

Florian MÉHATS

Born October 10, 1970  
French citizenship

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## PERSONAL PROFILE

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Professor in applied mathematics, with research interests in

- for the past 5 years, homomorphic cryptography and machine learning,
- for 30 years, partial differential equations, numerical analysis, mathematical and numerical modelling of interacting particles, with applications to plasma physics, nanoelectronics and astrophysics.

Scientific advisor for companies, particularly in cryptography and machine learning.

## ACADEMIC EXPERIENCE

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- Since 2021      Research associate at Ravel Technologies, a startup in the field of homomorphic cryptography (on leave from University of Rennes).
- Since 2005      Professor of Mathematics at the University of Rennes, member of IRMAR. Appointed to *classe exceptionnelle* by CNU in 2016.
- 2015–2017      Director, *Institut de Recherche Mathématique de Rennes* (IRMAR, UMR CNRS with 5 supervisory bodies and 240 members).
- 2012–2015      Elected member of the *Conseil National des Universités* (CNU), section 26.
- 2006–2015      Head of of IRMAR’s Numerical Analysis Team (30 members).  
In charge of the *Magistère de Mathématiques de Rennes*.
- 1999 – 2005      Assistant Professor at the University of Toulouse 3,  
member of the Institute *Mathématiques pour l’Industrie et la Physique*.
- 1998 – 1999      Specialized design engineer in cryptographic systems at CELAR (Bruz),  
under the status of *ingénieur de l’armement*, research option.

## MAIN SCIENTIFIC ACHIEVEMENTS

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- 93 scientific publications.
- 6 patents in homomorphic cryptography.
- Advisor of 11 PhD theses.
- Principal investigator of two major ANR projects : QUATRIN (2007–2011, 210 000 euros) and MOONRISE (2015–2019, 500 000 euros).

## EDUCATION

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- 2004              Habilitation degree, University of Toulouse 3.
- 1994 – 1997      PhD thesis, CMAP, École polytechnique (advisor: P.-A. Raviart).
- 1993 – 1994      Master 2 of Numerical Analysis, Paris VI and École polytechnique.
- 1990 – 1993      École polytechnique engineering diploma.