elisawem@cs.cmu.edu

## EDUCATION

2018 – ongoing	Ph.D. Student: Computer Science Department Coadvised by Vipul Goyal and Bryan Parno Carnegie Mellon University
2016 – 2019	Master studies: Informatics Karlsruhe Institute of Technology
2013 – 2018	Bachelor studies: Mathematics Karlsruhe Institute of Technology
2011 – 2016	Bachelor studies: Informatics Karlsruhe Institute of Technology

## PUBLICATIONS

2021	Blockchains Enable Non-Interactive MPC Vipul Goyal, Elisaweta Masserova, Bryan Parno, Yifan Song • TCC 2021 • https://eprint.iacr.org/2021/1233
2020	<ul> <li>Fast Batched DPSS and its Applications</li> <li>Vipul Goyal, Abhiram Kothapalli, Elisaweta Masserova, Bryan Parno, Yifan Song</li> <li>PKC 2022</li> <li>https://eprint.iacr.org/2020/504</li> </ul>
2020	<ul> <li>Poppins: A Direct Construction for Asymptotically Optimal zkSNARKs</li> <li>Abhiram Kothapalli, Elisaweta Masserova, Bryan Parno</li> <li>Cryptology ePrint Archive, Report 2020/1318</li> <li>https://eprint.iacr.org/2020/1318</li> </ul>
2020	<ul> <li>Talek: Private Group Messaging with Hidden Access Patterns</li> <li>Raymond Cheng, William Scott, Elisaweta Masserova, Irene Zhang, Vipul Goyal, Thomas</li> <li>Anderson, Arvind Krishnamurthy, Bryan Parno</li> <li>ACSAC 2020</li> <li>https://eprint.iacr.org/2020/066</li> </ul>
2018	Rerandomizing Oblivious Transfer for Online Oblivious Bingo Voting Master thesis, Advisors: Prof. Müller-Quade, Rebecca Schwerdt, M.Sc.
2016	Evaluation of Publishable Humanly Usable Secure Password Creation Schemas Bachelor thesis, Advisors: Prof. Manuel Blum and Prof. Müller-Quade
2014	sGrid: Centralized management of BOINC-based research projects - Summary Poster, In GI-Jahrestagung, p. 2487. (2014)

## WORK AND RESEARCH EXPERIENCE

2010 2020	School of	Computer Science	CNALL	toophing accistont
2019, 2020	20100101	Computer Science,	CIVIU.	

• TA for Introduction to Cryptography

2014 – 2018	Freelancing in software- and web-development
	Developed multiple websites
2014 – 2018	Institute of Theoretical Informatics at KIT, student research assistant
	Developed a visualization of a zero-knowledge proof example for educational purposes
	<ul> <li>Designed various educational materials, posters, flyers</li> <li>Worked on the topic of CCA-secure commitments</li> </ul>
2013 – 2014	<ul> <li>bluehands GmbH &amp; Co.mmunication KG, software development</li> <li>Collaborated on the development of a city guide app</li> </ul>
2013	<ul> <li>FZI Research Center for Information Technology, applied software development</li> <li>Developed a training app to support the recovery of stroke patients</li> </ul>

HONORS AND AV	VARDS
2015	InterAct scholarship for bachelor thesis research at CMU, Pittsburgh USA
2014	<ul> <li>1st Place at the HackZurich, Europe's largest hackathon (Team "Immersive")</li> <li>Virtual reality app which enabled users to capture and view stereo panoramas using a smartphone</li> </ul>
2014	<ul> <li>1st Place at the Microsoft Imagine Cup national Final (Team "Krowd")</li> <li>System to monitor crowd movement by tracking signals of WiFi enabled devices to ensure security at big events</li> </ul>
2014 – 2015	<ul> <li>Participated in the Femtec Carreerbuilding-Program</li> <li>Stipend for outstanding females in engineering and applied sciences, in cooperation with Germany's top Universities and Employers</li> </ul>
2012 – 2014	ACM ICPC German Collegiate Programming Contest (GCPC) participation ACM ICPC Northwestern European Regional Contest (NWERC) participation
2013	<ul><li>App Art Award by ZKM Karlsruhe (Team "Bitphonie")</li><li>App that converted live sensor data of multiple smartphones into music</li></ul>
2005 – 2010	Multiple awards at the Saporoshje city Olympiads in mathematics and physics
2009	8th place at the Ukrainian finals of the International competition for mathematical and logical games

## ADDITIONAL INFORMATION

Extracurricular activities	Member of Studies Without Borders student organisation
Language skills	Mother tongue Russian and Ukrainian Fluent German and English
Spare time interests	Digital art, photography

Pittsburgh, 01.01.2022