

# GIULIO MALAVOLTA

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## EDUCATION

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### **Friedrich-Alexander University**

Ph.D. in Computer Science (with Distinction)

*June 2019*

Thesis: “Cryptographic Clocks and Applications”

Advisor: Prof. Dominique Schröder

### **Saarland University**

M.Sc. in Computer Science

*December 2016*

### **University of Bologna**

M.Sc. in Bioinformatics

*July 2012*

B.Sc. in Biotechnology

*October 2010*

### **Liceo Scientifico Leonardo da Vinci**

Maturità Scientifica

*July 2007*

## PROFESSIONAL EXPERIENCE

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### **Bocconi University**

Assistant Professor (Tenure-Track)

*September 2023 - Present*

### **Max Planck Institute for Security and Privacy**

Faculty (Tenure-Track)

*September 2020 - September 2023*

### **University of California, Berkeley**

PostDoctoral Fellow (hosted by Prof. Sanjam Garg)

*December 2019 - August 2020*

### **Simons Institute for the Theory of Computing**

Research Fellow

*August 2019 - December 2019*

### **Carnegie Mellon University**

Research Fellow (hosted by Prof. Vipul Goyal)

*February 2019 - August 2019*

### **University of California, Berkeley**

Research Visitor (hosted by Prof. Sanjam Garg)

*August 2017 - October 2017*

## HONORS AND AWARDS

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### **Heinz Maier-Leibnitz Prize**

DFG, German Research Foundation, 2023

### **ERC Starting Grant**

European Research Council, 2022

### **Staedtler-Stiftung Dissertation Award**

Staedtler Foundation, 2020

### **Simons Research Fellowship**

Simons Foundation, 2019

## RESEARCH GRANTS

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**ObfusQation (PI)**

ERC StG,  $\approx 1.500.000\text{€}$

*January 2024 - January 2029*

**Robust Certification of Quantum Devices (co-PI)**

CASA,  $\approx 400.000\text{€}$

*June 2023 - June 2026*

**MIT-Germany Lockheed Martin Seed Funds (co-PI)**

MISTI Global Seed Funds,  $\approx 20.000\text{\$}$

*May 2023 - January 2025*

**Cryptography in Light of Quantum Information (co-PI)**

CASA,  $\approx 200.000\text{€}$

*November 2022 - November 2025*

**Post-Quantum Vector Commitments (lead PI)**

Protocol Labs,  $\approx 50.000\text{\$}$

*October 2021 - April 2022*

**6GEM (co-PI)**

BMBF,  $1.100.000\text{€}$  ( $\approx 300.000\text{€}$  personal)

*October 2021 - October 2025*

**Secure Authentication in Blockchain Environments (lead PI)**

CLTC,  $\approx 50.000\text{\$}$

*January 2020 - August 2020*

## ACADEMIC SERVICE

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**Workshop Organization:**

“KQC: Kyoto Quantum Cryptography” (Kyoto, Japan - 2024)

“TPLC: Theory and Practice of Laconic Cryptography” (Zürich, Switzerland - EUROCRYPT 2024)

“The Multiple Facets of Quantum Proofs” (Rome, Italy - STOC 2022)

**Summer School Organization:**

“IACR Summer School in Post-Quantum Cryptography” (Warsaw, Poland - 2024)

**Program Committee Member:**

(2024) ITCS, ITC, TCC

(2023) ICALP, TCC, TQC, QCrypt

(2022) ASIACRYPT, EUROCRYPT, PKC, S&P, QCW

(2021) CCS, CVC, PKC

(2020) CRYPTO, CVC, Stanford Blockchain Conference

**Journal Reviews:** IEEE Transactions on Information Forensics and Security (2016), Journal of Cybersecurity (2018), and Journal of Cryptology (2020)

**Grant Reviews:** European Research Council (2020) and Israeli Science Foundation (2021)

**Conference Reviews:** ASIACRYPT (2019), CANS (2017), CCS (2015, 2016, 2017, 2019), CRYPTO (2016, 2017, 2019, 2021, 2022), EUROCRYPT (2015, 2016, 2020, 2021), FC (2017), FOCS (2021, 2022), ICTCS (2015), ITCS (2020), IWSEC (2016, 2017), MFCS (2022), PKC (2015, 2016, 2018, 2019), PST (2017), QCrypt (2021), QIP (2023, 2024), SCN (2018), S&P (2018, 2020), STOC (2022, 2024), TCC (2016, 2019, 2020, 2021), UbiComp (2016), and Usenix Security (2018)

## LECTURES

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### Quantum Cryptography

@ Ruhr University of Bochum (joint with Prof. Michael Walter) *Fall 2022*

### Zero-Knowledge Proof Systems

@ Ruhr University of Bochum (joint with Prof. Nils Fleischhacker) *Summer 2022*

@ Ruhr University of Bochum (joint with Prof. Nils Fleischhacker) *Summer 2021*

### Seminar on Classical Verification of Quantum Computation

@ CWI Amsterdam *Summer 2022*

@ University of Illinois at Urbana-Champaign *Summer 2022*

### Seminar on Homomorphic Encryption

@ University of Bologna *Fall 2022*

@ University of Bologna *Fall 2021*

@ University of Bologna *Fall 2020*

## INVITED TALKS

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### Non-Interactive Quantum-Key Distribution

@ PCMI Workshop *Summer 2023*

### Post-Quantum Timed Cryptography

@ Lattices Meet Hashes Workshop *Summer 2023*

### Efficient Classical Verification of Quantum Computation

@ CPT Director Symposium *Fall 2022*

@ CISPALORIA Workshop *Fall 2022*

@ Bocconi University *Fall 2022*

### Can We Obfuscate Quantum Circuits?

@ Aalto University *Fall 2022*

@ Milano Theory Workshop *Summer 2022*

@ Workshop on Theory and Practice of Multi-Party Computation *Summer 2022*

@ QuSoft Seminar *Summer 2022*

@ Athecrypt *Fall 2021*

### Rate-1 Quantum Fully-Homomorphic Encryption

@ Kyoto Workshop on Quantum Information, Computation, and Foundation *Summer 2021*

### New Developments in Indistinguishability Obfuscation

@ Simons Workshop: New Developments in Obfuscation *Fall 2020*

@ Matches Made in Heaven: Cryptography and Theoretical Computer Science *Fall 2020*

@ Ethereum Foundation *Fall 2020*

@ ENS de Lyon/Royal Holloway/CWI *Fall 2020*

@ Monash University *Fall 2020*

### Post-Quantum Multi-Party Computation

@ TU Darmstadt/University of Warsaw *Fall 2021*

@ University of Bologna *Summer 2020*

@ UCLA *Summer 2020*

## Multi-Key Fully-Homomorphic Encryption in the Plain Model

@ Simons Institute for the Theory of Computing

*Summer 2020*

## Rate-1 Fully Homomorphic Encryption

@ Bay Area Crypto Day

*Fall 2019*

## Homomorphic Time-Lock Puzzles

@ Charles River Crypto Day

*Fall 2019*

## Concurrency and Privacy in Payment Channel Networks

@ VISA Research

*Fall 2017*

@ Friedrich-Alexander University

*Fall 2017*

## SUPERVISION

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### PostDocs

Pedro Branco (2023 - Present)

Monosij Maitra (2023 - 2024)

Samuel Crew (2023 - 2024)

Hendrik Waldner (2022 - 2023)

Behzad Abdolmaleki (2020 - 2023)

### Ph.D. Students

Alex Kulpe (2024 - Present)

Tianwei Zhang (2023 - Present)

Noemi Gläser (2020 - Present)

Phillip Gajland (2020 - Present)

Ahmadreza Rahimi (2021 - 2024): *“Registration-Based Encryption”*

### Ph.D. Committee

Justin Raizes, Carnegie-Mellon University

Valerio Cini, TU Vienna

### Internships

Darya Kaviani, UC Berkeley (2024)

Jesko Dujmovic, CISPA (2023)

Khashayar Barooti, EPFL (2022)

Alper Çakan, Carnegie-Mellon University (2022)

Justin Raizes, Carnegie-Mellon University (2022)

Valerio Cini, TU Vienna (2022)

Xiao Liang, Stony Brook University (2021)

## REFEREED PUBLICATIONS

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### **Polynomial Commitments from Lattices:**

#### **Post-Quantum Security, Fast Verification and Transparent Setup**

Valerio Cini, Giulio Malavolta, Ngoc Khanh Nguyen, and Hoeteck Wee

CRYPTO 2024

### **Robust Quantum Public-Key Encryption with Applications to Quantum Key Distribution**

Giulio Malavolta and Michael Walter

CRYPTO 2024 (Also presented at QIP 2024)

### **Time-Lock Puzzles from Lattices**

Shweta Agrawal, Giulio Malavolta, and Tianwei Zhang

CRYPTO 2024

### **A Computational Tsirelson's Theorem for the Value of Compiled XOR Games**

David Cui, Giulio Malavolta, Arthur Mehta, Anand Natarajan, Connor Paddock, Simon Schmidt, Michael Walter, and Tina Zhang

TQC 2024

### **Software with Certified Deletion**

James Bartusek, Vipul Goyal, Dakshita Khurana, Giulio Malavolta, Justin Raizes, and Bhaskar Roberts

EUROCRYPT 2024

### **Time-Lock Puzzles with Efficient Batch Solving**

Rachit Garg, Jesko Dujmovic, and Giulio Malavolta

EUROCRYPT 2024

### **SWOOSH: Efficient Lattice-Based Non-Interactive Key Exchange**

Phillip Gajland, Bor de Kock, Miguel Quaresma, Giulio Malavolta, and Peter Schwabe

USENIX 2024 (Also presented at Real-World Crypto 2024)

### **Public-Key Encryption with Quantum Keys**

Khashayar Barooti, Alex B. Grilo, Loïs Huguenin-Dumittan, Giulio Malavolta, Or Sattath, Quoc-Huy Vu, and Michael Walter

TCC 2023

### **Weakening Assumptions for Publicly-Verifiable Deletion**

James Bartusek, Dakshita Khurana, Giulio Malavolta, Alexander Poremba, and Michael Walter

TCC 2023

### **Distributed Broadcast Encryption from Bilinear Groups**

Dimitris Kolonelos, Giulio Malavolta, and Hoeteck Wee

ASIACRYPT 2023

### **Registered (Inner-Product) Functional Encryption**

Danilo Francati, Daniele Friolo, Monosij Maitra, Giulio Malavolta, Ahmadreza Rahimi, and Daniele Venturi

ASIACRYPT 2023

### **Two-Round Concurrent 2PC from Sub-Exponential LWE**

Behzad Abdolmaleki, Saikrishna Badrinarayanan, Rex Fernando, Giulio Malavolta, Amit Sahai, and

Ahmadreza Rahimi  
ASIACRYPT 2023

**Weak Zero-Knowledge via the Goldreich-Levin Theorem**  
Dakshita Khurana, Giulio Malavolta, and Kabir Tomer  
ASIACRYPT 2023

**Lattice-Based Timed Cryptography**  
Russell W. F. Lai and Giulio Malavolta  
CRYPTO 2023

**Lattice-Based Succinct Arguments from Vanishing Polynomials**  
Valerio Cini, Russell W. F. Lai, and Giulio Malavolta  
CRYPTO 2023

**On Concurrent Multi-Party Quantum Computation**  
Vipul Goyal, Xiao Liang, and Giulio Malavolta  
CRYPTO 2023 (Also presented at QCrypt 2023)

**StoRNA: Stateless Transparent Proofs of Storage-Time**  
Reyhaneh Rabbaninejad, Behzad Abdolmaleki, Giulio Malavolta, Antonis Michalas, and Amir Nabizadeh  
ESORICS 2023

**Efficient Registration-Based Encryption**  
Noemi Gläser, Dimitris Kolonelos, Giulio Malavolta, and Ahmadreza Rahimi  
CCS 2023

**Efficient Laconic Cryptography from Learning With Errors**  
Nico Döttling, Dimitris Kolonelos, Russell W. F. Lai, Chuanwei Lin, Giulio Malavolta, and Ahmadreza Rahimi  
EUROCRYPT 2023

**Multi-Key and Multi-Input Predicate Encryption from Learning with Errors**  
Danilo Francati, Daniele Friolo, Giulio Malavolta, and Daniele Venturi  
EUROCRYPT 2023 (Also published in the Journal of Cryptology)

**Laconic Function Evaluation for Turing Machines**  
Nico Döttling, Phillip Gajland, and Giulio Malavolta  
PKC 2023

**Transparent Batchable Time-lock Puzzles and Applications to Byzantine Consensus**  
Shravan Srinivasan, Julian Loss, Giulio Malavolta, Kartik Nayak, Charalampos Papamanthou, and Sri Aravinda Krishnan Thyagarajan  
PKC 2023

**Cryptographic Oracle-Based Conditional Payments**  
Varun Madathil, Sri Aravinda Krishnan Thyagarajan, Dimitrios Vasilopoulos, Lloyd Fournier, Giulio Malavolta, and Pedro Moreno-Sanchez  
NDSS 2023

**Candidate Trapdoor Claw-Free Functions from Group Actions  
with Applications to Quantum Protocols**

Navid Alamati, Giulio Malavolta, and Ahmadreza Rahimi  
TCC 2022

**Quantum Rewinding for Many-Round Protocols**  
Russell W. F. Lai, Giulio Malavolta, and Nicholas Spooner  
TCC 2022

**Steganography-Free Zero-Knowledge**  
Behzad Abdolmaleki, Nils Fleischhacker, Vipul Goyal, Abhishek Jain, and Giulio Malavolta  
TCC 2022

**Verifiable Timed Linkable Ring Signatures for Scalable Payments for Monero**  
Sri Aravinda Krishnan Thyagarajan, Giulio Malavolta, Fritz Schmidt and Dominique Schröder  
ESORICS 2022

**Everlasting UC Commitments from Fully Malicious PUFs**  
Bernardo Magri, Giulio Malavolta, Dominique Schröder, and Dominique Unruh  
Journal of Cryptology 2022

**Lattice-Based SNARKs:  
Publicly Verifiable, Preprocessing, and Recursively Composable**  
Martin Albrecht, Valerio Cini, Russell W. F. Lai, Giulio Malavolta, and Sri Aravinda Krishnan Thyagarajan  
CRYPTO 2022

**Succinct Classical Verification of Quantum Computation**  
James Bartusek, Yael Kalai, Alex Lombardi, Fermi Ma, Giulio Malavolta, Vinod Vaikuntanathan, Thomas Vidick, and Lisa Yang  
CRYPTO 2022

**Factoring and Pairings are not Necessary for iO: Circular-Secure LWE Suffices**  
Zvika Brakerski, Nico Döttling, Sanjam Garg, and Giulio Malavolta  
ICALP 2022

**Foundations of Coin Mixing Services**  
Noemi Gläser, Matteo Maffei, Giulio Malavolta, Pedro Moreno-Sanchez, Erkan Tairi, and Sri Aravinda Krishnan Thyagarajan  
CCS 2022

**Sleepy Channels: Bi-directional Payment Channels without Watchtowers**  
Lukas Aumayr, Sri Aravinda Krishnan Thyagarajan, Giulio Malavolta, Pedro Moreno-Sanchez, Matteo Maffei  
CCS 2022 (Also presented at SBC 2023)

**TiDY: Symbolic Verification of Timed Cryptographic Protocols**  
Gilles Barthe, Ugo Dal Lago, Giulio Malavolta, Itsaka Rakotonirina  
CCS 2022

**A Note on the Post-Quantum Security of (Ring) Signatures**  
Rohit Chatterjee, Kai-Min Chung, Xiao Liang, and Giulio Malavolta  
PKC 2022

### **Universal Atomic Swaps: Secure Exchange of Coins Across all Blockchains**

Sri Aravinda Krishnan Thyagarajan, Pedro Moreno-Sanchez, and Giulio Malavolta  
S&P 2022

### **Algebraic Restriction Codes and their Applications**

Divesh Aggarwal, Nico Döttling, Jesko Dujmovic, Mohammad Hajiabadi, Giulio Malavolta, and Maciej Obremski  
ITCS 2022 (Also published in Algorithmica)

### **Indistinguishability Obfuscation of Null Quantum Circuits and Applications**

James Bartusek and Giulio Malavolta  
ITCS 2022 (Also presented at QIP 2022)

### **Interaction Preserving Compilers for Secure Computation**

Nico Döttling, Vipul Goyal, Giulio Malavolta, and Justin Raizes  
ITCS 2022

### **Pre-Constrained Encryption**

Prabhanjan Ananth, Abhishek Jain, Zhengzhong Jin, and Giulio Malavolta  
ITCS 2022

### **Rate-1 Quantum Fully-Homomorphic Encryption**

Orestis Chardouvelis, Nico Döttling, and Giulio Malavolta  
TCC 2021

### **The Round Complexity of Quantum Zero-Knowledge**

Orestis Chardouvelis and Giulio Malavolta  
TCC 2021

### **Two-Round Maliciously Secure Computation with Super-Polynomial Simulation**

Amit Agarwal, James Bartusek, Vipul Goyal, Dakshita Khurana, and Giulio Malavolta  
TCC 2021

### **How to Build a Trapdoor Function from an Encryption Scheme**

Sanjam Garg, Mohammad Hajiabadi, Giulio Malavolta, and Rafail Ostrovsky  
ASIACRYPT 2021

### **Efficient CCA Timed Commitments in Class Groups**

Sri Aravinda Krishnan Thyagarajan, Guilhem Castagnos, Fabien Laguillaumie, and Giulio Malavolta  
CCS 2021

### **Compact Ring Signatures from Learning with Errors**

Rohit Chatterjee, Sanjam Garg, Mohammad Hajiabadi, Dakshita Khurana, Xiao Liang, Giulio Malavolta, Omkant Pandey, and Sina Shiehian  
CRYPTO 2021

### **A Geometric Approach to Homomorphic Secret Sharing**

Yuval Ishai, Russell W. F. Lai, and Giulio Malavolta  
PKC 2021

### **Cryptocurrencies with Security Policies and Two-Factor Authentication**

Florian Brauer, Vipul Goyal, and Giulio Malavolta



EUROS&P 2021

**Post-Quantum Multi-Party Computation**

Amit Agarwal, James Bartusek, Vipul Goyal, Dakshita Khurana, and Giulio Malavolta  
EUROCRYPT 2021

**Unbounded Multi-Party Computation from Learning with Errors**

Prabhanjan Ananth, Abhishek Jain, Zhengzhong Jin, and Giulio Malavolta  
EUROCRYPT 2021

**Lockable Signatures for Blockchains: Scriptless Scripts for all Signatures**

Sri Aravinda Krishnan Thyagarajan and Giulio Malavolta  
S&P 2021

**Constant Ciphertext-Rate Non-Committing Encryption from Standard Assumptions**

Zvika Brakerski, Pedro Branco, Nico Döttling, Sanjam Garg, and Giulio Malavolta  
TCC 2020

**Multi-Key Fully-Homomorphic Encryption in the Plain Model**

Prabhanjan Ananth, Abhishek Jain, Zhengzhong Jin, and Giulio Malavolta  
TCC 2020

**A Combinatorial Approach to Quantum Random Functions**

Nico Döttling, Giulio Malavolta, and Sihang Pu  
ASIACRYPT 2020

**Multi-Client Oblivious RAM with Poly-Logarithmic Communication**

Sherman Chow, Katharina Fech, Russell W. F. Lai, and Giulio Malavolta  
ASIACRYPT 2020

**Tight Verifiable Delay Functions**

Nico Döttling, Sanjam Garg, Giulio Malavolta, and Prashant Nalini Vasudevan  
SCN 2020

**Verifiable Timed Signatures Made Practical**

Sri Aravinda Krishnan Thyagarajan, Adithya Bhat, Giulio Malavolta, Nico Döttling, Aniket Kate, and Dominique Schröder  
CCS 2020

**Minting Mechanisms for Proof of Stake Blockchains**

Dominic Deuber, Nico Döttling, Bernardo Magri, Giulio Malavolta, and Sri Aravinda Krishnan Thyagarajan  
ACNS 2020

**Candidate iO from Homomorphic Encryption Schemes**

Zvika Brakerski, Nico Döttling, Sanjam Garg, and Giulio Malavolta  
EUROCRYPT 2020 (Top-three paper, invited and published in the Journal of Cryptology)

**Statistical Zaps and New Oblivious Transfer Protocols**

Vipul Goyal, Abhishek Jain, Zhengzhong Jin, and Giulio Malavolta  
EUROCRYPT 2020

**Leveraging Linear Decryption: Rate-1 Fully Homomorphic Encryption and Time-Lock Puzzles**

Zvika Brakerski, Nico Döttling, Sanjam Garg, and Giulio Malavolta  
TCC 2019

**Rate-1 Trapdoor Functions from the Diffie-Hellman Problem**

Nico Döttling, Sanjam Garg, Mohammad Hajiabadi, Kevin Liu, and Giulio Malavolta  
ASIACRYPT 2019

**Succinct Arguments for Bilinear Group Arithmetic: Practical Structure-Preserving Cryptography**

Russell W. F. Lai, Giulio Malavolta, and Viktoria Ronge  
CCS 2019

**Laconic Conditional Disclosure of Secrets and Applications**

Nico Döttling, Sanjam Garg, Vipul Goyal, and Giulio Malavolta  
FOCS 2019

**Arithmetic Garbling from Bilinear Maps**

Nils Fleischhacker, Giulio Malavolta, and Dominique Schröder  
ESORICS 2019

**Homomorphic Time-Lock Puzzles and Applications**

Giulio Malavolta and Sri Aravinda Krishnan Thyagarajan  
CRYPTO 2019

**Subvector Commitments with Applications to Succinct Arguments**

Russell W. F. Lai and Giulio Malavolta  
CRYPTO 2019

**Trapdoor Hash Functions and their Applications**

Nico Döttling, Sanjam Garg, Yuval Ishai, Giulio Malavolta, Tamer Mour, and Rafail Ostrovsky  
CRYPTO 2019

**Incremental Proofs of Sequential Work**

Nico Döttling, Russell W. F. Lai, and Giulio Malavolta  
EUROCRYPT 2019

**Efficient Invisible and Unlinkable Sanitizable Signatures**

Xavier Bultel, Pascal Lafourcade, Russell W. F. Lai, Giulio Malavolta, Dominique Schröder, and Sri Aravinda Krishnan Thyagarajan  
PKC 2019

**Anonymous Multi-Hop Locks for Blockchain Scalability and Interoperability**

Giulio Malavolta, Pedro Moreno-Sanchez, Clara Schneidewind, Aniket Kate, and Matteo Maffei  
NDSS 2019 (Finalist for the EU-CSAW competition for applied research)

**My Genome Belongs to Me: Controlling Third Party Computation on Genomic Data**

Dominic Deuber, Christoph Egger, Katharina Fech, Giulio Malavolta, Sri Aravinda Krishnan Thyagarajan, Florian Battke, Claudia Durand, and Dominique Schröder  
PETS 2019

### **Homomorphic Secret Sharing for Low Degree Polynomials**

Russell W. F. Lai, Giulio Malavolta, and Dominique Schröder  
ASIACRYPT 2018

### **Functional Credentials**

Dominic Deuber, Matteo Maffei, Giulio Malavolta, Max Rabkin, Dominique Schröder, and Mark Simkin  
PETS 2018

### **Efficient Ring Signatures in the Standard Model**

Giulio Malavolta and Dominique Schröder  
ASIACRYPT 2017

### **Subset Predicate Encryption and its Applications**

Jonathan Katz, Matteo Maffei, Giulio Malavolta, and Dominique Schröder  
CANS 2017

### **Concurrency and Privacy with Payment-Channel Networks**

Giulio Malavolta, Pedro Moreno-Sanchez, Aniket Kate, Matteo Maffei, and Srivatsan Ravi  
CCS 2017

### **Maliciously Secure Multi-Client ORAM**

Matteo Maffei, Giulio Malavolta, Manuel Reinert, and Dominique Schröder  
ACNS 2017

### **Switch Commitments: A Safety Switch for Confidential Transactions**

Tim Ruffing and Giulio Malavolta  
BITCOIN 2017

### **SilentWhispers: Enforcing Security and Privacy in Decentralized Credit Networks**

Giulio Malavolta, Pedro Moreno-Sanchez, Aniket Kate, and Matteo Maffei  
NDSS 2017

### **Efficient Unlinkable Sanitizable Signatures from Signatures with Re-Randomizable Keys**

Nils Fleischhacker, Johannes Krupp, Giulio Malavolta, Jonas Schneider, Dominique Schröder, and Mark Simkin

PKC 2016 (Invited to the Journal of IET Information Security)

### **Privacy and Access Control for Outsourced Personal Records**

Matteo Maffei, Giulio Malavolta, Manuel Reinert, and Dominique Schröder  
S&P 2015 (Also published in the Journal of Computer Security)

### **Towards Security and Privacy for Outsourced Data in the Multi-Party Setting (Brief Announcement)**

Matteo Maffei, Giulio Malavolta, Manuel Reinert, and Dominique Schröder  
PODC 2014

## **LANGUAGES**

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Italian native speaker and fluent in English.