

## Louis-Marie DANDO

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FRANCE  
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lmdando@laposte.net  
Born 15th June 1992

## Ph.D. Student in Computer Science 3<sup>rd</sup> year LaBRI

Research interests: automata, variants and extensions: two-way, weighted, etc.

### Cursus

- 2015-2018 **Ph.D. student in Computer Science** at the Laboratoire Bordelais de Recherche en Informatique (LaBRI), the Bordelais research laboratory in computer science.
- 2015 **Msc** in computer science at Bordeaux University.
- 2012-2015 **Engineering student** in computer science at ENSEIRB-MatMeca. Engineer diploma in 2015.  
3<sup>rd</sup> year option : European Studies for Software Verification.
- 2009-2012 **Classe Préparatoire**. A 2 years intensive Mathematics and Physics course in preparation for the selective entrance examination to French engineering schools in Lycée Saint-Stanislas, Nantes, France.
- Juin 2009 **Baccalauréat** général série scientifique (S) avec mention. Equivalent to 'A' levels in mathematics, physics, sciences, with distinction.

### Teaching

- 2015-2018 **Teaching assistant** at ENSEIRB-MatMeca :
- 1<sup>st</sup> year electronics (equivalent to 3<sup>rd</sup> year Bachelor):
    - Algorithms and data structures (13h20, 3 years).
  - 1<sup>st</sup> year computer science (equivalent to 3<sup>rd</sup> year Bachelor):
    - C programming language, with (16h,1 year),
    - Programming project in Racket (20h, 1 year),
    - Logic and proof (14h, 3 years).
  - 2<sup>nd</sup> year computer science (equivalent to 1<sup>st</sup> year Master):
    - Cryptology (18h, 1 year),
    - Advanced courses in databases (4h, 2 years),
    - Calculability and complexity (16h, 2 years).

### Experience in Academic research

- 2015-2018 Ph.D. student at LaBRI, under the direction of Sylvain Lombardy.  
*Problèmes de réalisations de séries rationnelles.*  
*Problems for realizing rational series.*  
Key-words: weighted automata, rational series, Hadamard series, rotating and two-way automata.
- Feb. 2015-  
June 2015 Msc Internship at LaBRI, under the direction of Mme. Durand et M. Sénizergues.  
*Systèmes de réécriture de haut-en-bas : une stratégie qui inverse préserve la rationalité des langages de termes.*  
*Top-down rewriting systems.*  
Key-words: tree automata, rewriting systems.

## Publications

- Conferences : DANDO, Louis-Marie and LOMBARDY, Sylvain.  
*From Hadamard Expressions to Weighted Rotating Automata and Back.*  
In: *International Conference on Implementation and Application of Automata (CIAA 2017)*.  
Springer, Cham, p. 163-174.
- In reviewing : DANDO, Louis-Marie and LOMBARDY, Sylvain.  
*Two-way automata over locally finite semirings.*  
In: *International Conference on Descriptive Complexity of Formal Systems (DCFS 2018)*.
- DANDO, Louis-Marie and LOMBARDY, Sylvain.  
*On Hadamard series and Rotating  $\mathcal{Q}$ -automata.*  
In: *International Symposium of Computer Science (DCFS 2018)*.

## Other

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|----------------|--|
| French         | Native speaker.  |
| English        | Fluent. TOEIC : 965/990                                      |
| Espagnol       | Scolar   |
| Latin, Ancient | Notions  |
| Greek          |  |
| Scoutism       | 8 years with two experiences as a chief.                     |
| Dictation      | Competitions, usually well positioned.                       |
| Biking         | 6 years in an association. 1000 km family trip up the Loire. |