

Jarn de Jong

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Scientist & last-year PhD candidate at the Technische Universität Berlin (TUB).

Research in quantum communication and cryptography; also interested in quantum information science, physics, mathematics, computer-science & engineering. Many scientific collaborations throughout Europe. [List of publications](#)

Professional qualities include

Leadership, explaining, teaching & lecturing, (event) planning, teamwork, analytical thinking and being a versatile 'computer nerd'.

Extensive practical experience beyond my theoretical knowledge

with computers, software and websites, through e.g. the [Graphstabilizer](#) package I developed, self-hosting and smaller software projects.

Experiences

- 2022- **Member of Use Case Team**, [Quantum Internet Alliance \(QIA\)](#), Berlin.
[QIA](#) is the EU-flagship project creating the first quantum internet.
Tasks include: interim team lead, use case development, reporting to European Commission.
- May 2023 **Visiting researcher**, [LIP6](#) at [CNRS](#) & [Sorbonne Université](#), Paris.
Research visit at the LIP6 QI Department of CNRS and Sorbonne in Paris. I presented my previous work and collaborated with various researchers.
- 2020- **Scientific Employee**, [TUB](#), Berlin.
Scientific Employee ('Wissenschaftliche Mitarbeiter') in the [QCC group](#) of [Anna Pappa](#) at TU Berlin. In the scope of my PhD, but in principle separate.
Tasks include: Designing & giving lectures, supervising students, scientific talks.
- 2019-2020 **Research assistant and software developer**, [QuTech](#), Delft.
Developed soft- and hardware of MVP for an *MDI-QKD* system that span-off into [QBird](#) in 2021.
Tasks include: both (quantum) hardware- & software development plus simulations.
- 2019 **Intern at Quantum Technology department**, [TNO](#), Delft.
Internship at the Quantum Technology department of the Netherlands Organisation of Applied Sciences research (TNO).
Tasks include: designing and developing experiments for an upcoming quantum device, including extensive software development and simulations.
- 2015 **Physics teacher intern**, [Gymnasium Sorghvliet](#), The Hague.
Half-year physics teacher internship for first 3 years of highschool. This was in the scope of the minor of my BSc. at DUT. Culminated in official teaching qualification.
- 2011–2018 **Tutoring & Teaching**, [Steunlescollectief](#) & [TNW Faculty DUT](#), Haarlem & Delft.
Tutoring high school students while in highschool.
Teaching assistant for various BSc. courses.
Teaching a retake course of various maths courses (lecturing, managing the course, grading, creating handouts & supervising exams).
Designing various MOOCs (in a team) on quantum computing ([list of MOOCs](#)).

Education and Qualifications

- 2016–2019 **MSc. Applied Physics (AP)**, DUT, Delft, GPA: 8.4.
Quantum Nanoscience track with electives in Quantum Information Science.
Thesis - *Quantum error correcting codes and Fault tolerant quantum computation*
Supervisor: Prof. Dr. B.M. Terhal at QuTech.
- 2014–2015 **Second degree teaching qualification**, DUT, Delft.
Qualified physics teacher for year 1 – 3 Dutch high school students, all levels, or equivalent in foreign countries. Obtained during minor of BSc.
- 2012–2016 **BSc. Applied Physics**, DUT, Delft, GPA: 7.5.
Thesis - *Laser Beam Shaping using a low order deformable mirror*
Supervisor: Prof. Dr. Ing. M. Verhaegen at Delft Centre for Systems and Control.
- 2006–2012 **Pre-university education**, Stedelijk Gymnasium Haarlem, Haarlem, GPA: 8.0.
Science and engineering profile, courses in classical languages.

Extracurricular experiences and activities

- 2012–2017 **Various ‘Commissies’**, *VvTP*, study association of Physics at DUT..
(‘16–‘17) **President** of Case Tour committee, organising one-week intensive tour in London for selective group of 30 Applied Physics & Aeronautics MSc. students at DUT. Visits to many leading international companies in Finance, Consulting and Engineering.
(‘14–‘15) **President** of Symposium committee, organising a physics symposium with 200+ attendants. Speakers included *Jan van Schoot* (ASML) and *Matthew Greenhouse* (JWST, chief engineer, NASA).
Members & Interim president of various other committee’s & activities, including a pilot promoting a career as PhD, (interim chief) editor of quarterly magazine by VvTP, member of sport committee etc.

Languages

Dutch	Native	
English	Expert	<i>Cambridge Certificate in Advanced English, CEFR C2</i>
German	Competent	<i>CEFR B2</i>
Spanish,	Novice	<i>CEFR A1–A2</i>
French		

Computer Skills

- General Proficient to expert in a versatile range of computer methods, OS'es & software, hardware, self-hosting, software development, SSH, GIT etc.
- Coding Python (Advanced), LATEX (Advanced), MATLAB (Proficient), JAVA (Basic).

Interests and hobbies

DIY	e.g. stereo system, furniture	Music	Vinyl & CD collecting, <i>discovering</i>
Self-hosting	<i>Website</i> , <i>Cloud</i> , Music server, Git server etc.	Chess	OTB & online, bullet chess
Clarinet	1 st clarinet, Multiple Orchestras	Sports	Running, Boulder, Tennis