

DR. IR. ING. REINOUD LAVRIJSEN

Curriculum Vitae (Dec. 2021)

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MAJOR PROFESSIONAL INTERESTS

Nanomagnetism, Condensed Matter Physics, Spintronics, Material Science, Magnetic Nanoparticles, Teaching

EDUCATION

Jan.2007 – Jan.2011 Ph.D. Eindhoven University of Technology,
Department of Applied Physics, Group Physics of Nanostructures
Thesis title: [Another spin in the wall](#)

2003 – 2006 MSc (Ir.), Eindhoven University of Technology, Applied Physics

1998 – 2003 BSc (Ing.), Fontys University Eindhoven, Engineering Physics

PROFESSIONAL EXPERIENCE

Oct. 2020 – Present.
Associate Professor at Eindhoven University of Technology (TU/e),
group Physics of Nanostructures. Magnonics & NanoMagnetism,

Jun. 2015 – Sept. 2020
Assistant Professor at Eindhoven University of Technology (TU/e),
group Physics of Nanostructures.

Jan. 2013 – Dec. 2015
Research fellow at Eindhoven University of Technology (TU/e) with a
personal [VENI](#) fellowship from the Dutch Organization for Scientific
Research (NWO) Project: *Three torques are better than one*

Jun. 2011 – Dec. 2012

Research fellow at the Cavendish Laboratory with a personal [Rubicon](#) fellowship from the Dutch Organization for Scientific Research (NWO)
Research Project: *Shifting spintronics into the third dimension*

Mar. 2011 – May 2011

Post-doctoral research associate at the Cavendish Laboratory, University of Cambridge, UK, with Prof. Russell Cowburn FRS

2007 – 2011 PhD (see education)

2006 (10 months) Master thesis at Eindhoven University of Technology (TU/e),
Topic: *MgO based Magnetic Tunnel Junctions*

2003 (6 months) Bachelors thesis at CERN, Geneva, Switzerland,
Topic: *Modeling the cool down sequence of the LHC*

2001 (6 months) Internship at the institute for materials, CESTM, State University of New York (SUNY), Albany, NY, USA
Topic: *Optical interconnect design, testing a Spectrometer for NASA*

1997 – 2001 **JDS Uniphase**, Eindhoven, The Netherlands
Topic: *Assistant to Senior Engineer (wavelength-locking lasers)*

LIST OF PUBLICATIONS, PRESENTATIONS & REVIEWER

- I am first author or co-author of 67 publications (see list of output) and have been invited to speak at major international conferences.
- I regularly act as a referee for Nature Communications, Nature Materials, Nature Electronics, Physical Review Letters, Physical Review B, Applied Physics Letters, Journal of Physics D, Journal of Applied Physics and have organized / chaired sessions at international conferences such as MMM / Intermag and CMD.
- Member of the Faculty Council of Applied Physics, TU/e, since Jan. 2016
- Member of the Examination Committee of Applied Physics, TU/e. since Nov 2020
- Member of the ICMS, EHCI institutes and C3Te center at TU/e

TEACHING EXPERIENCE & CERTIFICATES

- Lecturer for the Applied Natural Sciences bachelor course at the TU/e and responsible lecturer for NanoMagnetism Master course.
- Co-teaching MSc. “Spintronics” and guiding groups in the USE lines of valorisation
- Associate Fellow of the [Higher Education Academy](#), AFHEA, (UK Professional Standards Framework UKPSF)
- 2011- 2012: Supervision of Physics 1A at Sidney Sussex College, Cambridge, UK
- Supervised >70 MSc., BSc. and internship projects (see list of output)
- Co-promotor of 5 finished PhD’s (currently: 1st/2nd promotor of 7 PhD students, Co-Promotor of 6 other PhD students, see list of output)
 1. Dr. M.Sc. Anni Cao (Co-Promotor 2020)

2. Dr. Ir. Juriaan Lucassen (Co-Promotor 2020) *Cum-Laude*
3. Dr. Ir. Fanny Ummelen (Co-Promotor 2020)
4. Dr. Ir. Mark Laliou (Co-Promotor 2019)
5. Dr. Ir. Yuxiang Yin (Co-Promotor 2018)

GRANTS AND AWARDS

Grants

- 2021 NWO-Klein 2 grant from the Dutch Organization for Scientific Research: Black holes on a chip, main-applicant (700 k€)
- 2021 Immuno-Engineering Startup grant, ICMS-TU/e (250 k€)
- 2018 EU-ETN MagnEFi 2x PhD; (530 k€+100k€) Okt. 2019 – Okt. 2024 (500 k€)
- 2013-2018 Co-applicant for various granted grant proposals (i.e. FOM projectruimte, NWO Zwaartekracht) (600 k€)
- 2012 Personal VENI grant from the Dutch Organization for Scientific Research (NWO) Jan. 2013 – Dec. 2015 (250 k€)
- 2011 Personal Rubicon grant from the Dutch Organization for Scientific Research (NWO), Marie-Curie Actions. Jun. 2011 – Dec. 2012 (110 k€)

Awards

- Best Master Teacher 2021 Award whole TU/e (10 k€)
- STOOR education award “Best Teacher Master” 2020-2021
- STOOR education award “Best Teacher Master Semester A” 2019-2020
- STOOR education award “Best Teacher 1st year Applied Physics” 2017-2018
- Nominated for the best master-phase teacher of the TU/e 2016-2017
- Winner of the [Nationale Wetenschaps Quiz 2016](#), National TV
- STOOR Best XL-presentation award TU/e, October 2011.
- STOOR Best supervisor award, TU/e, 2007-2008
- Nominated for best Master thesis award 2006 of the TU/e.
- Best presentation award at the NEVAC studentendag 2006.

LANGUAGES

	<i>Writing</i>	<i>Speaking</i>
Dutch	Native	Native
English	Excellent	Excellent
German	Basic	Basic
French	Basic	Basic

NOT WORK RELATED

Interests range from music, music making (piano), squash, strategy board games, traveling, detectives, cooking, cross-country mountain biking.