



Bioinformatics summer school

Challenges in bioinformatics

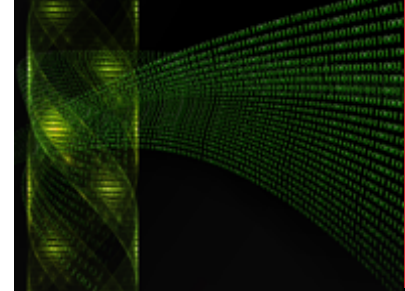
sessions



Warm up Session

- 1.Statistics and classification for genomic studies**
- 2.Clinicobiological Databases**
- 3.Visit of the Genomics and bioinformatics core facility**
- 4.Introduction to “Next generation sequencing (NGS)”**
- 5.Bioinformatics and Business companies**
- 6.Microbial metagenomics**
- 7.Association mapping and system genetics – from GWAs to function**
- 8.Optimization methods for bioinformatics**
- 9.Case study and guided exercices on “Computer modelin of living systems”**

Warmup session



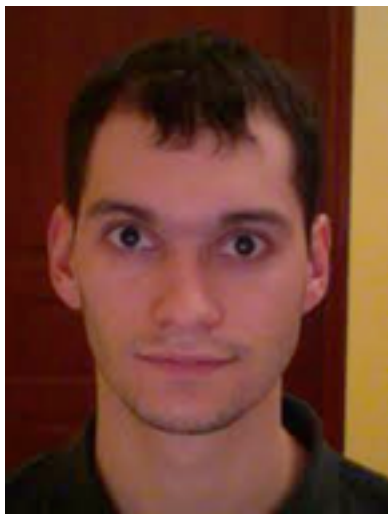
Frédéric Prioa, Assistant Professor, LAREMA

Marc Legeay, PhD student, LERIA

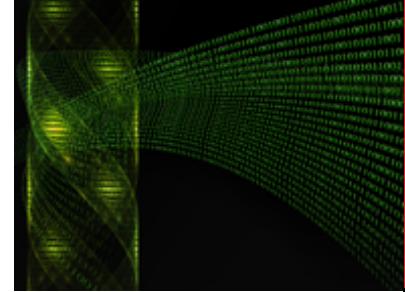
Jérémie Bourdon, Assistant Professor, LINA

Basics in R

Basics in algorithmics (with Python)



1st of July

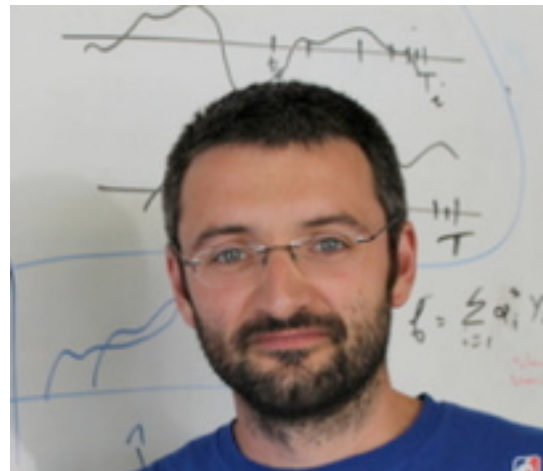


Statistics and classification for genomic studies

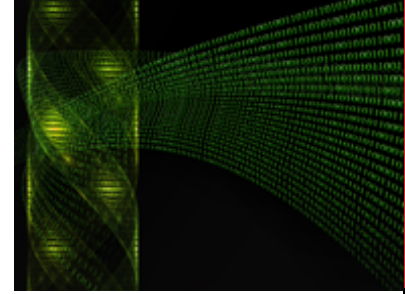
Invited speaker: Stéphane Robin, INRA, Paris (FR)

Sébastien Loustau, LAREMA, Angers University (FR)

Frédéric Proia, LAREMA, Angers University (FR)



2nd of July



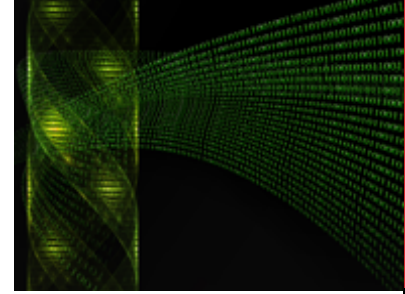
Clinicobiological Databases

Marc Ferre, BNMI, Angers University (FR)

Dan Milea, CHU, Angers University (FR)



3rd of July



Daytrip in Nantes

Visit of the Genomics and bioinformatics platform in Nantes

Course and workshop on NGS analysis

Excursion at *Les machines de l'île*

Solena Le Scouarnec, Institut du Thorax, Nantes (FR)

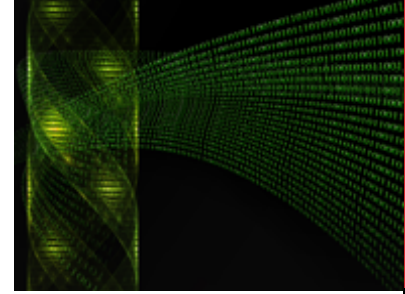
Pierre Lindenbaum, Institut du Thorax, Nantes (FR)

Richard Redon, Institut du Thorax, Nantes (FR)

Audrey Bihouée, BiRD, Nantes (FR)



6th of July



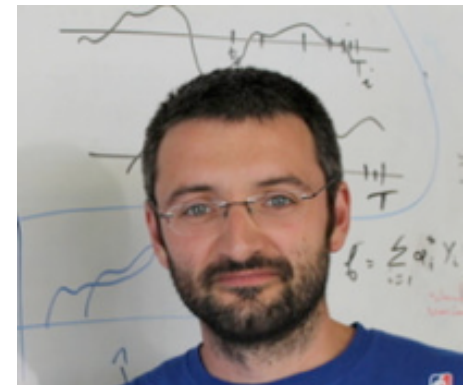
Bioinformatics and Business companies

Hubert Beaumont, Median Technologies, Valbonne (FR)

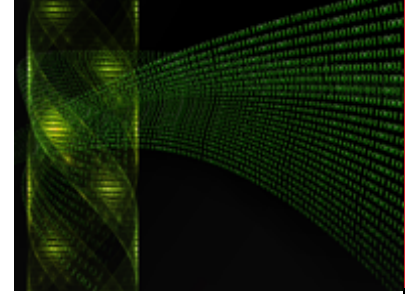
Mohammed Bennanni, President Qualees, Paris (FR)

Vincent Procaccio, Angers University (FR)

Sébastien Loustau, Angers University (FR)



7th of July



Microbial Metagenomics

Damien Eveillard, LINA, Nantes (FR)

Lois Maignien, Brest University, Brest (FR)

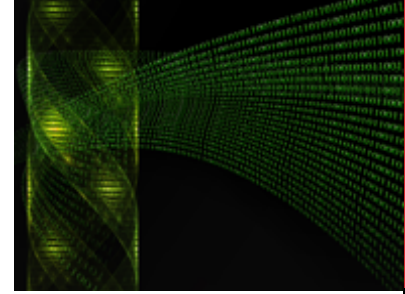
Workshop basics on metabolic network analysis

Marko Budinich, LINA, Nantes (FR)

Jérémie Bourdon, LINA, Nantes (FR)



8th of July



Association mapping and system genetics - from GWAs to function

Christian Dina, Institut du Thorax, Nantes (FR)

Juliana Ionita Laza, Columbia University (USA)



9th of July

Optimization methods for bioinformatics

Laëtitia Jourdan, INRIA Lille (FR)

Béatrice Duval, LERIA, Angers (FR)

Frédéric Lardeux, LERIA, Angers (FR)

Frédéric Saubion, LERIA, Angers (FR)



10th of July



Computer modeling of living system

Alexander Bockmayr, Freie University, Berlin (DE)

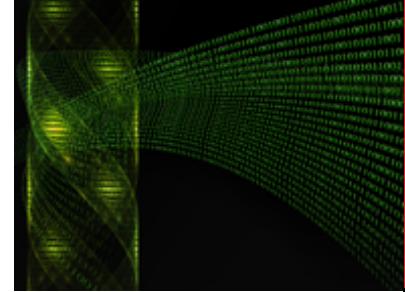
Jérémie Bourdon, LINA, Nantes (FR)

Damien Eveillard, LINA, Nantes (FR)

Marko Budinich, LINA, Nantes (FR)



Today



2pm-5pm Free time

5pm Plenary Conference: 'Polio: nearly extinct but not to be ignored'

Gareth Williams, Bristol University, (UK)

Faculty of languages - Amphi E (Campus Belle-Beille)

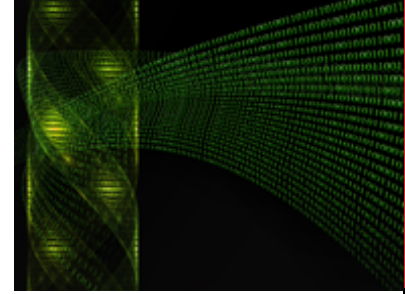
6:00-6:45pm Opening of the Summer Schools

Isabelle Richard, Dean of the Faculty of Medicine, Angers (FR)

John Webb, Vice-president for International Relations, Angers (FR)



Large variety of labs...



Mathematics

LAREMA

Computer science

LERIA

LINA

Health and biology

BNMI

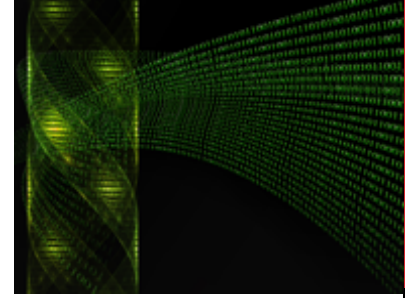
Institut du Thorax

Agronomy

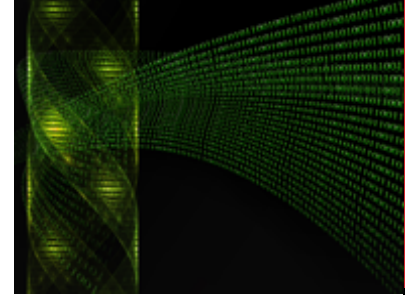
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... Main particularity of bioinformaticians

About us ...



Frédéric Lardeux



Assistant Professor

Université d'Angers

LERIA, « Metaheuristics, Optimisation and Applications » team

Algorithms dedicated to the characterization of biological data

Satisfiability problems and applications to solve biological problems



Jérémie Bourdon

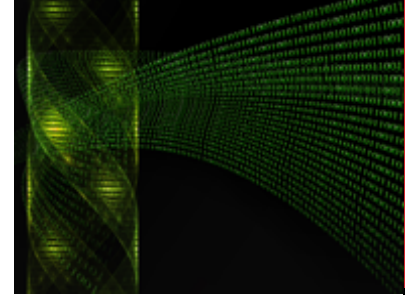
Assistant Professor

Université de Nantes

LINA, « Combinatorics and Bioinformatics » team

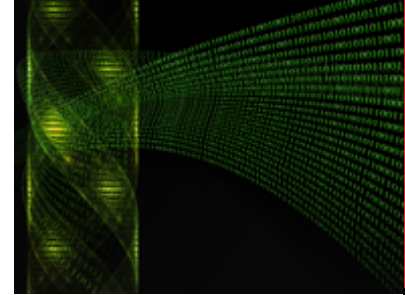
Comparative genomics

Biological networks analysis

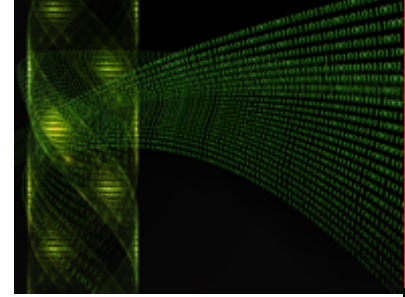


Stéphanie Noguet

Engineer for Bioinformatics education
GRIOTE project



About you ...







Europe

- International Boundary
- Road
- River
- National Capital
- City or Town

0 250 500 KM
0 250 500 Miles

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Questions ?

