July 2025

Lieven Vandersypen - Curriculum Vitae

Date/place of birth	September 19, 1972; Leuven (Belgium)
Citizenship	Belgian
Address	QuTech and Kavli Institute of Nanoscience Delft University of Technology Lorentzweg 1, 2628 CJ Delft, Netherlands l.m.k.vandersypen@tudelft.nl http://qutech.nl/vandersypen-lab

Education

1997-2001	PhD in Electrical Engineering, Stanford University, CA, USA (advisors I.L. Chuang and J.S. Harris)
1996-1997	MSc in Electrical Engineering, Stanford University, CA, USA
1991-1996	MSc in Mechanical Engineering, KU Leuven, Belgium (fourth year in Zaragoza, Spain, with Erasmus)

Current position

2007 –	Antoni van Leeuwenhoek Professor, Kavli Institute of Nanoscience, Delft University of Technology, the Netherlands

Previous positions

2015 – 2020	Research Scientist, Intel Corporation (20% appointment)
2015	Visiting Fellow at UNSW Sydney, Australia, 12 Jan – 11 June 2015
2010	Visiting Scientist at the Research Laboratory for Electronics, MIT, Boston, MA, USA, 20 March – 2 Aug 2010
2006 – 2007	Associate Professor, Kavli Institute of Nanoscience, FOM/TU Delft
2003 – 2006	Assistant Professor (tenure-track), Kavli Institute of Nanoscience, FOM/TU Delft
2001 – 2003	Postdoc with L.P. Kouwenhoven, Kavli Institute of Nanoscience, TU Delft
1997 – 2001	PhD student, Dept. of Electrical Engineering, Stanford University, Stanford, CA, USA
2001	Research Associate, IBM Almaden Research Center, San Jose, CA, USA
1998 – 2000	Summer preprofessional co-op, IBM Almaden Research Center, San Jose, CA

Main institutional responsibilities

2025 –	Chief Scientist, QuTech, TU Delft
2020-2024	Director Research of QuTech (institute of ~300 people)
2016-2020	Co-Director Kavli Institute of Nanoscience Delft
2014-2020	Member of the Management team and Roadmap leader QuTech
2013	Cofounder of QuTech
2012-2015	Head Quantum Transport Section (~80 people)
2005-2009	Chair of the Faculty meeting of the Dept. of Nanoscience at TU Delft

Honors, Awards

2024	Member of the Royal Netherlands Academy of Arts and Sciences (KNAW)
2024	Outstanding Referee of the Americal Physical Society
2022	Fellow American Physical Society
2021	Spinoza Award (highest scientific honour in the Netherlands)
2020	Jan Van Vessem Award of the Intl. Solid-State Circuits Conference
2012 –	Member of the Royal Holland Society of Sciences and Humanities (KHMW)
2009	Teacher of the Year, TU Delft Applied Physics program
2008	Nicholas Kurti European Science Prize
2008	IUPAP Young Scientist Prize for Semiconductor Physics
2007-2012	Member of “The Young Academy” of the KNAW
1997-2001	Yansouni Family Stanford Graduate Fellowship
1996-1997	Franqui Fellowship Belgian-American Educational Foundation

Plenary talks at major international conferences

2009 The 21st Intl. Conf. on Electronic Properties of Two-Dimensional Systems (EP2DS) and the 17th Intl. Conf. on Modulated Semiconductor Structures (MSS), Kobe, Japan
2009 Intl. Conf. on the Physics of Semiconductors (ICPS-29) (prize lecture), Rio de Janeiro, Brazil
2017 The 64th Intl. Solid-State Circuits Conference (ISSCC), San Francisco, CA, USA
2023 2023 IEEE International Symposium on Circuits and Systems, Monterrey, CA, USA
2025 The 5th Quantum Matter International Conference, Grenoble, France
2025 The 30th International Conference on Low Temperature Physics (LT30), Bilbao, Spain

Publication record

See https://qutech.nl/lab/vandersypen-lab/vandersypen-lab-publications
Or https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=Vandersypen+l*
Web of Science shows186 publications, cited 148 times on average

Selected research grants

2024 Lead PI of a NWO Summit grant (NL) on the limits of quantum physics
2021 Lead PI NWA (NL) consortium Quantum Inspire
2020 ERC Advanced Grant (EU) on quantum simulation with quantum dots
2015 NWO-VICI (NL) on Quantum simulation with quantum dots
2015 Lead PI of a major ten-year research collaboration with Intel Corporation (US)
2012 Co-PI ERC Synergy grant "Quantum Computer Lab" (EU)
2012, 2017, 2023 Co-PI ARO (US) on silicon spin qubits
2010 Co-PI IARPA (US) multi-spin qubit program
2008 Coordinator FOM Graphene Program (NL)
2007 ERC Starting Investigator Grant (EU)
2003 NWO-VIDI (NL)

Organization of scientific meetings

2003 Co-Chair, International Conference on Solid-State Quantum Information Processing, 15-18 Dec. 2003, Amsterdam, NL (200 participants)
2012 Chair, Graphene Week 2012 – Delft, the Netherlands, 4-8 June 2012 (350 participants)
2016 Chair, Silicon Quantum Electronics Workshop, Delft, NL, 13-14 June 2016 (200 participants)
2019 Chair, Japan-Netherlands Quantum Conference, 16-18 September 2019 (125 participants)

Teaching activities

2004 – 2009 Responsible instructor, Introduction to Quantum Mechanics, TU Delft
2005 – 2011 (biyearly) Responsible instructor, Quantum Information Processing, TU Delft
2010 – 2012 Responsible instructor, Mesoscopic Physics, TU Delft
2011 – 2016 Responsible instructor, Electricity and Magnetism, TU Delft
2011 – 2015 Coordinator Honours Program BSc Applied Physics, TU Delft
2016 – 2020 Responsible instructor, Quantum Hardware, TU Delft
2017 – 2019 Instructor, Classical Mechanics, TU Delft
2021 – (Responsible) instructor, Quantum Hardware II, TU Delft

Other service (selected)

2024 – Founding Advisor, Groove Quantum
2024 Member Scientific Advisory Group PGI 1, 2, 11, Forschungszentrum Jülich, Germany
2021 – Member of the review panel of the NCCR SPIN (large-scale program in Switzerland)
2019 & 2021 Member of the ERC Consolidator Panel (PE3)
2018 – 2020 Member of the Physics Roundtable (ten scientists representing the Dutch physics community at the Netherlands Organization for Scientific Research, NWO)
2014 – 2019 Member of the Physics Advisory Board of the Lorentz Center, Leiden, NL
2014 – Member of the Advisory Board of npj Quantum Information
2012 – 2018 Member of the Editorial Board of Phys. Rev. B

Program Committee of the Intl. Conf. on Low Temperature Physics (LT25, LT26) and the Intl. Conf. on Semicon. Quantum Dots (QD2012-QD2020), Intl. Advisory Board Member of LT 27-30 and of ICPS 2020, Intl. Advisory Committee Silicon Quantum Electronics Workshop (since 2016).