

# Curriculum vitae

## 1. Personal information

GRANDJEAN Nicolas, *French, Swiss, Married, 2 children*  
<https://scholar.google.ch/citations?user=k-TCc3QAAAAJ&hl=en>

## 2. Education

1991-1994 PhD thesis in Physics (*with highest honors*), University of Nice-Sophia Antipolis (France), Supervisor: Dr. J. Massies (CNRS silver medal) with *highest honors*  
 1990-1991 Master in Physics (*rank 1<sup>st</sup> with highest honors*), University of Nice-Sophia Antipolis (France)

## 3. Employment history

2010- EPFL, Full Professor in Physics  
 2004-2009 EPFL, Tenure-track Assistant Professor  
 1994-2003 CNRS (French National Center for Scientific Research) staff member - Senior Scientist

## 4. Institutional responsibilities

2018- EPFL, Director - Physics section - School of Basic Sciences  
 2012-2015 EPFL, Director - Institute of Condensed Matter Physics (ICMP) - School of Basic Sciences  
 2012- EPFL, Center of Micro-nano technology - steering committee member  
 2004- EPFL, Director - Laboratory of Advanced Semiconductors for Photonics and Electronics

## 5. Approved research projects

2004-2007 EU FP6 NITWAVE Nitride intersubband devices at telecommunication wavelengths	240 k€
2005-2008 EU FP6 STIMSCAT Polariton lasers and amplifiers	260 k€
2005-2008 EU-FP6 ULTRAGAN InAlN/InGaN Heterostructure Technology for Ultra-high Power Transistor	300 k€
2008-2011 EU-FP7 MORGAN Materials for Robust Gallium Nitride	585 kCHF
2008-2011 EU-FP7 RAINBOW High quality material and intrinsic properties of InN and In rich nitride alloys	318 k€
2009-2013 EU-FP7 CLERMONT4 Exciton-polaritons in microcavities: physics and devices	341 k€
2004-2006 SNF III-V Nitride Microcavities for Strong Coupling"	260 kCHF
2005-2009 SNF-NCCR Quantum Photonics - Nitride based light emitters	1700 kCHF
2005-2007 SNF Growth and physical properties of AlInN/GaN heterostructures	119 kCHF
2006-2008 SNF III-V nitride Microcavities	214 kCHF
2008-2010 SNF Light matter interaction in III-V Nitride Microcavities and Nanostructures	226 kCHF
2009-2010 SNF R'Equip GaN based Semiconductor heterostructures/MOVPE reactor	550 kCHF
2011-2013 SNF Light-matter interaction in GaN semiconductor cavities	241 kCHF
2013-2015 SNF Light-matter interaction in III-V nitride semiconductor cavities and waveguides	272 kCHF
2015-2017 SNF-DACH Advanced GaN based quantum devices	233 kCHF
2015-2018 SNF "(Al,Ga,In)N/GaN heterostructures for high frequency, high power, and high temperature "	488 kCHF
2015-2018 SNF "III-V nitride photonics"	360 kCHF
2016-2019 EU-H2020 "SUPERTWIN" All Solid-State Super-Twinning Photon Microscope	468 kCHF
2017-2019 EU-H2020 MSCA-IF Heat Transport and its Effects on the Perf. of Nanostruct., Photonic Materials	175 k€
2018-2022 SNF "GaN Nanophotonics"	536 kCHF

## 6. Supervision of junior researchers at graduate and postgraduate level

### PhD student

Christmann	Gabriel	2004-2008	Simeonov	Dobri	2004-2008
Cosendey	Gatien	2008-2012	Sulmoni	Luca	2009-2014
Giraud	Etienne	2010-2015	Vico Triviño	Noelia	2010-2015
Glauser	Marlene	2010-2014	Xi	Zeng	2010-2014
Gonschorek	Marcus	2006-2010	Zhu	Tiankai	2005-2009
Kaufmann	Nils	2010-2014	Haller	Camille	2015-
Levrat	Jacques	2006-2010	Ciers	Joachim	2014-2018
Lugani	Lorenzo	2011-2015	Sohi	Pirouz	2015-
Marco	Malinverni	2011-2015	Rousseau	Ian	2015-2018
Mouti	Anas	2006-2010	Tamariz	Sebastian	2015-
Nicolay	Sylvain	2004-2008	Simeonov	Dobri	2004-2008
Rosbach	Georg	2010-2014	Sulmoni	Luca	2009-2014

## 7. Teaching activities

- 2005-2006 “Physics and technology of semiconductors”, BSc. EEE (28h), Master in Material Science and engineering (56h)  
2006-2010 “Physics of semiconductor devices for Electronics and Optoelectronics”, Master in Physics (56 hours)  
2006- “General Physics I&II: mechanics and thermodynamics”, Bachelor in Engineering, 1<sup>st</sup> year – (84h)

## 8. Scientific information dissemination

- 2009: RSR broadcast “Impatience” (Feb. 20th) – Swiss national radio  
2009: TSR1 News (19h30 - Feb. 24th) – Swiss national television  
2012: Article on white LEDs for general public in “Pour la Science”, popular science magazine  
2015: TV broadcast TSR “A bon entendeur”, TV News TSR 12h15, RTS CQFD radio broadcast

## 9. Memberships in panels, boards, etc., and individual scientific reviewing activities

- 2018 Paul Drude Institute – Berlin, Scientific advisory board  
2013 Search Committee member, Editor in Chief for Applied Physics Letters  
2006- Expert - National Research Agency (France, US, Germany, Canada, Switzerland, Poland, Belgium)  
2009 -2015 Scientific Advisor for Saint-Gobain Recherche  
2014- Scientific advisor in the field of optoelectronic devices  
2009 Audit Committee member for the French Agency for Research and Higher Education (Labex call)  
2011-2016 Expert for the Ministry of Education - Singapore  
2002-2003 Expert for the Observatory of Micro and Nanotechnologies - France  
2003 Reviewer for Ministry of Research and Technology – France  
2006 Audit Committee member of CNRS-GES and CNRS-LPCNO Laboratories - France  
1998- PhD thesis examiner (>30)  
1994- Referee for PRL, PRB, APL, JAP, Nature Comm., Nature Photonics, ...

## 10. Organisation of conferences

### Conference Organizing Committee member

- 1999 European Workshop on Molecular beam epitaxy  
2005 European Workshop on Metalorganic Vapour Phase Epitaxy  
2011-2016 Forum LED Europe

### Conference Program Committee member

- 2002, 2004 International Conference on Superlattice Nanostructure and Nanodevices  
2005-2007 Physics of Light Matter Coupling in Nanostructures Conference  
2006 International Symposium on Growth of III-Nitrides  
2007 International Conference of Nitride Semiconductors (ICNS7) – European Chair  
2007- IEEE Photonic West Conference  
2007- European Workshop on Molecular beam epitaxy  
2008- 7<sup>th</sup> Int. Symposium on Semiconductor Light Emitting Devices  
2009- Conference on Lasers and Electro Optics (CLEO)  
2014 International Workshop on Nitride semiconductors

### Conference International Advisory Committee member

- 2004- International Conference on Molecular Beam Epitaxy (IC-MBE)  
2006 European Workshop of III-Nitride Semiconductors and Devices  
2006- International Workshop on Nitride semiconductors (IWN)  
2007 3<sup>rd</sup> International Conference Micro&Nano  
2009- International Conference on Nitride Semiconductors (ICNS)  
2010- International Symposium on Growth of III-Nitrides (ISGN)

### Conference Chair

- 2006 Co-chair of the “Monte Verita” Summer School on Wide-bandgap Semiconductor Quantum Structures  
2008 Chairman of the 5<sup>th</sup> International Workshop on Nitride semiconductors (IWN2008)  
2003 Symposium at MRS Fall Meeting-Boston (Co-Chair)

## 11. Prizes, awards, fellowships

- 2017 Quantum Devices Award – International Symposium on Compound Semiconductors (ISCS)  
2016 UCSB Visiting Professor (6 months) at the SSLEEC (co-director: S. Nakamura, 2014 Nobel Laureate)  
2015 Best teacher award (General Physics course for Freshmen) – EPFL School of basic Sciences  
2010 “Nakamura Lecturer” award from University of California at Santa Barbara (US)  
2009- Appointed Visiting Professor at Strathclyde University (UK)  
2004 Beneficiary of the program for academic promotion of the Sandoz Family Foundation (CH)  
2000 CNRS grant: “Young Researcher Action” (F)