

Felipe Lacerda

CONTACT INFORMATION

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INTERESTS

Security, machine learning, distributed systems.

EDUCATION

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| 2011–2015 | PhD in Computer Science, UNIVERSIDADE DE BRASÍLIA
Thesis: Classical leakage-resilient circuits from quantum fault-tolerant computation
Advisor: Prof. Anderson C. A. Nascimento |
| 2006–2010 | Bachelor in Physics, UNIVERSIDADE DE BRASÍLIA
Bachelor thesis: Simulation of water intercalation in laponite clays by Monte Carlo methods with applications in small angle X-ray scattering experiments
Advisor: Prof. Geraldo José da Silva |
| 2012–2014 | Academic guest, ETH ZURICH
Supervisor: Prof. Renato Renner |

PROFESSIONAL EXPERIENCE

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| 2015 – PRESENT | Postdoctoral researcher, AARHUS UNIVERSITY
Supervisor: Ivan Damgård |
| 2011 | Software engineer, UNIVERSIDADE DE BRASÍLIA
Helped develop a system for support and management of document scanning services in the Brazilian federal government. |
| 2011 | Teaching assistant, UNIVERSIDADE DE BRASÍLIA
Set up an environment providing networking tools and a network simulators, appropriate for teaching a computer networks class. |
| 2010 – 2011 | System administrator, UNIVERSIDADE DE BRASÍLIA
Helped setting up a computer cluster for the simulation of physical systems. |

PUBLICATIONS

- I. Cascudo, I. Damgård, F. Lacerda, S. Ranellucci. “Oblivious Transfer from Any Non-Trivial Elastic Noisy Channel via Secret Key Agreement”. *Accepted at TCC 2016-B*. Available online on <https://eprint.iacr.org/2016/120>.
- F. Lacerda, J.M. Renes, V. Scholz. “Coherent state constellations for Bosonic Gaussian channels”. *Accepted at the International Symposium on Information Theory (ISIT)*, 2016.
- F. Lacerda, J.M. Renes, R. Renner. “Classical leakage resilience from fault-tolerant quantum computation”. *Submitted to the Journal of Cryptology*. Available online on <http://arxiv.org/abs/1404.7516>.

R. Dowsley, F.G. Lacerda, A.C.A. Nascimento. "Oblivious transfer in the bounded storage model with errors". In *IEEE International Symposium on Information Theory (ISIT)* (pp. 1623-1627), 2014.

PREPRINTS

F. Lacerda, J.M. Renes, V. Scholz. "Coherent state constellations and polar codes for Bosonic Gaussian channels". Available online on <https://arxiv.org/abs/1603.05970>.

I. Cascudo, I. Damgård, F. Lacerda, S. Ranellucci. "Oblivious Transfer from Any Non-Trivial Elastic Noisy Channels via Secret Key Agreement". Available online on <https://eprint.iacr.org/2016/120>.

LANGUAGES

PORTUGUESE: Native
ENGLISH: Fluent
GERMAN: Fluent
DANISH: Intermediate