

Guillaume FERTIN -Curriculum Vitæ
LS2N, UMR CNRS 6004 - Nantes Université – France
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Personal Info

Born 24th July 1972, Lille (France) - French citizen
Professor - LS2N/Computer Science Department, Nantes Université - France

Formal Education

2005- : Professor, LS2N and Computer Science Department, Nantes Université
2000-2005 : Assistant Professor, LINA and Computer Science Department, Université de Nantes
1999-2000 : Assistant Lecturer, Université Bordeaux 1
1996-1999 : PhD student, LaBRI, Université Bordeaux 1

Research Interests

Bioinformatics, Computational Biology. Discrete algorithmics for biologically motivated problems. Application in proteomics, metagenomics and comparative genomics.

Publication Summary (sources : DBLP and Google Scholar)

1 book, 1 book chapter, 1 proceedings
63 refereed journal publications - 66 conference proceedings publications
h-index: 30 - Number of citations : 3080

Recent Grants

PHC Procope (Germany) 2017-2018, with U. Jena
Leverhulme Trust Project (UK) 2016-2021, with U. Durham
French grant CNRS PEPS GETAJOB 2017-2018
French grant ANR DeepProt 2019-2023 with INRAE, France (1 Computer Science group, 2 Proteomics groups)
Regional grant “DataSanté” 2017-2022 (13 groups involved)

Selected Publications

MAGNETO: an automated workflow for genome-resolved metagenomics
Benjamin Churchward, Maxime Millet, Audrey Bihouée, Guillaume Fertin and Samuel Chaffron
mSystems, 4(7), pp e00432-22, 2022.

Sorting by Multi-Cut Rearrangements

Laurent Bulteau, Guillaume Fertin, Géraldine Jean and Christian Komusiewicz
SOFSEM 2021 – Track : Foundations of Algorithmic Computational Biology. LNCS Vol. 12606, pp 593-607. Best paper.

Evaluation of open search methods based on theoretical mass spectra comparison

Albane Lysiak, Guillaume Fertin, Géraldine Jean and Dominique Tessier
BMC Bioinformatics 22(Suppl. 2), #65, 2021.

SpecOMS: a full open modification search method performing all-to-all spectra comparisons within minutes

Matthieu David, Guillaume Fertin, Hélène Rogniaux and Dominique Tessier
Journal of Proteome Research 16 (8), pp 3030-3038, 2017.

Algorithms for computing the double cut and join distance on both gene order and intergenic sizes

Guillaume Fertin, Géraldine Jean and Eric Tannier.
Algorithms for Molecular Biology 12 (1) #16, 2017.

Pancake Flipping is Hard

Laurent Bulteau, Guillaume Fertin and Irena Rusu.
Journal of Computer and System Sciences, 81(8), pp 1556-1574, 2015.