

## Yannis Juglaret

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## Research Interests

Easing the writing of efficient and secure software.

## Education

Ph.D. in Computer Science, Inria and Paris 7 University 10/2015 – now

Topic: “Micro-Policies: High-Assurance Hardware-Assisted Security Monitors”

Advisers: Cătălin Hrițcu, Bruno Blanchet

Research-oriented M.Sc. in Computer Science from Paris 7 University 9/2014 – 9/2015

*Master Parisien de Recherche en Informatique (MPRI)*

Thesis topic: “Towards a Fully Abstract Compiler Using Micro-Policies:  
Secure Compilation for Mutually Distrustful Components”

Distinction: High Honors

M.Sc. in Computer Engineering from ENSEA: *Diplôme d'Ingénieur* 9/2011 – 7/2014

Graduate School in Electrical & Computer Engineering and Telecommunications

Thesis topic: “Deep Data Extraction in Social Networks”

Ranked: 1<sup>st</sup> / 28

## Publications

Y. Juglaret, C. Hrițcu, A. Azevedo de Amorim and B. C. Pierce. *Beyond Good and Evil: Formalizing the Security Guarantees of Low-Level Compartmentalization*. Draft, arXiv:1602.04503, February 2016.

Y. Juglaret, C. Hrițcu, A. Azevedo de Amorim, B. C. Pierce, A. Spector-Zabusky and A. Tolmach. *Towards a Fully Abstract Compiler Using Micro-Policies: Secure Compilation for Mutually Distrustful Components*. Technical Report, arXiv:1510.00697, October 2015.

Y. Juglaret, C. Hrițcu. *Secure Compilation Using Micro-Policies (Extended Abstract)*. In *Workshop on Foundations of Computer Security (FCS 2015)*, July 2015.

## Work Experience

Teaching assistant at Paris 7 University – Programming, Databases 9/2015 – now

Research intern at Inria, Paris 2/2015 – 8/2015

Topic: “Towards a Fully Abstract Compiler Using Micro-Policies:  
Secure Compilation for Mutually Distrustful Components”

Advisers: Cătălin Hrițcu, Bruno Blanchet

Software engineering intern at Semiocast, Paris 2/2014 – 7/2014

Topic: “Deep Data Extraction in Social Networks”

Advisers: David Julien, Paul Guyot

Research intern at Versailles Saint-Quentin University (UVSQ) 7/2013 – 8/2013  
Topic: “New Approaches for Solving Simple Stochastic Games”  
Adviser: Yann Strozecki

### Attended Summer Schools

FOSAD 2015 – Foundations of Security Analysis and Design 9/2015  
Open session talk: “*Secure Compilation Using Micro-Policies*”

### Grants

Ph.D. grant co-funded by DGA and Inria 10/2015 – 10/2018

Travel grants: ACM POPL 2016 (PLMW and SRC), FOSAD 2015, IEEE CSF 2015

### References

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Inria Prosecco team, 12 rue Simone Iff, 75012 PARIS, France  
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