M. JACQUES-OLIVIER **LACHAUD**, 50 years old, widowed, 2 children

TENURED PROFESSOR of Computer Science

Laboratory of Mathematics (UMR CNRS 5127), University Savoie Mont Blanc

 $\verb|jacques-olivier.lachaud@univ-smb.fr|$

(office) +33.4.79.75.86.42

https://www.lama.univ-savoie.fr/~lachaud

Research topics: image analysis, digital geometry, digital and combinatorial topology, discrete and continuous deformable models, convergence of geometric estimators, word combinatorics, variational models, shape optimisation, discrete differential calculus, geometry processing

Curriculum

9/2007-today	Professor of Computer Science, University Savoie Mont Blanc
	Laboratory of Mathematics (LAMA, UMR CNRS 5127)
9/1999-8/2007	Associate Professor of Computer Science, University Bordeaux 1
	Laboratory of Computer Science (LaBRI, UMR CNRS 5800)
9/1998 — 8/1999	Post-doctorate , University of Toronto, Ontario. <i>Dir :</i> Demetri Terzopoulos.
	Topic: Solid modeling for craniofacial surgery simulation.
9/1994 — 8/1996	PhD student, laboratories LIP (ENS-Lyon) et TIMC (IMAG, Grenoble).
9/1997 — 8/1998	Advisor: Annick Montanvert. Obtained with highest Honors ("Félicitations").
1991–1994	ENSIMAG engineer, Master Computer Science, University J. Fourier.

Significant facts

9/2012 - 8/2013	Research position in LJK, Grenoble (délégation CNRS).
12/2006	Ability to Conduct Researches (Habilitation). University Bordeaux 1.
	Title: Non-Euclidean spaces and image analysis: riemannian and discrete
	deformable models, digital topology and geometry
10/2003 — 9/2005	Research position in LaBRI (délégation CNRS)
7/1998	PhD in Computer Science. University Joseph Fourier.
	Title: Surface extraction from three-dimensional images, discrete approach

and deformable model approach

Scientific responsabilities

1/2010-12/2016	National Leader of WorkGroup in Digital Geometry of GdR IM/IG-RV
9/2016-11/2017	Team leader LIMD, LAMA, Université Savoie Mont Blanc
1/2011-3/2014	Associate director of LAMA, Université Savoie Mont Blanc
2009-today	Member of Research Committee in Computer science (CC27), USMB.

Adiministrative responsabilities, University Savoie Mont Blanc

9/2016-today	Director of Cursus Master Ingénierie Informatique, UFR SceM.
2015-2016	Co-writer of Cursus Master Ingénierie Informatique proposal, UFR SceM.
9/2008-8/2012	Director of Computer Science departement, UFR SFA

Scientific organisations

29/3-2/4/2021	Main chair conference Digital Geometry and Discrete Variational Calculus
9/11/2015	Chair workshop Géométries Discrètes, Algorithmiques et Applications
since 2010	10 invited/keynote speaker: TMA'22, TAIR'19, BIRS'19, CVGMTA'16,
	DGCl'16,, 2 int. tutorials (SGP'21, ACPR'19), 4 tutorials DGTAL

Expert assessments, reviewing and other scientific activities

since 2016	Member of steering committee, int. conf. "Discrete Geometry for Computer
	Imagery", then "Digital Geometry and Mathematical Morphology" (since 2020)
2017, 2018, 2019	Jury member of national PhD student award from GdR IM/GdR IG-RV
2012, 2013, 2014	Jury member of national PhD student award from Gilles Kahn / SIF
since 2011	pprox15 expert assess. (ITI-IRMIA, FNRS, NSERC, ANR, FWO, HCERES,)
since 2009	Member and 2×president of 7 PR and 6 MCF recruitment committees
since 2011	Member of 7 HDR committees, 6 × rapporteur
since 2007	Member of 33 PhD committees, 14 \times rapporteur, 5 \times president
since 2007	40 reviews for int. journals (JMIV, PR, PRL, SIIMS, CVIU, DAM, CAD, etc), 55
	reviews for int. conf. (DGMM, DGCI, SIGGRAPH, IWCIA, PG, etc)

Main scientific projects (since 2007)

2/2023–1/2028	Scientific leader for LAMA of project ANR StableProxies, Stable Geometry Processing and High Perf. Calculus on Heter. Geometric Data, 551 k€
10/2015-8/2021	Principal Investigator of project ANR "Défi de tous les savoirs" CoMeDiC,
	Convergent Metrics for Digital Calculus, 473 k€
10/2018-9/2022	Member of project ANR JCJC PARADIS, PARameter-free Analysis of Digital
	Surfaces, 260 k€
9/2011-12/2015	Scientific leader for LAMA for project ANR blanc Digital Snow, Discrete
	geometry and applied mathematics for snow metamorphosis, 146 k€.
12/2010-7/2015	Member of project ANR blanc KIDICO.
1/2007-12/2010	Scientific Leader for LaBRI/LAMA of project ANR MDCA FOGRIMMI, Mining
	Large microscopic images, 62 k€
9/2006-4/2011	Scientific Leader for LaBRI/LAMA of project ANR blanc GeoDIB, Geometry
	of noisy discrete objects, 77 k€

PhD and post-doctoral research advisor

2010–2015	Research advisor for 4 post-doctorate students
2001–2022	Research advisor for 12 PhD students: 10 defended, 1 stopped for medical
	reasons, 1 on-going

Publications and software realizations

- 7 editorships of conference proceedings or special issues, book chapters
- publications in international journals (DCG, JMIV, PR, TPAMI, TVCG, CGF, C & G, SIIMS, CVIU, DAM, TCS, DM, MedIA, GMod, IVC, CGTA, IJSM)
- communications to int. conferences with reviewing committee and proceedings (DGMM/DGCI, ICPR, ACPR, IWCIA, SGP, PG, ECCV, SMI, ICIP, etc)
- since 2010 **Co-founder and big contributor** of project DGTAL, *Digital Geometry Tools and Algorithms*, a federative C++ library https://dgtal.org
 Author of 531/1680 source files, 60/130 user doc.
 - 2016 DGTALreceives the **software award** of Symposium on Geometry Processing