

Leon Groot Bruinderink M.Sc.

Date of Birth: 17 - 11 - 1990

Location: Eindhoven

EDUCATION

- **Master Industrial and Applied Mathematics** Sep 2013 - Jan 2016
Eindhoven University of Technology. Graduated Cum Laude
Specialisation: Discrete Mathematics and Applications.
Focussing on the applications of mathematics in Computer Science.
Thesis: Towards Post-Quantum Bitcoin; Side-channel Analysis of Bimodal Lattice Signatures.
- **Bachelor Applied Mathematics** Sep 2009 - Sep 2013
Eindhoven University of Technology.
Focussing on the applications of mathematics in technology. Minor Computer science.
Thesis: Reducing errors made by Datastream Summaries
Activities: Treasurer 55th Anniversary Committee (*Eindhoven Students Association, 2012*)

WORK EXPERIENCE

- **PhD Candidate** Feb 2016 - Current (Feb 2020)
Eindhoven University of Technology. Supervisor: Tanja Lange
Research area: Post-quantum cryptography.
- **Graduate Intern** Apr 2015 - Okt 2015
ING Innovation Lab. Supervisors: Tanja Lange (TU/e) and Lodewijk Bonebakker(ING)
Project: Blockchain technology, Lattice-based signature schemes, Side-channel attacks.
- **Teachers Assistant** Feb 2015 - May 2015
Eindhoven University of Technology.
TA of Applied Mathematics (Bachelors) course: Algebra and Discrete Mathematics.
- **Visiting Scholar (Research Internship)** Sep 2014 - Dec 2014
University of Pennsylvania. Supervisors: Nadia Heninger and Tanja Lange
Topic: Lattices used in Cryptanalysis and Coding Theory.
Preprint: Speeding up list-decoding of Reed-Solomon codes by rounding. Joint work with Nadia Heninger. (In submission)
- **Script Developer** Oct 2010 - Jun 2015
Coosto B.V., Eindhoven. About 8 hours per week
Writing / reviewing scripts in Python for data-extraction of social media content.

SKILLS

- Languages: Dutch (native) and English (fluent).
- Software Skills:
Windows (including MS Office), Linux, Java, Python, C++.
Mathematical programs: Mathematica, Matlab, AIMMS, R Statistics, Sage.