Curriculum Vitae

• Personal data

Name:	Yaroslav M. BLANTER
Address:	Kavli Institute of Nanoscience Delft University of Technology Lorentzweg 1, 2628 CJ Delft The Netherlands
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Date of birth:	19 Nov. 1967
Languages:	English, Dutch, French, German, Russian (mothertongue)

• Education and Academic Degrees

1990—1992	PhD student in condensed matter physics, Department of Theoretical Physics, Moscow Institute for Steel and Alloys. **Degree:** Cand. Sci. (PhD), Physics and Mathematics. **Thesis:** "Manifestation of quantum effects in kinetic properties of metals in the vicinity of topological transitions", 21 May 1992, under supervision of Prof. Andrei A. Varlamov
1984—1990	Student in solid state physics, Department of Theoretical Physics, Moscow Institute for Steel and Alloys.

• Professional background

Since November 2012: Antoni van Leeuwenhoek Professor, Kavli Institute of Nanoscience, Delft University of Technology, Delft, the Netherlands.

October 2007 — October 2012: Universitair Hoofddocent (Associate Professor), Kavli Institute of Nanoscience, Delft University of Technology, Delft, the Netherlands.

October 2000 — October 2007: Universitair Docent (Assistant Professor), Kavli Institute of Nanoscience (formerly Department of NanoScience, Department of Applied Physics), Delft University of Technology, Delft, the Netherlands.

October 1996 — September 2000: Maître-Assistant, Département de Physique Théorique, Université de Genève, Geneva, Switzerland. Group of Prof. Markus Büttiker.

March 1995 — September 1996: Alexander von Humboldt Fellow, Institut für Theorie der Kondensierten Materie, Universität Karlsruhe, Karlsruhe, Germany.

June 1994 — February 1995: Associate Professor, Department of Theoretical Physics, Moscow Institute for Steel and Alloys, Moscow, Russia.

March 1992 — June 1994: Assistant Professor, Department of Theoretical Physics, Moscow Institute for Steel and Alloys, Moscow, Russia.

March 1990 — March 1992: PhD student, Department of Theoretical Physics, Moscow Institute for Steel and Alloys, Moscow, Russia.

Current teaching

- **Modern Physics** (Bachelor program Applied Physics, 1st year students), with Herre van der Zant
- **Advanced solid state physics** (Master program Applied Physics), with Andrea Caviglia
- **Fairy Tales of Theoretical Physics** (Master program Applied Physics), with theory colleagues
- **Math & Science Class** (5 VWO students), lecturer and co-organizer

PhD thesis supervision

- Gabriele Campagnano, PhD 2006, *Electronic Scattering and Spin Statistics in Nanosctructures* (joint supervision with Yuli Nazarov).
- Omar Usmani, PhD 2006, *Strong Feedback in Nanoelectromechanical Systems* (joint supervision with Yuli Nazarov).
- Maria Medvedyeva, PhD 2011, *On localization of Dirac fermions by disorder* (joint supervision with Carlo Beenakker).
- Giorgi Labadze, PhD 2012, *Electromechanics of suspended nanowires*.
- Marcin Dukalski, PhD 2013, *On quantum entanglement, measurement, and decoherence in nanosystems*.
- Fateme Joibari, PhD 2014, *Interplay of charge current and spin in nanostructures* (joint supervision with Gerrit Bauer).
- Olga Shevchuk.
- João Machado.
- Sanchar Sharma (joint supervision with Gerrit Bauer).

Bachelor and master students

- Michiel Kroon, bachelor thesis, 2005.
- Rachid ElBoubsi, bachelor thesis, 2005.
- Rachid ElBoubsi, master thesis, 2006.
- Robin de Kryuff, bachelor thesis, 2010.
- Tom Laeven, bachelor thesis, 2015.
- Michel Hubert, bachelor thesis, 2015.
- Tobias Stad, bachelor thesis, 2016.
- Ryan Rewat, master thesis, 2016.
- Nikolas Kavadias, bachelor thesis.
- Bart Hesselmann, bachelor thesis.

Funding

- FOM Projectruimte Grant *Floppy quantum mechanics*, 2013 — 2018.
- FOM Research Program *Single Phonon Nanomechanics*, 2012 — 2017.
- EU FP7 Specific Targeted Research Project QNEMS (*Quantum nanoelectromechanical devices*), 2009 — 2012, coordinator.
- FOM Projectruimte Grant *Weak measurements and weak values in quantum mechanics*, 2009 — 2013.
- FOM Research Program *Atomic and Molecular Nanophysics*, 2007 — 2011.
- EU FP6 Specific Targeted Research Project CANEL (*Carbon-based nanoelectromechanical devices*), 2004 — 2007.
- EU FP6 Specific Targeted Research Project SFINX (*Ferromagnet/superconductor hybrids*), 2004 — 2007.
- FOM Projectruimte Grant *Nanomechanics with carbon nanotubes*, 2003 — 2006.
- FOM Research Program *Nanoscale Electronic Devices*, 2002 — 2006.

Publications

101 publications in refereed journals
H-index: 28
59 invited conference talks
The full list of publications and talks is here

Conference organization

- **Workshop *"Quantum Matter and Quantum Devices"***, April 2015, Delft, the Nethelands: Co-organizer.

- **ICC-IMR International Workshop *"Spin Mechanics"***, June 2014, Sendai, Japan: Member of the Organizing Committee.

- **Advanced Research Workshop *"Fundamentals of Elecronics Nanosystems Nanopeter — 2014"***, June 2014, Saint-Petersburg, Russia: Scientific director.

- **Advanced Research Workshop *"Fundamentals of Elecronics Nanosystems Nanopeter — 2012"***, June 2012, Saint-Petersburg, Russia: Member of the Organizing Committee.

- **Lorentz Center Workshop *"Quantum to Classical Crossover in Mechanical Systems"***, October 2011, Leiden, the Netherlands: Co-organizer.

- **FOM Dagen**, January 2012, Veldhoven, the Netherlands: Co-organizer of the focus session *"Mechanics at the quantum limit"*.

- **Rencontres de Moriond — 2011**, March 2011, La Thuile, Aosta Valley, Italy: Member of the Program Committee.

- **Advanced Research Workshop *"Fundamentals of Elecronics Nanosystems Nanopeter — 2010"***, June 2010, Saint-Petersburg, Russia: Member of the Organizing Committee.

- **Advanced Research Workshop *"Fundamentals of Elecronics Nanosystems Nanopeter — 2008"***, June 2008, Saint-Petersburg, Russia: Member of the Organizing Committee.

- **Advanced Research Workshop *"Fundamentals of Elecronics Nanosystems Nanopeter — 2006"***, June 2006, Saint-Petersburg, Russia: Member of the Organizing Committee.

- **Advanced Research Workshop *"Fundamentals of Elecronics Nanosystems Nanopeter — 2005"***, June 2005, Saint-Petersburg, Russia: Member of the Organizing Committee.

- **Workshop *"Fundamental Problems in Nanomechanical Systems"***, June 2004, Gothenburg, Sweden: Member of the Organizing Committee.

- **SPIE symposium *Fluctuations and Noise 2004*** , May 2004, Gran Canaria, Spain: Symposium Co-Chair.

- **SPIE symposium *Fluctuations and Noise 2003*** , June 2003, Santa Fe, NM: Member of the Program Committee.

- **NATO Advanced Research Workshop *"Quantum noise in mesoscopic physics"*** , June 2002, Delft, the Netherlands: Member of the Organizing Committee and local organizer.