

French-American Doctoral Exchange Program

FADEX 2017 – Draft Agenda, June 12-16, 2017

Cybersecurity

--- Monday, June 12, 2017 ---

Nancy

LORIA
(Address)

9:00 am – 9:30 am: *Introduction*
Hervé Martin, Jean-Yves Marion

9:30 am – 10:30 am: *Keynote Speech*
Steve Kremer, DR Inria, ERC
Emmanuel Thomé, DR Inria

11:00 am – 12:00 pm: *FADEX Laureates' Pitch*

Elissa Redmiles, University of Maryland, **Geoffroy Couteau**, École Normale Supérieure, **Joshua Joy**, University of California – Los Angeles, **Pierre-Marie Bajan**, Université Paris-Saclay, **Elisavet Kozyri**, Cornell University, **Sylvain Cecchetto**, Université de Lorraine, **Fatma Betül Durak**, Rutgers University, **Cédric Lefebvre**, Université de Toulouse, **Mehdi Sabraoui**, University of Louisville, **Hoang-Long Nguyen**, Université de Lorraine

1:30 pm – 4:00 pm: *Student Presentations*
Chairs (TBC)

Soteris Demetriou, University of Illinois at Urbana-Champaign, “Tackling Emerging Security and Privacy Threats Stemming from Latent Objects in the Internet of Things”

Anca Nitulescu, Ecole Normale Supérieure, “Efficient Protocols for Privacy and Integrity in the Cloud”

Mahmood Sharif, Carnegie Mellon University, “The Security of State-of-the-Art Machine-Learning Algorithms in Adversarial Settings”

Maria Méndez Real, Université de Bretagne-Sud, “Secure Deployment of Parallel Applications on Many-Core Architectures”

Yixin Sun, Princeton University, “Designing Next-Generation Anonymity Systems”

Pierre Laperdrix, INSA de Rennes, “Secretless moving-target against browser fingerprinting”

Adrian Tang, Columbia University, “Rethinking Security at Commodity Hardware-Software Interfaces”

Sophie Dramé-Maigné, Télécom SudParis, “Dynamic token-based authorization systems for securing communications in the Internet of Things”

James Wagner, DePaul University, “Interpreting Relational Database Behavior through a Universal Storage Model”

Damien Marion, Télécom ParisTech, “Advanced Side Channel Attacks Against Embedded Protected Systems”

4:00 pm – 6:00 pm: *High-Security*
Computing Laboratory Visit

7:00 pm: *Social Event*

--- Tuesday, June 13, 2017 ---

Nancy

LORIA
(Address)

9:00 am – 10:00 am: *LORIA Lab Presentations*

10:00 am – 10:30 am: *Poster Session*

10:00 am – 12:00 pm: *Workshop between US and French PhD students*
Chairs (TBC)

2:30 pm: *Train (Nancy – Rennes)*

--- Wednesday, June 14, 2017 ---

Rennes

IRISA

Campus de Beaulieu - 263 avenue du Général Leclerc
35042 Rennes - Salle Métivier (TBC)

9:00 am – 9:30 am: *Introduction*

9:30 am – 10:30 am: *Keynote Speeches*

Gildas Avoine (INSA Rennes, IRISA, IUF)
“Cryptanalytic Time-memory Trade-offs Applied to Password Cracking”

Olivier Heen (Technicolor Security Office)
“Cumulative Effects of Account and Password Leaks”

10:30 am – 11:30 am: FADEX Laureates' Pitch

Soteris Demetriou, University of Illinois at Urbana-Champaign, **Anca Nitulescu**, Ecole Normale Supérieure, **Mahmood Sharif**, Carnegie Mellon University, **Maria Méndez Real**, Université de Bretagne-Sud, **Yixin Sun**, Princeton University, **Pierre Laperdrix**, INSA de Rennes, **Adrian Tang**, Columbia University, **Sophie Dramé-Maigné**, Télécom SudParis, **James Wagner**, DePaul University, **Damien Marion**, Télécom ParisTech,

1:00 pm – 4:00 pm: Student Presentations
Chairs (TBC)

Elissa Redmiles, University of Maryland, "Toward Personalized and Effective System Security via User Education and Behavior Change"

Geoffroy Couteau, École Normale Supérieure, "Secure Two-Party Computation"

Joshua Joy, University of California – Los Angeles, "Real-Time Privacy-Preserving Data Collection"

Pierre-Marie Bajan, Université Paris-Saclay, "Simulation of activities and attacks: application to cyberdefense"

Elisavet Kozyri, Cornell University, "Reactive Information Flow Control: Static and Dynamic Enforcement"

Sylvain Cecchetto, Université de Lorraine, "Data flow analysis in malicious binary codes and detection of malicious behaviors"

Fatma Betül Durak, Rutgers University, "Do We Compute On Encrypted Data Securely?"

Cédric Lefebvre, Université de Toulouse, "Homomorphic encryption and networks services"

Mehdi Sabraoui, University of Louisville, "Formal Methods for Verifying Secure ICS Protocols"

Hoang-Long Nguyen, Université de Lorraine, "A Trust Based Authorization Model and Framework for the Cloud"

4:00 pm – 6 pm: High-Security
Computing Laboratory Visit

7:00 pm: Social Event

--- Thursday, June 15, 2017 ---

Rennes

IRISA

Campus de Beaulieu - 263 avenue du Général Leclerc
35042 Rennes – Salle Métivier (TBC)

8:30 am – 10:00 am: IRISA Lab Presentations

10:00 am – 10:30 am: Poster Session

10:00 am – 12:00 pm: Workshop between US and
French PhD students
Chairs (TBC)

3:05 pm: Train (Rennes – Paris)

--- Friday, June 16, 2017 ---
Paris

INRIA
(Paris)

9:00 am – 9:30 am: Inria Presentation

David Pointcheval, Cascade
Catuscia Palamidessi, Comete
Gaëtan Leurent, Secret
Catalin Hritcu, Prosecco

9:30 am – 10:30 am: Inria Lab Presentations

10:30 am – 12:00 am: FADEX Laureates' Pitch

Elissa Redmiles, University of Maryland, **Geoffroy Couteau**, École Normale Supérieure, **Joshua Joy**, University of California – Los Angeles, **Pierre-Marie Bajan**, Université Paris-Saclay, **Elisavet Kozyri**, Cornell University, **Sylvain Cecchetto**, Université de Lorraine, **Fatma Betül Durak**, Rutgers University, **Cédric Lefebvre**, Université de Toulouse, **Mehdi Sabraoui**, University of Louisville, **Hoang-Long Nguyen**, Université de Lorraine, **Soteris Demetriou**, University of Illinois at Urbana-Champaign, **Anca Nitulescu**, Ecole Normale Supérieure, **Mahmood Sharif**, Carnegie Mellon University, **Maria Méndez Real**, Université de Bretagne-Sud, **Yixin Sun**, Princeton University, **Pierre Laperdrix**, INSA de Rennes, **Adrian Tang**, Columbia University, **Sophie Dramé-Maigné**, Télécom SudParis, **James Wagner**, DePaul University, **Damien Marion**, Télécom ParisTech,

2:30 pm: ANSSI Visit (TBC)

Partners

