

# Jarn de Jong

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

Focused on Quantum communication and cryptography; many scientific collaborations throughout Europe.

## List of publications

**Professional Interests** additionally include

Quantum Information Science, physics, mathematics and computer science & engineering.

**Professional qualities** include

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

## Experiences

- 2022- **Use Case Team**, [Quantum Internet Alliance \(QIA\)](#), Berlin.  
I am part of the *Use Case Team* of [QIA](#), the EU-flagship project that aims to create the first worldwide quantum internet; I research and develop use cases for the (future) 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 Roland Berger, Oliver Wyman, Citibank, BCG, Goldman Sachs, Rolls Royce, Airbus D&S.  
(‘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   | <b>Native</b>    |   |
| English | <b>Expert</b>    | <i>Cambridge Certificate in Advanced English, CEFR C2</i> |
| German  | <b>Competent</b> | <i>CEFR B2</i>  |

## Computer Skills

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|---------|--|
| 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 <sup>st</sup> clarinet, Multiple Orchestras                 | Sports | Running, Boulder, Tennis                  |