



Erasmus Mundus Joint Master degree  
Photonics for Security Reliability and Safety

<https://www.master-photonics4security.eu>

# PSRS Research Day

Laboratoire Hubert Curien - November 3, 2020

Online workshop at

[####](#)

## Program

- 9:30 AM **Introduction: short presentation of laboratory Hubert Curien**  
by Nathalie Destouches (Coordinator of the PSRS EMJMD)
- 9:40 AM **Ultrafast light-matter interaction**  
by Razvan Stoian (RMI<sup>1</sup>\ultrafast laser processing, theory, application & transfer group))
- 10:00 AM **Some security features by printing**  
by Mathieu Hébert (ISCV<sup>2</sup>\Characterization & Modelling of MATerials group)
- 10:30 AM **Unconventional imaging and holographic microscopy**  
by Dylan Brault, Thomas Olivier, and Corinne Fournier (ISCV<sup>1</sup> \ Optical Design & Image Reconstruction group)
- 11:00 AM **Video surveillance of chairlifts**  
by Christophe Ducottet (ISCV<sup>1</sup> \ Image Understanding & Analysis group)
- 11:15 AM **Analysis of micro-expressions**  
by Olivier Alata (ISCV<sup>1</sup> \ Image Understanding & Analysis group)
- 11:30 AM **Presentation of ANR project muDialBot**  
by Olivier Alata and Christophe Ducottet (ISCV<sup>1</sup> \ IUA group)
- 12 :00 AM **Data intelligence: from theory to practice**  
by Remi Emonet (*Data Intelligence* team/ Machine learning group)

Lunch break

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\* Radiation Matter interaction

\* Image Science & Computer Vision team

01:30 PM ***The scientific and international ambitions addressed by the Graduate School Manutech-Sleight***

by Florence Garrelie (Head of Laboratoire Hubert Curien and Coordinator of Manutech-SLEIGHT)

02:00 PM ***Diffraction gratings: fabrication technologies and applications***

by Yves Jourlin (Micro-nano structuring \ Diffraction gratings group)

02:30 PM ***Confidence based local feature selection for material classification***

by Damien Muselet (ISCV<sup>1</sup> \ Image Understanding & Analysis group)

03:00 PM ***Laser-empowered Random Metasurfaces for White Light Printed Image Multiplexing***

by Nathalie Destouches (Micro-nano-structuring \ Nanoparticles group)

03:20 PM ***Mining laser-induced colors of random metasurfaces using machine learning***

by Hongfeng Ma (Micro-nano-structuring \ Nanoparticles group)

Conclusion

