

PERSONAL INFORMATION

Jan Cornelis



📍 Struivislaan, 18 - B 3090 Overijse

☎ +3226292930 📠 +32476245656

✉ jpcornel@etrovub.be

<http://www.etrovub.be/>

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

WORK EXPERIENCE

2016-now

Emeritus Professor with a part time research appointment

VUB Pleinlaan 2, 1050 Brussel – Belgium (Depts. ETRO Electronics and Informatics and IRO International Relations)

- Research on Data Analysis, Deep learning, Image Processing, Diagnostic Decision Support Systems, Medical imaging
- Co-Editor of “Sensors”
- Supervision of PhD students and Master students
- Capacity building project on university governance and leadership (LEAD Erasmus+) expert – China and EU
- Capacity building project on Knowledge and Technology Transfer (VETEC) expert – Vietnam
- MOOC modules on university research, innovation and valorisation management – teacher
- Academic attaché of CIDIC (Diplomatic non-profit organisation)
- Senior advisor of the Brussels Diplomatic Academy - economic diplomacy
- Member of the Board of directors of the Qbic1 interuniversity VC fund
- Member of the Strategic committee of the Qbic2 interuniversity VC fund
- Member of the scientific advisory board of the Brussels Academy for China European Studies
- Chairman of the Scientific Advisory Board of the Royal Meteorological Institute of Belgium
- Course and Institutional audits for CTI – international expert

ICT and data analysis research, technology and knowledge transfer, university management

2012-2016

Vicerektor International Policy

VUB Pleinlaan 9, 1050 Brussel (Dept. IRO International Relations)

- Institutional international agreements
- International educational and curriculum models
- Financing models for international courses
- International partnerships
- International joint research groups
- Internationalisation@Home
- Development cooperation (EU, regional level - VLIR, federal level)
- Chairman of the Flemish interuniversity commission on Internationalisation
- Knowledge and technology transfer on an international scale

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 Qbic1 interuniversity VC fund, 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 the research council
- Launching of the industrial research fund (own policy on university-industry interaction)
- Launching of the first university VC fund (BI3 for spin-offs) and chairman of the board
- Concept of flexible research groups
- Multilevel project evaluation system
- Transdisciplinary research funding channel
- Collaboration to the new financing model in Flanders for higher education
- Structuring technology transfer office.
- Strategic alliance with UGent university

[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

Business or sector Replace with type of business or sector

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

1973-1981 **Assistant at VUB - co-creation the new Department of Electronics (VUB-ETRO).**

VUB - Pleinlaan 2, B1050 Brussel (Dept. Electronics) - Belgium

- Microprocessor controlled instrumentation
- Biomedical instrumentation
- Electronic circuit design
- Co-creation of the new Department of Electronics: building and equipping the electronics laboratory
- Biomedical signal processing as major research interest

Electronics and electronic system design

EDUCATION

1973

MS degree in Electronics and Electro-mechanics from the Vrije Universiteit Brussel (VUB)

1980

PhD degree in Applied Sciences in 1980 (maxima cum laude)

PERSONAL 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	<ul style="list-style-type: none"> • 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.
Organisational / managerial skills	<ul style="list-style-type: none"> • Leadership and organisation at various levels: PhD students, research group, department, university, and in several other organisations – see professional experience. • <p>Extra educational management experience and experience with quality assessment</p> <ul style="list-style-type: none"> - VECO (Vesalius College) – (2013-2016), member of the board of directors (https://www.vesalius.edu/vesalius-college/mission-statement/) - restructuring after negative accreditation - BDA (Brussels Diplomatic Academy) co-initiator and chairman of the steering committee (2012-2016), now senior 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) <p>Extra skills in management of other organisation than the university</p> <ul style="list-style-type: none"> • -Chairman of the commission on international policy of VLIR - Flemish Interuniversity Council (2014-2017) - ICAB NV, co-initiator and member of the board of directors (2010-now) incubator of start-up companies http://www.icabrusse.be/fr/home - Qbic Fund, co-initiator and member of the board of directors (2012-now) first interuniversity venture capital fund for spin-offs in Belgium http://qbic.be/ - Qbic 2 Fund, „interuniversity incubation fund, member of the strategic committee (2016-now) - B13 fund incubation fund of VUB (2002-2009), 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, Bucharest university, Deakin university) and member of the academic board (2014-now) http://www.baces.be/ - Confucius Institute VUB (2015-2016) co-initiator and chairman of the board of Directors https://www.vub.ac.be/en/confucius/
Job-related skills	<p>Expertise in accreditation and quality assurance</p> <ul style="list-style-type: none"> - Expert NVAO (Accreditation Organisation for the Netherlands and Flanders) – in Belgium – 4 program evaluations as panel member and 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), Osijek-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) - Several internal audits within VUB - since 2019 international expert for CTI (engineering training and education)
Digital skills	<p>Daily environment: WORD, PowerPoint, Excel,...</p> <p>Usual communication tools: Skype, WeChat, WhatsApp, Outlook</p> <ul style="list-style-type: none"> • Occasionally (passive) usage of programming languages. • In early career : assembler, microprogramming, Fortran, Pascal, C
Driving licence	B

ADDITIONAL INFORMATION

Publications	- Author or co-author of more than 500 international publications in journals and conference proceedings, promoter of 27 PhDs and (co)inventor in 4 patents.
Presentations	
Projects	- Successive research subjects: biomedical engineering, electronic circuit design, digital image processing, data science.
Conferences	
Seminars	- 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.
Honours and awards	
Memberships	- From 01.03.1995 till 30.09.2004: scientific collaborator in the department "Systèmes Logiques et Numériques" of ULB (Université Libre de Bruxelles)
References	
Citations	
Courses	
Certifications	Extra university research management experience: <ul style="list-style-type: none">- 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 of Belgium, Member of the scientific advisory board– now chairman of scientific advisory board since September 2017 till now.