Europass Curriculum Vitae

Personal Information

Surname, First Names	**Maijala, Panu Petteri**
Address	Metsästäjäntie 8, FI-36200 Kangasala, Finland
Mobile	+358 40 546 8354
Email	<FirstName>@<LastName>.fi
Website	https://www.maijala.fi/panu
ORCID ID	0000-0002-7127-9745
LinkedIn	http://fi.linkedin.com/in/PanuMaijala
ResearchGate	http://www.researchgate.net/profile/Panu_Maijala
Skype	Panu.Maijala
Nationality	Finnish
Date of Birth	21 November 1970
Gender	male
Marital Status	married since 1992, 5 children aged 12, 16, 22, 24, and 26 years

Work Experience

October 2020 ⟶ Present

Senior Specialist, Acoustics

Patria Aviation Oy

Naval systems, underwater acoustics

September 2001 ⟶ January 2018

Special teacher (visiting lecturer)

Tampere University of Technology

Lecturer: Basic course in acoustics, Measurements in acoustics

August 1999 ⟶ October 2020

Research scientist, project manager

VTT Technical Research Centre of Finland LTD

Diverse expertise in many areas of industrial acoustics and noise engineering, management of innovation process, and project management.

August 1996 ⟶ May 1999

Research assistant

Helsinki University of Technology

Working in many areas of acoustics and noise engineering: mobile work machines, cabin acoustics, acoustical material measurements, psychoacoustics, underwater acoustics, room acoustics, binaural technology, speech technology, and programming of digital signal processors.

June 1994 ⟶ June 1995

Work manager

ABB Industry Oy

Production management work in the line of electro-mechanical components.

June 1993 ⟶ August 1993

CAD engineer

ABB Industry Oy

Design of electro-mechanical components.

June 1992 ⟶ August 1992

Mechanic

ABB Drives Power Electronics

Assembly of electro-mechanical components.

Education

1999 ⟶ 2014 **Doctor of Science (Technology)**

Thesis: A Measurement-based Statistical Model to Evaluate Uncertainty in Long-range Noise Assessments, Tampere University of Technology.

1989 ⟶ 1999 **Master of Science (Technology)**

Thesis: Binaural system for evaluation of sound quality, Helsinki University of Technology.

1986 ⟶ 1989 **Diploma of Music Academy**

Major subject: piano. Minor subjects: voicing, counterpoint, and trumpet, Kuopio Conservatoire.

Training

2006 ⟶ 2007 **Industrial Innovation Management programme**

Programme executed by VTT and Industry. Personal assignments and case studies, personal mentors, participants' working groups and altogether 32 seminar days: innovations as a strategic choice, portfolio management, market creation, technology venturing, internal & external entrepreneurship (a nine day Seminar in the San Francisco Bay Area), leadership in innovation, creative teams and tools, boosting the fuzzy front end, road mapping, foresight and scenario work innovating in and for Asia.

2007 **Advanced course in leadership**

Two intensive training periods with practising with several cases. Lecture topics included deeplead (http://www.deeplead.com/en, Dr Harri Kulmala, FIMECC) and leadership in an expert organization (prof Mika Hannula, Tampere University of Technology).

1999 ⟶ 2006 **Other professional training**

Dozens of courses organized by the employer: project management, expert sales skills, EU training, designing quiet structures, hall acoustics, IPR rights etc.

Key Positions of Trust and Memberships

2019 ⟶ Present International Year of Sound 2020, **member of the Coordinating Committee**.

2019 ⟶ Present Acoustical Society of Finland, **President**.

2018 ⟶ Present Kangasala Reserve Officers, **Chairman of the Board**.

2017 ⟶ Present Pirkanmaa District Reserve Officers, **member of the Board**.

2016 ⟶ Present The Scientific Advisory Board for Defence (MATINE) Tampere, **member of the Board**.

2015 ⟶ 2018 Acoustical Society of Finland, **member of the Board**.

2012 ⟶ Present Confederation of European Aerospace Societies (CEAS) Aeroacoustics Specialists' Committee (ASC), **co-opted member**.

2015 ⟶ Present European Commission expert, expert candidature number: EX2015D259502.

2010 ⟶ 2012 Confederation of European Aerospace Societies (CEAS) Aeroacoustics Specialists' Committee (ASC), **member**.

2010 ⟶ Present Finnish Society of Aeronautical Engineers (FSAE), **member**.

2010 ⟶ 2011 European Commission, Joint Research Centre (JRC), Common Noise Assessment Methods in EU (CNOSSOS-EU) Technical Committee **member**; Working Group 5: Industrial noise and sound propagation **expert**.

2006 ⟶ Present European Defence Agency (EDA), CapTech IAP02/B06.08/.09 and ESM.03/A11.05, **member**.

2005 ⟶ Present Kangasala Reserve Officers, **member of the Board**.

2001	**Member** of Nordtest Guideline Preparation Group: Measurements and Judgments of Sound in relation to Human Sound Perception.
1996 ⟶ Present	Acoustical Society of Finland, **member**.
1996 ⟶ 2007	Audio Engineering Society, **member**.
1990 ⟶ Present	Reserve Officers' Federation, **member**.

Teaching

1999 ⟶ 2020	**Lecturer**, dozens of courses for the employer's (VTT) in-house training, as well as direct customer commissions, e.g. Valmet Competence Days 2001, Finnish Port Association 2006, Finnish Food and Drink Industries' Federation 2009, and many national seminars for the Ministry of the Environment 2006–2011.
2012 ⟶ 2018 (6 course implementations)	**Responsible teacher** for course on *Basic course on acoustics* (code ASE-7450, extent 4 cr), Tampere University of Technology
2012 ⟶ 2018 (6 course implementations)	**Responsible teacher** for course on *Measurements in acoustics* (code ASE-7460, extent 4 cr), Tampere University of Technology
2001 ⟶ 2011 (11 course implementations)	**Responsible teacher** for course on *Acoustical measurements* (years 2001-2004 course code 750600, 2005-2006 code MIT-5510, 2007-2011 code MIT-5511, extent 7 cr), Tampere University of Technology
2012	Course on *Abatement of environmental noise*, **lecturer, member of the planning group**, AEL, Helsinki.
2009	Course on *Abatement of noise in industry and machine design*, **lecturer, member of the planning group**, AEL, Vantaa.
2007	Course on *Noise of the machines and abatement of noise*, **lecturer, member of the planning group**, AEL, Turku.
2005	Course on *Machinery acoustics and noise control*, **lecturer, member of the planning group**, AEL, Turku.
2003	Course on *Machinery acoustics and noise control*, **lecturer, member of the planning group**, AEL, Helsinki.
2003	Course on *Acoustical materials and usage in noise control*, **lecturer**, Edutech, Tampere.
2002	Course on *The basics of machinery and industrial acoustics*, **lecturer, member of the planning group**, AEL, Tampere.
2002	Course on *Design of acoustics in audio technology*, **lecturer, member of the planning group**, Edutech, Tampere. *"Edutech: Best lecturer feedback ever!"*
2002	Insko seminar on *Acoustical measurements*, **lecturer and chair, member of the planning group**, AEL, Espoo.
2001	Course II on *Audio technology*, **lecturer, member of the planning group**, Edutech, Tampere.
2001	Course I on *Audio technology*, **lecturer, member of the planning group**, Edutech, Tampere.
2000	Course on *Electroacoustics*, **lecturer, member of the planning group**, AEL, Helsinki.
1998	Course on *Machinery acoustics*, **lecturer**, Helsinki University of Technology, Espoo.

Supervision, instruction, and evaluation

2021	**Doctoral thesis evaluation, reviewer**, appointed by University of Oulu.
2019 ⟶ 2021	**Doctoral thesis supervisor and inspector**, appointed by University of Turku.
2017	**MSc thesis supervisor and inspector**, appointed by Tampere University of Technology.
2015	**Doctoral thesis evaluation, reviewer**, appointed by Lappeenranta University of Technology.

2014	**Evaluation of candidate thesis**, appointed by Tampere University of Technology.
2013	**Evaluation of thesis ASE-7116 Project Study in Automation Science and Engineering**, appointed by Tampere University of Technology.
2004	**MSc thesis supervisor**, appointed by Helsinki University of Technology.
2001 ⟶ Present	**Supervision of over 200 acoustics laboratory thesis.**

Scientific and societal impact

1996 ⟶ present	**Organizer or a member of the organizing committee** in several international and national conferences and seminars. **Reviewer** for several journal and conference papers, Elsevier Reviewer Recognition 2018.
Total number of publications	1 book (editor and the leading writer), 7 parts of a book, and 1 textbook.
	77 publications in the areas of psychoacoustics and environmental noise.
Source (author ID), citations, index	Scholar: 317 citations (57 publications), *h* index = 7
	RG Score: 11.41, 214.2 Research Interest, 226 Citations, 76 Publications, 9564 Reads
Most cited publications	Maijala, P., Shuyang, Z., Heittola, T., Virtanen, T. 2018. Environmental Noise Monitoring Using Source Classification in Sensors. Applied Acoustics 129 (1), 258-267. **Cited by 89**, ref. Scholar.
	Niskanen, A., Hassel, J., Tikander, M., Maijala, P., Grönberg, L., and Helistö, P. Suspended Metal Wire Array as a Thermoacoustic Sound Source. Applied Physics Letter 95, 16 (2009), 163102–1–3. **Cited by 86**, ref. Scholar.

Media visibility

30 April 2021	**Print media/Internet**: an interview about my research on wind turbine infrasound for an article in a Norwegian magazine (Teknisk Ukeblad).
22 June 2020	**Print media**: an interview about my research on wind turbine sound for an article in a newspaper (Raahen Seutu-lehti).
22 June 2020	**Print media**: an interview about my research on wind turbine sound for an article in a newspaper (Kurikka-lehti).
22 April 2020	**Print media**: an interview about my research on wind turbine sound for an article in a newspaper (Kalajokilaakso-lehti).
21 April 2020	**TV**: an interview about my research on wind turbine sound in YLE Uutiset main news.
21 April 2020	**Print media**: an interview about my research on wind turbine sound for an article in a newspaper (Etelä-Suomen Sanomat).
18 April 2020	**Internet**: an interview about my research on wind turbine sound for an article YLE Uutiset www pages.
8 October 2019	**Print media**: an interview about my research on wind turbine sound for an article in a newspaper (Tervareitti).
7 August 2019	**Print media**: an interview about my research on wind turbine sound for an article in a newspaper (Kalajokilaakso-lehti).
6 June 2019	**Print media**: an interview about my research on wind turbine sound for an article in a newspaper (Kurikka-lehti).
29 May 2019	**Radio**: I was featured in the YLE Uutiset newscast, an interview about my research on wind turbine sound.
23 April 2019	**Internet**: an interview about my research on wind turbine sound for an article in YLE Uutiset www pages.
20 March 2019	**Print media**: an interview about my research on wind turbine sound for an article in a newspaper (Ilmajoki-lehti).
1 February 2019	**Print media**: an interview about my research on wind turbine sound for an article in a newspaper (Ilkka).

1 February 2019	**Print media**: an interview about my research on wind turbine sound for an article in a newspaper (Pohjalainen).
24 January 2019	**Print media**: an interview about my research on wind turbine sound for an article in a newspaper (Kurikka-lehti).
4 June 2018	**Print media**: Promotions and rewards (the Medal for Military Merits), an article in a newspaper (Aamulehti).
18 August 2017	**Print media**: an interview about my research on infrasound for an article in a newspaper (Salon Seudun Sanomat).
17 January 2014	**Print media**: an interview for an article about my dissertation in the leading national technology and business media (Tekniikka ja talous).
17 January 2014	**Print media**: an interview for an article about my dissertation in a local newspaper (Kangasalan Sanomat).
3 January 2014	**TV**: I was featured in the YLE Uutiset newscast, an interview about the effects of weather on noise propagation.
3 January 2014	**Radio**: I was featured in the YLE Uutiset newscast, an interview about the effects of weather on noise propagation.
2 October 2005	**TV**: I was featured in the MTV3 lead newscast, an interview about my research on sound propagation in Finnish Lapland.
25 February 2005	**Print media**: an interview about my research on sound propagation for an article in a local newspaper (Lapin Kansa).

The most important acquired funding (own share more than 4 person months)

In total almost 170 person months approx.	>2 900 000 €
2018 ⟶ 2020	Project WTSANNOYANCE; own share 4,5 person months (over 20 person months in total); financier Government's analysis, assessment and research activities (VNK, VN-TEAS); Topic *'Wind Turbine Sound, Its Physiological Effects, Annoyance, and Association with Diseases'*; role responsible leader.
2018 ⟶ 2020	Project PSSS; own share 4,2 person months; financier: other domestic public sector and Government Grant); Topic *'Piloting Smart Sound Sensors*; roles project manager and principal scientist.
2013 ⟶ 2014	Project AKU2; own share 18 person months; financier the Finnish Funding Agency for Innovation (TEKES, TUTLI programme); Topic *'Acoustic reconnaissance and surveillance system'*; roles project manager and principal scientist.
2006 ⟶ 2009	Project EFFORTS; own share 68 person months; jointly funded EU project; topic *'Effective operations in ports'*; role principal scientist.
2003 ⟶ 2005	Project ATMOSAKU; own share 21 person months; financier Finnish Defence Forces; topic *'Development of a sound propagation modeling software'*; roles project manager and principal scientist. *"VTT: excellent customer feedback, bonus 2005."*
2003	Project AKUKYTKY; own share 10 person months; financier Finnish Defence Forces; topic *'Coupling of Acoustic Energy with Buildings'*; roles project manager and principal scientist.
2002	Project HYDRO2; own share 4 person months; financier MATINE; topic *'Development of a Fiber Optic Hydrophone'*; roles project manager and principal scientist.
2002	Project MITÄEMA; own share 7 person months; financier Finnish Defence Forces; topic *'Development of an acoustical surveillance system'*; roles project manager and principal scientist.
2001	Project ÄLMOKE; own share 8 person months; financiers MATINE and Finnish Defence Forces; topic *'Deployment and Evaluation of a Piece of Sound Propagation Modeling Software'*; roles project manager and principal scientist.

2000 Project AKUSTI; own share 8 person months; financier Finnish Defence Forces; topic *'Novel Acoustical Sensors'*; roles project manager and principal scientist. *"VTT: a great start, bonus 2000."*

1998 Project PMATINE; own share 11 person months; financier MATINE; topic *'Evaluation of Binaural Technology in Hydro-Acoustic Surveillance Systems'*; role research scientist.

Personal Skills and Competences

Social Skills and Competences

- My primary mode of living is focused externally. I love the energy and potential that team work can achieve. Everyone has something good and it just has to be found. I respect everyone's right to be unique and if it serves the final outcome, I let them do things their own way.
- I've been married almost 30 years, taking over all the storms and joys it has given to me. Part of the greatest joys are my five children, three of them are already adults, one 16 years old princess, and a cute 12 years old boy.
- I appreciate the friendship and I have received a lot of good friends through my many social hobbies. I'm involved in activities of many associations, I sing in a choir, and I'm playing piano, trumpet, violin, flute, and saxophone in a couple of bands. I used to play water polo and I had the honor to be involved in the team, which won the Finnish Championship.
- I have the individual side also: one of my favourite hobbies has been triathlon, however, I like to practice with friends. This sport suits me, because I usually never give up: once I wrecked in the race and the bike was bent, and the helmet was torn. But, ignoring the bleeding, I managed to reach the finish line. One of my personal mottos is: I always do what I promise, as long as the suffering relates only to myself.
- I need some pressure, to achieve my best results, but I appreciate a systematic way of doing — this is mandatory, as I always have dozens of tasks progressing at the same time.
- Some of my friends call me "Sunshine", perhaps because of my positive optimistic nature; some others call me "MacGyver" as I'm often able to solve all technical issues — I like to help others and a large part of my spare time goes in volunteering.
- I've been tested for MBTI: it is closest to ENFJ.

Organizational Skills and Competences

- I have successfully carried out hundreds of projects varying from management of house building and organizing a rock festival to military projects with extremely precise schedule and a very careful risk management.
- I have been training my leading and managements skills in the board work of several associations and also in military rehearsals. My military rank is Captain and I have been awarded several times, e.g. Knight of the Order of the Lion of Finland (SL R, 2020), the Medal for Military Merits (Sot.am., 2018), the Gold Medal of Merit of the Reserve Officers' Federation (RUL am., 2015), and the Iron Medal of Merit of the National Defense Training Association (MPK r am.,2020).

Mother Tongue **Finnish**

Other Languages

Self-Assessment European Level(*)	Understanding		Speaking		Writing
	Listening	Reading	Spoken Interaction	Spoken Production	
English	C2 Proficient User	C2 Proficient User	C2 Proficient User	C2 Proficient User	C2 Proficient User
Swedish	B2 Independent User	C1 Proficient User	B1 Independent User	B1 Independent User	C1 Proficient User
French	A2 Basic User	B1 Independent User	A2 Basic User	A1 Basic User	B1 Independent User
German	A2 Basic User	B1 Independent User	A2 Basic User	A1 Basic User	B1 Independent User

(*) *Common European Framework of Reference (CEF) Level*