

Unit Name

Applied Cryptography Unit
Adjunct Professor Carlos F Cid

Collaborations

Partisia, Denmark, industry-academia collaboration on privacy-preserving technologies

Prof Ludovic Perret, EPITA, Paris, France, hybrid quantum/post-quantum cryptographic protocols for secure satellite communication

Research Personnel

Samuel Bouaziz Ermann, Postdoctoral Scholar

Jyotirmoy Basak, Postdoctoral Scholar

Scholarly Contributions and Creative Productions (by Faculty)

Books and Edited Books

1. Advances in Information and Computer Security
20th International Workshop on Security, IWSEC 2025, Fukuoka, Japan, November 25–27, 2025, Proceedings. Lecture Notes in Computer Science 2025, 554.

Journal Article

1. Gupta, S.; Munro, W. J.; Cid, C. F.
Threshold (Q,P) Distillation of Multipartite Quantum Correlations. Phys. Rev. Res. 2026, 8, L012036.

Presentation at Conference

1. Cid, C. F.
Cryptography and Quantum Technologies: Friends or Foes? QIT Norway 2025.
<https://www.qitnorway.no/>

Seminars

1. Cid, C. F.
Quantum-Safe Communications. 2025.
<https://kongsbergagenda.no/events/the-quantum-technology-hour>
2. Cid, C. F.
Quantum Cyber Security. 2025.
<https://www.uib.no/en/ai/174580/uib-ai-13-quantum-technology>
3. Cid, C. F.
Cryptography in a Post-Quantum World. 2025.

Scholarly Contributions (by Unit Members)

Name of Unit Member	Type	Title	Outlet	Publisher	Year Pub
Jyotirmoy Basak	Conference Proceedings	Post-quantum Security of Key-Alternating Feistel Ciphers	ASIACRYPT 2025	Springer	2025

Honors, Awards & Fellowships

Term 1 2022 - Ongoing Community Fellow, 2022, International Cyber Security Center of Excellence (INCS-CoE)

External Service

Term 3 2025 - Ongoing standardisation committee chair - SN/K 617 Quantum technologies, Standard Norge, special committee of the Norwegian standard body for Quantum Technologies. [Fiscal Year: 2025-06-01]

Term 3 2025 - Ongoing standardisation committee member (expert) - IEC/ISO JTC3 Quantum technologies, IEC/ISO, committee of the European standardisation bodies IEC/ISO for Quantum Technologies. [Fiscal Year: 2025-05-01]

Term 2 2025 - Term 3 2025 program committee member, QSHC 25 - Workshop on Quantum-Safe Hybrid Cryptography (Munich, Jul 2025) [Fiscal Year: 2025-04-17]

Term 2 2025 - Term 1 2025 program committee co-chair, IWSEC 2025 - 20th International Workshop on Security (Fukuoka, Nov 2025) [Fiscal Year: 2025-03-01]

Term 1 2024 - Ongoing standardisation committee member (expert) - SN/K 617 Quantum technologies, Standard Norge, special committee of the Norwegian standard body for Quantum Technologies. [Fiscal Year: 2024-11-01]

Term 1 2024 - Ongoing standardisation committee member (expert) - CEN/CLC JTC 22 Quantum technologies, CEN/CELENEC, committee of the European standardisation bodies CEN/CLC for Quantum Technologies. [Fiscal Year: 2024-12-01]

Term 2 2024 - Term 1 2025 guest editor, Special Issue on Code-based Cryptography, Design, Codes and Cryptography journal (Springer) [Fiscal Year: 2024-04-01]

Other Institutional Service

Term 2 2026 - Term 2 2026 TSVP Thematic Program "Isogeny-Based Cryptography", (University) [Fiscal Year: 2026-01-13]

Term 3 2023 - Ongoing Information Security Committee, (University) [Fiscal Year: 2024-05-09]