

Fabien Gouyon, Ph.D.

Senior research scientist and co-leader of the Sound and Music Computing Group, INESC Porto, Portugal
Invited Assistant Professor, Faculty of Engineering, University of Porto, Portugal

INESC Porto,
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Profile

Over ten years of scientific research in audio and music data/metadata processing and application to music management and distribution systems — strong commitment to pluridisciplinary research — solid experience in team leadership and coordination and redaction of R&D project proposals — strong record of scientific publications, production of efficient software — scientific supervision of researchers at post-graduate level.

Professional Experience

INESC Porto, Portugal — 2007-Present

Senior research scientist
Co-leader of the Sound and Music Computing Group

Faculty of Engineering, University of Porto, Portugal — 2010-Present

Invited Assistant Professor

Portuguese Catholic University, Porto, Portugal — 2008-Present

Invited Lecturer to the Doctoral degree in Computer Music

Barcelona Music and Audio Technologies, S.L., Barcelona, Spain — 2005-2007

Co-founder, Consultant

Austrian Research Institute for AI, Vienna, Austria — 2005-2007

Post-doc researcher

Pompeu Fabra University, Barcelona, Spain — 2000-2005

Researcher

Pompeu Fabra University, Barcelona, Spain — 2000-2005

Teaching Assistant in audio signal processing and Physics for the Engineering Diploma in Computer Systems

Sony Computer Science Lab, Paris, France — 2000

Researcher

Stanford's Center for Computer Research in Music and Acoustics, USA — 1999

Visiting Researcher

Institut de Recherche en Informatique de Toulouse, France — 1998

Assistant Researcher

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Education

Pompeu Fabra University, Barcelona, Spain — Ph.D. in Computer Science and Digital Communication, *Summa Cum Laude*, 2005

Pompeu Fabra University, Barcelona, Spain — Diploma of Advanced Studies in Computer Science and Digital Communication, 2003

IRCAM, Paris, France — Master in Acoustics, Signal processing and Computer Science Applied to Music, 2000

ENSEEIH, Toulouse, France — Master in Signal Processing, 1999

Paul Sabatier University, Toulouse, France — Graduation in Physics, 1998

Skills

Signal Processing, Pattern Recognition, Sound and Music Processing

Publications

 [all statistics from Google Scholar, November 2010]

1 book, and 50+ refereed publications in international journals, book chapters and referred conference proceedings (available on the web or on request).

Total number of citations by peers: **1000+**

h-index: **18** ; cites/year: 85 ; cites/paper: 19

Selected publications (most cited):

- Gouyon, F. Klapuri, A. Dixon, S. Alonso, M. Tzanetakis, G. Uhle, C. Cano, P. "An experimental comparison of audio tempo induction algorithms." IEEE Transactions on Audio, Speech and Language Processing 14(5), pp. 1832-1844, 2006. [Cites: **91**]
- Gouyon, F. Dixon, S. "A review of automatic rhythm description systems." Computer Music Journal 29(1), pp.34-54, 2005. [Cites: **80**]
- Herrera, P. Yeterian, A. Gouyon, F. "Automatic classification of drum sounds: a comparison of feature selection methods and classification techniques." Second International Conference on Music and Artificial Intelligence, 2002 [Cites: **75**]
- Dixon, S. Gouyon, F. Widmer, G. "Towards Characterisation of Music via Rhythmic Patterns. Fifth International Conference on Music Information Retrieval, 2004. [Cites: **69**]
- Gouyon, F. Dixon, S. Pampalk, E. Widmer, G. "Evaluating rhythmic descriptors for musical genre classification." Proceedings of 25th International AES Conference, 2004 [Cites: **58**]

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Scientific services

Reviewer for IEEE Transactions on Audio, Speech and Language Processing; IEEE Transactions on Signal Processing; IEEE Journal of Selected Topics in Signal Processing; Machine Learning Journal; Music Perception; Computer Music Journal; Journal of New Music Research; EURASIP Journal on Applied Signal Processing; EURASIP Journal on Audio, Speech, and Music Processing; Animal Cognition; International Journal on Human-Computer Studies; Intelligent Data Analysis; and several international conferences.

General Chair and Scientific Programme co-chair of the Sound and Music Computing Conference, Porto, Portugal, 2009. (200+ attendees)

Co-organiser of the Workshop on Robots and Musical Expression at IEEE/RSJ International Conference on Intelligent Robots and Systems, Taipei, Taiwan, 2010

Tutorial Chair of the International Conference on Music Information Retrieval, Vienna, Austria, 2007.

Co-organiser of the Workshop on Multidisciplinary approaches to the understanding of music cognition, Barcelona, Spain, 2005

Co-organiser of the first International Audio Description Contest (International Conference on Music Information Retrieval -ISMIR 2004), Barcelona, Spain, 2004.

Member of the Scientific and Programme Committees of 20+ international conferences.

Invited talks in Austria, France, Portugal, Spain, Germany and Brasil.

Miscellaneous

IEEE and IEEE Signal Processing Society member, member of the Audio Engineering Society Technical Committee on Semantic Audio Analysis, Portuguese Delegate on the Management Committee of the COST IC0601 Action on Sonic Interaction Design.

Obtained public grants in France (1999) and Spain (2000-2005, 2003) for studies and visiting researcher actions.

Theory and classical guitar with Professor Robert Mari in Toulouse, France, 1984-1997.

French native language, fluent in English, Spanish and Portuguese; some knowledge of Catalan and German.

Referrals

Simon Dixon, Associate Professor, Queen Mary University of London, UK.

Xavier Serra, Associate Professor, Pompeu Fabra University, Barcelona, Spain.

Gerhard Widmer, Professor, Johannes Kepler University, Linz, Austria.

Peter Desain, Professor, Nijmegen Institute for Cognition and Information, Nijmegen, The Netherlands.

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