UNIVERSITY OF AMSTERDAM
Informatics Institute

heory.amsterdam

Theory of Computer Science (TCS)



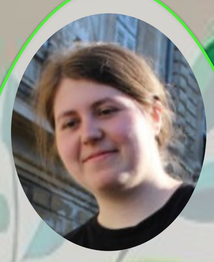
Lydia Tasiou
PhD student
Code-based cryptography



Ailsa Robertson
PhD student
Transition to post-quantum security, society



Daan Planken
PhD student
Side-channel attacks on quantum devices



Gina Muuss
PhD student
Quantum space complexity



Manideep Mamindlapally
PhD student
Quantum query algorithms, fine-grained complexity



Sarah Meng Li
PhD student
Fault-tolerant quantum computing (FTQC), quantum compilation



Marc Farreras
PhD student
Quantum compilation, tensor networks



Martijn Brehm
PhD student
Error-correcting codes



Nicolas Resch
Assistant Professor
Error-correcting codes & cryptography



Christian Schaffner
Group Leader
Cyber security



Florian Speelman
Assistant Professor
Quantum communication, quantum cryptography & complexity theory



John van de Wetering
Assistant Professor
FTQC, quantum compilation, classical simulation, ZX calculus



Divya Ravi
Assistant Professor
Secure Multi-Party Computation, and Distributed Computing



Sebastian Verschoor
Postdoc
Integration of quantum and classical security



Koen Groenland
Quantum Innovation Officer
Business aspects of quantum cryptography



Steven de Rooij
Instructor

Quantum-Safe Communication

- PhD: Quantum-Safe Internet (QSI)
- PhD: Side-Channel Attacks on Quantum Devices Used in Quantum Networks
- PhD: Quantum Impact on Societal Security (QISS)
- PD: Integration of quantum and classical security

Cryptography

- PhD: Efficient Cryptographic Proofs
- NWO VENI by Nic Resch: Secure and Efficient Code-Based Cryptography
- NWO Gravitation Project: Challenges in Cybersecurity (CiCS)
- PhD: Secure Multi-party Computation

Algorithms & Complexity

- PhD: Fine-grained space-time tradeoffs

Quantum Compilation

- NWO VENI by John van de Wetering: ZX Calculus + Quantum Fault Tolerance
- PhDs: Quantum Compilation

- New MSc in Quantum Computer Science (QuCS)
- Various TCS courses
- MSc and BSc supervision

NWO · TNO · Quantum Gateway Foundation · Quantum.Amsterdam · SURF · QAL · Quantum Software Consortium · Quantum Computer Science · Quantum Delta NL · CWI · EQSI European Quantum Software Institute · QuSoft