

# Curriculum vitae Jacques Demongeot

## Membre de l'Institut Universitaire de France (Honorary)



### Professional address:

University J. Fourier of Grenoble, Faculty of Medicine, Laboratory AGEIS EA 7407  
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### Degrees:

Ph.D.	Applied Mathematics 1975	University J. Fourier of Grenoble
M.D.	Medicine 1978	University J. Fourier of Grenoble
D.Sc.	Mathematics 1983	University J. Fourier of Grenoble
Agrégation	Medicine 1984	Ministry National Education Paris

**Professional address:** AGEIS, Faculté de Médecine de Grenoble, Université J. Fourier Grenoble, 38700 La Tronche, France, Tél. : 33-476637153, Fax : 33-476768844, e-mail : Jacques.Demongeot@agim.eu

**Academic positions:** PU-PH 1985 (PR0 2002), Directeur de TIMB, puis de TIM3, TIMC et TIMC-IMAG (UMR UJF/CNRS 5525) de 1984 à 2010 ; Responsable du Département d'Information Médicale, puis du Pôle de Santé Publique depuis 1990; Membre Senior de l'Institut Universitaire de France (IUF) de 1994 à 2004, puis membre honoraire (chaire of Biomathématiques) ; Responsable du Programme "Technologies pour la Santé" au Ministère de la Recherche et de la Technologie (1997-2001) ; Chef de la Mission « Biologie des Systèmes et Complexité » au CNRS (2003-2008) ; Directeur Adjoint du LIA franco-japonais ReaDilab (2007-2014) ; Directeur Adjoint d'AGIM (FRE UJF/CNRS 3405) (2010-2015); Professeur émérite UGA (Université Grenoble Alpes) (2016-)

**Membre (past or present) of Scientific Boards:** CIMES (Président 1994-1998), CNU 46-04 (Président 1994-2000), Eur. Soc. for Mathematical & Theoretical Biology (President 1998-2000), Société Francophone de Biologie Théorique (Président 2006-2014)

**EC Project Leader :** Biomed ISCAMI (Integrated System for Computer Aided Medical Interventions), BMH MDMO (Matching of Deformable Medical Objects), Alfa IPECA

**Distinctions :** 1989 "Victoires de la Médecine" (Medecine Victories, Natl Prize) for pioneering work in Computer Assisted Surgery (CAS), Prize "Informativité 90" (01 Informatique), Trophée National de l'Innovation 2001, Officier des Palmes Académiques, Foreign Member of the Chilean Academy of Sciences, Membre étranger des Alumni de l'Académie Royale de Belgique, Fellow International Academy of Medical & Biological Engineering (IAMBE)

**Number of Ph-D students:** 88

**Number of postdocs:** 12

**Number of papers (Google Scholar):** 453; **number of citations (Google Scholar):** 6650; **h-index (Google Scholar):** 39

**Number of (collective) books:** 15

**Number of patents:** 20

**Member of the Council of Scientific Societies:** Société Française de Biologie Théorique (SFBT) (President 2007-); European Society for Mathematical and Theoretical Biology (ESMTB) (Founder Member and President 2002-2004)

## References

### International Journals (since 2016)

**1 – J. DEMONGEOT, A. HAMIE, A. LAKSACI & M. RACHDI**

Relative-Error Prediction in Nonparametric Functional Statistics: Theory and Practice. *Journal of Multivariate Analysis*, **146**, 261-268 (2016).

**2 – J. DEMONGEOT, A. LAKSACI, A. NACERI & M. RACHDI**

Estimation locale linéaire de la fonction de régression pour des variables hilbertiennes. *Comptes Rendus Mathématique*, **354**, 847-850 (2016).

**3 – M. BANERJEE, J. DEMONGEOT & V. VOLPERT**

Global Regulation of Individual Decision Making.  
*Mathematical Methods in the Applied Sciences*, **39**, 4428-4436 (2016).

**213 - B. TROJAOLA ZAPIRAIN , F. CARMINATI, M.A. GONZALES TORRES, G. DE MENDIVIL, C. FOUASSIER, M. GEX-FABRY, F. MARTIN, J. LABARERE, J. DEMONGEOT, E.N. LORINCZ & G. GALLI CARMINATI**  
Comparison of the Evolution and Entropy of Responses to Picture Choices on an “Absurdum Questionnaire” between Members of Two Different Training Groups.  
*NeuroQuantology*, **14**, 501-513 (2016).

**4 - J. DEMONGEOT, A. ELENA, M. JELASSI, S. BEN MILED, N. BELLAMINE BEN SAOUD & C. TARAMASCO**  
Smart homes: data fusion for preventive and therapy education at home; example of type II diabetes.  
*Information*, **7**, 50 (2016).

**5 – J. DEMONGEOT & H. HAZGUI**  
The Poitiers school of mathematical and theoretical biology: Besson-Gavaudan-Schützenberger’s conjectures on genetic code and RNA structures.  
*Acta Biotheoretica*, **64**, 403-426 (2016).

**6 – F. CARAGUEL, N. BESSONOV, J. DEMONGEOT, D. DHOUILLY & V. VOLPERT**  
Wound healing modelling in Zebrafish.  
*Acta Biotheoretica*, **64**, 343-358 (2016).

**7 – J. DEMONGEOT, A. LONTOS & E. PROMAYON**  
Discrete mesh approach in morphogenesis modelling: the example of gastrulation.  
*Acta Biotheoretica*, **64**, 427-446 (2016).

**8 - J. DEMONGEOT, A. LAKSACI, A. NACERI & M. RACHDI**  
Local linear regression modelization when all variables are curves.  
*Statistics and Probability Letters*, **121**, 37-44 (2017).

**9 - C. TARAMASCO, K. FIGUEROA & J. DEMONGEOT**  
Estimation of life expectancy of patients diagnosed with the most common cancers in the Valparaiso Region.  
*ecancermedicalscience* **11**, 713 (2017). DOI: 10.3332/ecancer.2017.713

**10 – J. DEMONGEOT & S. SENE**  
Phase transitions in stochastic non-linear threshold Boolean automata networks on  $\square^2$ : the boundary impact.  
*Adv. Appl. Math.* (accepted).

**11 – J. DEMONGEOT, M. JELASSI & C. TARAMASCO**  
From Susceptibility to Frailty in social networks: the case of obesity.  
*Math. Pop. Studies* (accepted).

**12 - B. ALTENDJI, J. DEMONGEOT, A. LAKSACI & M. RACHDI**  
Functional data analysis: Estimation of the relative error in functional regression under random left-truncation.  
*J. NonParametric Statistics* (accepted).