# Florent BESSIN

PhD Student in Nonlinear Fiber Optics

## CONTACT

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## SKILLS

- Matlab, computer algebra system
- Nonlinear Fiber Optics
- Design of fiber optics experimental setup
- Paper writing/ Oral communications
- Teamwork
- Pedagogy

## LANGUAGES

- French: Mother tongue
- English: Fluent
- Spanish: Basic

## HOBBIES

- Astronomy
- Sports: Football, Running

## EDUCATION

**10/2016-10/2019** **PhD-PhLAM Laboratory**
University of Lille, FR

**09/2014-07/2016** **MSc in Physics: Light and Matter**
University of Lille, FR

**09/2011-07/2014** **BSc in Physics**
University of Caen, FR

## EXPERIENCE

**03/2020-** **Marie Curie Postdoctoral fellow-AIPT Laboratory, Aston University, UK**

Supervisor: Prof. Nick Doran
Development of fiber optical parametric amplifiers

**10/2016-09/2019** **PhD-PhLAM Laboratory, University of Lille, FR**

Supervisors: Prof. Arnaud Mussot and Dr Matteo Conforti
Experimental study of modulation instability in passive fiber-ring cavities.

**10/2017-06/2019** **Teaching assistant, IMT Lille Douai, Lille, FR**

Teaching to 1st and 2nd year undergraduates: 128 h
Electromagnetism, Electricity, Wave optics, Mechanics…

**01/2017-09/2019** **University of Lille OSA Student Chapter**

Treasurer
Organization of lab and company tours, networking events…

**02/2016-06/2016** **Internship, PhLAM Laboratory, University of Lille, FR**

Supervisor: Prof. Alexandre Kudlinski
Experimental study of four-wave mixing between orthogonally polarized linear waves and solitons in a birefringent fiber

## PUBLICATIONS

**Journals: 1 Nature Communications, 1 Physical Review A, and 1 Optics Letters**

- F. Bessin, A. M. Perego, K. Staliunas, S. K. Turitsyn, A. Kudlinski, M. Conforti, and A. Mussot, “Gain-through-filtering enables tuneable frequency comb generation in passive optical resonators”, Nat Commun **10**, 1 (2019).
- Bessin, F. Copie, M. Conforti, A. Kudlinski, and A. Mussot, “Modulation instability in the weak normal dispersion region of passive fiber ring cavities”, *Opt. Lett,* **42**, 3730–3733 (2017).
- C. Mas Arabí, F. Bessin, A. Kudlinski, A. Mussot, D. Skryabin, and M. Conforti, “Efficiency of four-wave mixing between orthogonally polarized linear waves and solitons in a birefringent fiber”, *Phys. Rev. A*, **94**, 063847 (2016).