomedical Imaging Group, Lausanne, Switzerland.
Jul. 2008	Stanford University, SLAC, CA, USA.
Sept. 2008	EPFL, LTSI, Lausanne, Switzerland.
Apr. 2009	CalTech, ACM dept., CA, USA.
Nov. 2010	MIT, Dept. of mathematics, Cambridge, USA.
June 2011	EPFL, LTSI, Lausanne, Suisse.
May-June 2013	Labex CIMI, Toulouse, France.
Jul.-Aug. 2020	UCLA, Dept. of mathematics, USA.

## FUNDING AND CONTRACTS

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- Regional (3) 1 project 2001-2003, 2 projects 2017-2019.
- National (7) :
  - 2002-2005 : Co-PI of a project CNRS PICTI SDV/STIC.
  - 2007-2008 : Co-PI of a junior researcher project funded by GdR ISIS.
  - 2009-2012 : Co-PI ANR NatImages (coordinator Paris-Dauphine).
  - 2010-2012 : Member ANR Carte (coordinator Sagem).
  - 2012-2014 : Member project MAORI "Optimization in image processing" (program PGMO).
  - 2014-2019 : Member ANR GRAPHSIP (coordinator Caen).
  - 2019-2022 : Co-PI ANR FIRST (coordinator Marseille).
- European and international (6) :
  - 2003-2008 : Co-PI international project Humain Brain Project (NIH) (coordinator Cambridge).
  - 2009-2014 : Co-PI workpackages ERC advanced grant SparseAstro (PI Jean-Luc Starck).
  - 2011-2016 : Co-PI workpackages ERC starting grant SIGMA-Vision (PI Gabriel Peyré).
  - 2017-2022 : Co-PI workpackages ERC consolidated grant NORIA (PI Gabriel Peyré).
  - 2017-2020 : Local scientific coordinator of the European project H2020-MSCA-RISE NOMADS.
  - 2018-2021 : Coordinator of an ECOS-Sud program with Chile.
- Contracts with private companies (4) : 3 Institut Français du Pétrole, 1 Cifre with Sagem DS.
- Software dissemination and reproducible research (<https://fadili.users.greyc.fr/software.html>).

## PUBLICATIONS (FULL LIST [HTTPS://FADILI.USERS.GREYC.FR/PUB/BIBTEX/CONSULT.PHP](https://fadili.users.greyc.fr/pub/bibtex/consult.php))

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Type	Number
Book	2
Book chapters	7
Peer reviewed international journals	80
Peer reviewed national journals	2
Peer reviewed international conferences	91
Peer reviewed national conferences	21
h-index	46 (google-scholar).
Mostly cited paper	682 (google-scholar) et 535 (ISI Web of Science).