Curriculum Vitae Jan CORNELIS

(last revision: 7 August 2026)

PERSONAL INFORMATION

Jan Cornelis

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https://www.etrovub.be/people/member/about-bio/jpcornel/

Sex Male | Date of birth 17/10/1950 | Nationality Belgium

EMPLOYMENT HISTORY - Summary

- 1973: assistant at VUB - co-creation of the new Department of Electronics (VUB-ETRO). Biomedical signal processing as major research interest

- 1981: postdoctoral researcher in the Cardiology Department of the academic hospital (UZ Jette)

- 1983: fulltime professor, with various teaching duties in electronics, design of electronic circuits, digital image processing, medical imaging and security statistics

- 1982-2008: Head of Department ETRO - Electronics and Informatics at VUB - Belgium

- 1982-2017: Research Group Coordinator -VUB- IRIS Belgium- research group on multidimensional signal processing and data analytics

- 2001-2008: Vicerector Research and Development - VUB – Belgium

- 2008-2009: Deputy Head of Cabinet – Ministry of research and innovation Flanders-Brussels

- 2009-2012: Academic Coordinator Knowledge and Technology Transfer- VUB- Belgium

- 2012-2016: Vicerector International Policy- VUB - Belgium

- 2016-2023: Professor emeritus with a part time research appointment (Deep learning and Applications)

- 2024-now: Voluntary scientific collaborator

RESEARCH

- Author or co-author of ~ 635 international publications in journals and conference proceedings (https://orcid.org/0000-0002-1180-1968), promoter of 27 successful PhDs and (co)inventor in 4 patents.

- Successive research subjects: biomedical engineering, electronics, electronic circuit design, digital image processing, data science and applications, early breast cancer detection, deep learning, AI impact on university governance, universitypolicies on innovation and knowledge transfer,

- Member of several conference program committees, reviewer at FWO and FNRS and foreign science agencies, as well as reviewer for several international (e.g. IEEE) journals. Co-editor of the Journal “Sensors” (MDPI).

- From 01.03.1995 till 30.09.2004: scientific collaborator in the department "Systèmes Logiques et Numériques" of ULB (Université Libre de Bruxelles)

EXTRA RESEARCH MANAGEMENT POSITIONS

- VIB: member of the BoD (2004-2009) - Flanders Institute for Biotechnology

- IMEC: member of the BoD and later governmental deputy - Belgium (1990-2016)- Interuniversity strategic research centre on nanotechnology and ICT systems.

- iMinds: member of the BoD, Remuneration Committee, Strategic Committee (2010-2016) - Interuniversity strategic research centre on ICT and society.

-KMI-IRM, Royal Meteorological Institute – Belgium, Member of the scientific advisory board– now chairman of scientific advisory board since September 2017 till now.

ADDITIONAL EDUCATION & EDUCATION MANAGEMENT EXPERIENCE

- VECO (Vesalius College) – (2013-2016), member of the board of directors.

- BDA (Brussels Diplomatic Academy) co-initiator and chairman of the steering committee (2012-2016), advisor (https://brusselsdiplomaticacademy.eu/).

- Professor Invitado - Universidad de Oriente – Santiago de Cuba, (2017 till now).

-Consultant professor at the North-Western Polytechnic University, Xi’an – China (1999 till now).

-Chairman of the commission on international policy of VLIR - Flemish Interuniversity Council (2014-2017)

SUPPLEMENTARY MANAGEMENT AND COORDINATION POSITIONS

- ICAB NV, co-initiator and member of the board of directors (2010-2023) - incubator of start-up companies: https://icab-brussel.be/ .

- Qbic Fund, Qbic I co-initiator and member of the board of directors (2012-now) first interuniversity venture capital fund for spin-offs in Belgium https://www.qbic.be/portfolio .

- BI3 fund incubation fund of VUB (2002-2009), closed end fund, initiator and Chairman of the board directors

- BACES, Brussels Academy for China European Studies, co-initiator and chairman of the governance committee (2014-2016) university network on contemporary China studies (VUB, Fudan University, Renmin University of China, Sichuan University, Sofia University, Lancaster University, University of Gent), and member of the academic board

- Confucius Institute VUB co-initiator and chairman of the board of Directors https://www.vub.ac.be/en/confucius/ncil (2014-2017).

-Within the ETRO department: coordination of the technology transfer activities till end 2015. Practical experience with spin off creation: Exia, Softkinetic-Optrima, UD, Aquantis, Ecqologic.

ACCREDITATION EXPERIENCE

- Expert NVAO (Accreditation Organisation for the Netherlands and Flanders) – in Belgium – 4 program evaluations as panel member and as chairman (2014-2018)

- Expert NVAO in the Netherlands- 1 institutional accreditation (2013-2014)

- Expert NVAO in the Netherlands – 1 institutional accreditation (2008)

- Accreditation procedures in other countries: ANQA – Armenia (2014), Osjijek-Croatia (2013) as international expert

- Independent audit of the research and knowledge/technology transfer management of the University of Vienna – chairman of the external panel.

- "Specific feature" accreditation NVAO (entrepreneurship) in 4 HE institutes in the Netherlands and Belgium – chairman of the panel (2014-2015)

- Conflict resolution panel (NVAO) concerning program evaluation in 2 HE institutes (2011)

MEDIATION

- EMPTJ Certificate: Mediation training of AIA in 2017

PROFESSIONAL TRAJECTORY-MORE IN DETAIL

2016-now	**Emeritus Professor**
	VUB Pleinlaan 2, 1050 Brussel – Belgium (Dept. ETRO - Electronics and Informatics)
	• Research interests: Deep Learning and Applications, Image Processing, Digital Signal Processing, Medical data analysis. Diagnostic Decision Support Systems, Medical imaging, ICT. • Co-Editor of "Sensors" published by MDPI (in 2025: IF 4.0) • Supervision of PhD and Master students • Member of the LEAD Academic Network on university governance and leadership. Teacher in several successive MOOCs. Main modules: university research, innovation and valorisation management; Digital Academic Leadership, in particular AI impact, policy and university governance • Member of the Board of directors of the Qbic interuniversity VC fund • Chairman of the Scientific Advisory Board of the Royal Meteorological Institute of Belgium • Program and Institutional Audits for CTI - Commission des Titres d'Ingénieur (CTI), France– international expert • Member of the General Assembly of UCOS, a nonprofit organisation- University Centre for Development Collaboration • On a regular basis, reviewing work - research projects and international journal publications, grants. • EMPTJ Certificate: Mediation training of AIA in 2017 • Amateur writer of fiction books
	ICT and data analysis research, innovation. technology & knowledge transfer, university governance and leadership

2012-2016	**Vicerector International Policy**
	VUB Pleinlaan 2, 1050 Brussel – Belgium (Dept. ETRO - Electronics and Informatics)
	• Institutional International agreements. • International educational and curriculum models • Financing models for international courses • International partnerships • International joint research groups • Incoming and outgoing mobility • Internationalisation@Home • Erasmus and EU Programs & Policy • Double and joint diploma's • Development cooperation (EU- Erasmus, Regional Level - VLIR, federal level) • Knowledge and technology transfer on an international scale • Chairman of the Flemish interuniversity commission on internationalisation • Co-founder of Alef -VUB (Arabic Language Courses as a tool for identity building and integration independent of religion), Brussels Diplomatic Academy
	University governance

2009-2012	**Academic Coordinator Knowledge and Technology Transfer**
	VUB Pleinlaan 2, 1050 Brussel (Dept. R&D)
	• Academic supervision and coaching of all services of the technology transfer office • Launching of the first interuniversity VC fund, in Flanders-Brussels, Qbic; setting up of the incubator, ICAB NV • Consolidation and professionalisation of all technology transfer functions

	• Coaching of technology transfer cases – spin offs
	Technology Transfer

2008-2009	Deputy Head of Cabinet – Ministry of research and innovation
	Flemish Government
	• Conception and writing of the 5-year plan for research and innovation • Budget re-structuring • Legislative proposals (research centres, science communication, Imec extension investment, …) • Research centres • Restructuring of the expertise centre for data analysis in research and innovation and economy • Liaison with European policy
	Flemish government

2001-2008	Vicerector Research and Development
	VUB Pleinlaan 2, 1050 Brussel (Dept. R&D)
	• Chairman of VUB research council • Launching of the industrial research fund - IRF (industrial policy of VUB and university-industry interaction) • Launching of the first university VC fund at VUB (BI3 for spin-offs) and chairman of the board • Launching and structuring of Crosstalks since 2003: the transdisciplinary and intersectoral platform for knowledge exchange between academia and society through lectures, book publications, debates, residencies, exhibitions and networking activities. • Concept of flexible research groups • Multilevel project evaluation system • Transdisciplinary research funding channel • Collaboration in the design of the new financing model in Flanders for higher education • Structuring technology transfer office. • Strategic alliance with UGent university • Member of the board of directors of IMEC, VIB, iMinds
	University governance and leadership

1982-2017:	Research Group Coordinator -
	VUB Pleinlaan 2, 1050 Brussel (IRIS - research group on multidimensional signal processing and data analytics).
	• Coordination of a research group of ~ 60 FTE • Own research on image compression and data representation • Diverse application fields in medicine, remote sensing, industrial inspection, landmine detection and clearance, … • Structuring of the innovation funnel from new idea to good idea (with valorisation plan)
	Research and research management

1982-2007:	Head of Department ETRO.
	VUB - Pleinlaan 2, B1050 Brussel (Dept. Electronics and Informatics) - Belgium
	• Researcher and teacher • Coordination of the department (research, education, teaching and technology transfer)

	• Group size in 2007 ~ 100 FTE; turn over ~ 5 Meuro
	University Department coordination

1983-2016	Fulltime professor,.
	VUB - Pleinlaan 2, B1050 Brussel (Dept. Electronics and Informatics) - Belgium
	• Various teaching duties in design of electronic circuits, digital image processing, medical imaging and security statistics
	Teaching and research

1981-1983	Postdoctoral researcher in the Cardiology Department of the academic hospital (UZ Jette).
	UZ Laarbeeklaan 101, 1090 **Jette – cardiology department (unit Hart)**
	• Research on diagnostic functions • Research on Body Surface Potential mapping and inverse problems • Exercise ECG • PhD supervision
	Electrocardiology research and modelling

1969-1980	Educational trajectory
	VUB
	• MS degree in Electronics and Electro-mechanics from the Vrije Universiteit Brussel (VUB) -1973 • PhD degree in Applied Sciences in 1980 (maxima cum laude 1980
	Study process

LANGUAGE AND COMMUNICATION SKILLS

Mother tongue(s) Nederlands (Dutch)

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C2	C1
Francais	C2	C2	C2	C2	C1
German	B1	B1	B1	B1	-

Communication skills	Both formal and informal communication skills at all levels, going from central (regional, federal and EU) government level, university governance level, faculty and departmental level up to individual researchers and logistic, administrative and technical personnel) within the academic context (acquired by active involvement at all activity and decisional levels) – see "Work experience" Good contacts with industry and research institutes and diverse societal stakeholders through the tech transfer activities and my personal research. Multicultural empathy increased by the international nature of my research and the Vicerector international policy function (including developing countries in Africa and Asia primarily). Skill: capacity to motivate people.