

Curriculum Vitae – Gaël RICHARD

French

Born on 14th June, 1965

Current Position:

**Full professor in signal processing at TELECOM ParisTech (formerly ENST)
Head of the Audio, Acoustics and Waves research group**

- ***Position and Responsibilities***

- Head of the « Audio, Acoustics and Optical Waves » research group (2005 -)
- Head of the Institut TELECOM project « Audiosig » since (2005 -)
- Elected member of the LTCI/CNRS research lab council (2006 -)
- Member of Teaching council of Telecom ParisTech (2005 -)
- Member of the Signal and Image department council (2005 -)

- ***Evaluation/Reviewing/Editing activities***

- Associate Editor of the *IEEE Transactions on Audio, Speech and Language Processing* (2007 - 2011)
- Member of the *IEEE Audio and Acoustic Signal Processing* Technical Committee (2010-)
- Guest-Editor of the special issue on “Music Signal Processing” of *IEEE Journal on Selected Topics in Signal Processing* (2010-2011)
- Member of the Evaluation and Selection committee for the French National Research Agency for the CONTINT Programme (2010 -)
- Expert for the European Commission (regular reviews for the European Commission in FP5, FP6 and FP7 programmes)
- Reviewer for journals (*IEEE Trans. on Signal Processing, IEEE trans. on Multimedia, Speech Communication, Journal of New Music Research, ...*) and conferences (ICASSP, CBMI, ISMIR, GRETSI, NIPS,...)
- Conference committee member of IWAENC06, CBMI, ISMIR,...
- PhD committees in France and Europe (England, Germany, Portugal, Denmark, Finland)
- Senior member of the IEEE, member of the EURASIP and AES, former member of ISCA

- ***Research***

- Main research interests :
 - ✓ Audio/speech signals representations and models
 - ✓ Segmentation, indexing and compression of audio signals
 - ✓ Automatic transcription of music signals
- PhD thesis supervision/co-supervision : 15 defended since 2005 (*2006: ParisTech PhD prize for R. Badeau thesis; 2010 GdR-Isis/EEA/GRETSI prize for N. Bertin*) ; 7 currently in PhD programme.
- National and international project involvement and Public funding-seeking (e.g. Network of Excellence IST-K-Space, 3Dlife, OSEO-QUAERO, ANR-Dream, ACI musicdiscover, ...).
- Collaborations with Industry (RTL, Thalès, France Telecom R&D) and Academia (LAM, IRCAM, Centrale Lyon, Queen Mary Univ., Technical university Berlin,...)
- Invited conference Keynote talks (DRMN+2; JIM2010)
- Over 120 publications (including 36 Journal papers, 6 book chapters, and 3 Conference Best paper Awards), 5 patents.
- **Citation statistics** (source: Harzing’s Publish&Perish, May 2012)
- **h-index : 25 ; g-index : 36**

- **Teaching**
 - Responsible of two courses at Telecom ParisTech (Audio and speech processing; compression)
 - Responsible of a course in the Master MVA – ENS Cachan (Audio and Acoustics)
 - Responsible of a course in the Master IAD- University ParisVI (Audio and speech indexing)
 - Responsible of student internships in signal processing
 - Teaching about 80 h/year in digital signal processing (from Bachelor to Master levels)
 - Life-long learning: lectures in speech and audio signal processing.
 - Involved in the working group on a teaching sector “*by apprentissage*”

PREVIOUS POSITIONS

2001 - 2005 : Assistant Professor in signal processing at TELECOM ParisTech (ENST)

Sept. 2000 - Sept 2001: Software project leader at Philips France (division PCC)

- Speech recognition project leader for all mobile communication products of Philips.

January 1997 - July 2000 : Project leader at Matra Nortel Communications and then L&H (France)

- Research and development in audio coding, biometric identification (face + voice)
- Coordination of large scale national and European projects
- Standardisation (ETSI (WB-AMR), ISO (MPEG-4 Audio))

1994-1996 Post-Doc and then Assistant Research Professor at the Center for Computer Aids for Industrial Productivity (CAIP center), USA, under the supervision of Pr. James Flanagan.

- Research on speech production based on fluid dynamics principles (NSF/ARPA contract with Lucent - Bell Labs and General Dynamics).
- Research on very low bit rate speech coding (ARPA contract “*HyperComputing & Design*”)

1990-1994 Ph.D student at LIMSI-CNRS, University Paris-Sud on speech synthesis under the supervision of Dr. d’Alessandro.

1989-1990 Master internship at the Royal Institute of Technology of Stockholm on singing voice synthesis. Supervision Dr. S. Ternström

EDUCATION

Sept. 2001 « **Habilitation à Diriger des Recherches** », University Paris-Sud, Orsay.

April 1994 Ph. D in Computer Sciences of University Paris-Sud, Orsay

June 1990 Engineer degree of Télécom ParisTech.

June 1988 Maîtrise (equiv. Master) in Electronics of University Paris-Sud, Orsay.

LANGUAGES

English: fluent (*955 at TOEIC*).

German, Spanish, Swedish: notions.