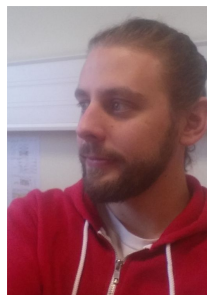# Yoann Dufresne

PhD in Computer Science
Bioinformatics

Born on 21th November 1988
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Work Experience

PhD in computer science (bioinformatics) (2013-2016), CRIStAL, univ. Lille, France, Advisors: M. Pupin, L. Noé
Algorithms for automatic annotation of Non-Ribosomal Peptides

Research internship (spring 2013), INRIA Lille, France, Advisors: M. Pupin, L. Noé
Prediction of activity for Non-Ribosomal Peptide using Bayesian models.

Research internship (summer 2012), INRIA Lille, France, Advisor: M. Pupin
Computer decomposition of Non-Ribosomal Peptide into their constituents

Engineering internship (summer 2011), INRIA Lille, France, Advisor: L. Noé
Modifying the STORM software to allow illumina entry data.

Engineering internship (spring 2011), Astronomical Laboratory of Lille, France, Advisor: F. Deleflie
Creation of a 3D software in JAVA, for the visualisation of spatial debris

Education

PhD in computer science (bioinformatics) (2013-2016), CRIStAL, univ. Lille, Advisors: M. Pupin, L. Noé, Algorithms for automatic annotation of Non-Ribosomal Peptides

Bachelor, master's degree in computer science (2009-2013), univ. Lille.
Master specialized in applied algorithms.

Teaching

Advanced algorithmic (2015-2016), Master's degree
Object Oriented Conception in JAVA (2015-2016), Bach. degree
Unix System Architecture (2013-2014), Master's degree
C programming (2014), Bach. degree

Publications and conferences

Y. Dufresne, L. Noé, V. Leclère, M. Pupin, *Smiles2Monomers: a link between chemical and biological structures for polymers*, J. of Cheminformatics (2016)

M. Pupin, Q. Esmaeel, A. Flissi, Y. Dufresne, P. Jacques, V. Leclère, *Norine: a powerful resource for novel nonribosomal peptide discovery*, Synth. and Sys. Biotech. (2015)

A. Flissi, Y. Dufresne, J. Michalik, L. Tonon, S. Janot, L. Noé, P. Jacques, V. Leclère, M. Pupin, *Norine, the knowledgebase dedicated to non-ribosomal peptides, is now open to crowdsourcing*, Nuc. Acids Res. (2015)

Y. Dufresne, L. Noé, V. Leclère, M. Pupin, *Smiles2Monomers: a link between chemical and biological structures for polymers*, conf. SeqBio (2015), Paris

Y. Dufresne, L. Noé, V. Leclère, M. Pupin, *Smiles2Monomers: Tool for monomeric structure search*, conf. JOBIM, (2015), Clermont-Ferrand (France)

Y. Dufresne, V. Leclère, P. Jacques, L. Noé, M. Pupin, *Non ribosomal peptides: a monomeric puzzle*, conf JOBIM, (2013), Toulouse (France)

Local engagements

Founder of the algorithm contest group of Univ Lille (2015-Today)
Founder and manager of the hackerspace "Espace Bidouille" on the Univ Lille university (2015-Today).
Lille 1 disciplinary council member, Student defense (2014-2016)