





# Geoffroy COUTEAU

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 <http://www.geoffroycouteau.fr>

## WORK EXPERIENCE

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OCT 2017 – CURRENT	Postdoctoral researcher, Karlsruher Institut für Technologie, Germany
OCT 2014 – SEP 2017	PhD student, École Normale Supérieure de Paris, Crypto Team under the supervision of David Pointcheval and Hoeteck Wee Zero-Knowledge Proofs for Secure Computation
MAR 2014 – SEP 2014	Research intern in cryptography in the Crypto team at École Normale Supérieure de Paris Construction and security proofs of secure multiparty computation protocols for biometric authentication
JUL 2012 – SEP 2012	Research and Development internship at Criteo, Paris Construction and implementation of probabilistic algorithms, data mining, software and web development (C#, ASP.NET)

## PUBLICATIONS

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Conferences	Efficient Secure Comparison Protocols <i>In ACNS 2018</i> Geoffroy Couteau
	Efficient Designated-Verifier Non-Interactive Zero-Knowledge Proofs of Knowledge <i>In EUROCRYPT 2018</i> Pyrros Chaidos, and Geoffroy Couteau
	Homomorphic Secret Sharing: Optimizations and Applications <i>In CCS 2017</i> Elette Boyle, Geoffroy Couteau, Niv Gilboa, Yuval Ishai, and Michele Orrù
	Removing the Strong RSA Assumption from Arguments over the Integers <i>In EUROCRYPT 2017</i> Geoffroy Couteau, Thomas Peters, and David Pointcheval
	Encryption Switching Protocols <i>In CRYPTO 2016</i> Geoffroy Couteau, Thomas Peters, and David Pointcheval
	Implicit Zero-Knowledge Arguments and Applications to the Malicious Setting <i>In CRYPTO 2015</i> Fabrice Benhamouda, Geoffroy Couteau, David Pointcheval, and Hoeteck Wee
Workshops	Secure Distributed Computation on Private Inputs <i>In FPS 2015</i> Geoffroy Couteau, Thomas Peters, and David Pointcheval
Manuscripts	Revisiting Covert Multiparty Computation <i>Cryptology ePrint Archive, Report 2016/951</i> Geoffroy Couteau

## HONORS AND AWARDS

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2018 | Pré-GDR IT security PhD prize, Honorary Mention

## EDUCATION

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2014 – 2017 | PhD Thesis, École Normale Supérieure de Paris, Crypto Team  
*Zero-Knowledge Proofs for Secure Computation*

2013 – 2014 | Parisian Master of Research in Computer Science (MPRI), University of Paris-Diderot, Paris  
*Specialization in algorithmic and cryptography, highest honours*

2011 – 2014 | Engineering school, Télécom ParisTech, Paris  
*Algebra, Cryptography, Algorithmic and Theoretical Computer Science*

2008 – 2011 | Preparatory class for entrance to Grandes Ecoles (MPSI, MP\*), Lycée Buffon, Paris

JUL 2008 | Bachelor's degree, highest honours

## TEACHING

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2017 –  
CURRENT | Bachelor thesis supervisor at KIT, Germany

2014 – 2017 | Teaching assistant at Polytech Paris UMPC  
2016 – 2017 Applied Algebra, Compiling (master level)  
2014 – 2016 Java, C (bachelor level), Compiling (master level)

## INVITED SPEAKER

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MAY 2018 | Workshop on the Theory and Practice of Secure Multiparty Computation (TPMPC), 2018

MAR 2017 | CryptoAction Symposium, 2017

MAY 2016 | Workshop on the Theory and Practice of Secure Multiparty Computation (TPMPC), 2016

## SERVICES TO THE COMMUNITY

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### Program Committee

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2018 | INDOCRYPT 2018

### External reviewer

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CONFER-  
ENCES | CCS 2018; EUROCRYPT 2018; PKC 2018; ASIACRYPT 2017; TCC 2017; ICALP 2017; ACNS 2017; PKC 2017; CT-RSA 2017; CRYPTO 2016; PKC 2016; CT-RSA 2015; EUROCRYPT 2015.

JOURNALS | Transactions on Information Forensics Security; Theoretical Computer Science; Design, Codes, and Cryptography.

## Organization

2017 | Organizer of the Crypto Working Group, ENS  
Participation to the organization of EUROCRYPT 2017

## LANGUAGES

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FRENCH: Native  
ENGLISH: Fluent (C1 CEFR)  
GERMAN: Intermediate (B1 CEFR)

## COMPUTER SKILLS

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LANGUAGES: C/C++, C#, Java, Python  
SOFTWARES: Mac, Linux (Ubuntu), Windows, Eclipse, Visual Studio, L<sup>A</sup>T<sub>E</sub>X, svn

## INTEREST AND ACTIVITIES

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MUSIC: Music group (one man band), instruments (bouzouki, banjitar, guitar)  
OTHERS: Improvisational theatre, game of Go, writing