Clément Ducros

3rd year PhD student in search of a PostDoc. My main interests lie in secure computing and coding theory.

✉ ducros.clement.dc@gmail.com 🌐 https://www.clement-ducros.github.io

WORK EXPERIENCE

Oct 2021 – · · · · **PhD student, IRIF, Université de Paris**
under the supervision of Geoffroy Couteau and Alain Couvreur. *Linear Codes for Quantum-Resistant Secure Computation.*

March 2021 – Sept 2021 **Research intern in cryptography at IRIF, Université de Paris**
under the supervision of Geoffroy Couteau. *Multiparty Secure Computation via Coding Theory.*

July 2019 – August 2019 **Research intern in algorithmic at IRIF, Université de Paris**
under the supervision of Jean Krivine. *Modelling of concurrent processors using graphs and analysis of the induced structure.*

RESEARCH PUBLICATIONS

Conference Proceedings

1 Bombar, M., Couteau, G., Couvreur, A. & Ducros, C. *Correlated Pseudorandomness from the Hardness of Quasi-Abelian Decoding* in *CRYPTO 2023, Part IV* (Springer, Heidelberg, Aug. 2023), 567–601.

2 Couteau, G. & Ducros, C. *Pseudorandom Correlation Functions from Variable-Density LPN, Revisited* in *PKC 2023, Part II* (eds Boldyreva, A. & Kolesnikov, V.) **13941** (Springer, Heidelberg, May 2023), 221–250.

EDUCATION

2021 – · · · · **Ph.D Thesis, Universé de Paris, IRIF**
Thesis title: *Linear Codes for Quantum-Resistant Secure Computation.*

2020 – 2021 **Parisian Master of Research in Computer Science (MPRI), Université de Paris**
Specialization in algorithmic and cryptography.

2018 – 2021 **Engineering school, Télécom Paris, Palaiseau**
Algebra, Cryptography, Algorithmic and Theoretical Computer Science.

2016 – 2018 **Preparatory class for entrance to Grandes Ecoles (MPSI,MP*), Lycée Janson de Sailly, Paris**
Maths, Physics and Computer Science.

July 2016 **French equivalent of A Levels (with highest honours), Lycée le Corbusier, Poissy**
Maths, Physics and Biology.

TEACHING

2021 – · · · · Teaching assistant at Université de Paris Cité: Java, Python, Algorithmic, project managament (bachelor level).

SKILLS

Languages French (native language), English (B2/C1), Korean (A2)

Coding Java, Python, LaTeX

Misc. Academic research, teaching, travel, game of Go