



SUMMER SCHOOLS

UNIVERSITY OF
ANGERS - FRANCE

Welcome booklet 2019

BIOINFORMATICS

24TH JUNE | 5TH JULY

www.summerschools.univ-angers.fr





WELCOME TO ANGERS
for our
Bioinformatics Summer School
24th June - 5th July

For this fifth edition, we will be offering participants summer courses on bioinformatics with participation of international researchers from our partner universities. 17 students from all over the world will attend this edition!

The program developed in this summer school aims at bringing students the ability to conduct ambitious biological studies from big data analysis to extract relevant biomarkers to large scale models engineering in order to enhance biological production. Topics to be covered include different fields of bioinformatics: data processing of genomic data, optimization methods in systems biology, statistics and classification for biomarker extraction, meta-genomics, deep learning and image processing techniques and a few more. Workshops and visits of institutes are of course included.

In addition to the scientific program, cultural and social activities will be organized so that all participants can get to know the city, the country and each other!

We hope you will enjoy the summer course. Welcome to the bioinformatics world!

Pr. Jérémie Bourdon & Pr. Frédéric Saubion

Coordinators of the Bioinformatics Summer School



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MONDAY 24TH JUNE (MORNING)



09:00 – 09:30 AM **Participants arrival & Welcome coffee**

Department of Medicine – Room C301

09:30 – 10:30 AM **Presentation of the participants and their research interests / experiences + Brainstorming**

BOURDON Jeremie, University of Nantes (FR)

SAUBION Frédéric, University of Angers (FR)

Department of Medicine – Bat. F room 206 (F206)

10:45 – 11:00 AM **Opening Ceremony introduced by the President of the University of Angers**

11:00 – 12:00 AM **Plenary Conference: “Interdisciplinarity in a (still short) career: living and contributing to the creation of a new research field in biomedical image informatics.”**
Conference

PAUL-GILLOTEAUX Perrine, Institut du Thorax, CHU de Nantes (FR)

Department of Medicine – Amphi Ambroise Paré

Program

	Monday 24th June	Tuesday 25th June	Wednesday 26th June	Thursday 27th June	Friday 28th June	Saturday 29th June	Sunday - 30th June
9am	Welcoming Opening ceremony Plenary conference <i>Department of Medicine</i> <u>*Details above the schedule</u>	Warmup session (Python) Jérémie Bourdon & Dimitri Meistermann & Victor Gaborit <i>Faculty of Sciences Bat H, ground floor</i>	Introduction to protein structure prediction Stéphane Téletchéa <i>Bat H, ground floor</i>	Association mapping and system genetics - from GWAs to function - Part1 Christian Dina <i>Bat H, ground floor</i>	Association mapping and system genetics - from GWAs to function - Part2 Christian Dina & Iuliana Ionita <i>Bat H, ground floor</i>	Atlantic seacoast day La Baule Departure at 9.06am <i>Angers Train Station</i>	FREE TIME
10am							
11am							
12am	French Apero Lunch <i>Department of Medicine In the campus</i>	Lunch <i>University Restaurant Belle-Beille</i>	Lunch <i>University Restaurant Belle-Beille</i>	Lunch <i>University Restaurant Belle-Beille</i>			
1pm							
2pm	Initiation Unix	Warmup session R Gilles Hunault <i>Bat H, ground floor</i>	Introduction to protein structure prediction Stéphane Téletchéa <i>Bat H, ground floor</i>	Ontologies and biology databases Benjamin Barré, Julie Bourbeillon & Claudine Landès <i>Bat H, ground floor</i>	Introduction to metabolic networks Part 1 Jérémie Bourdon & Victor Gaborit <i>Bat H, ground floor</i>		
3pm							
4pm							
5pm							
6pm							
7pm	Guided Tour in Angers <i>Tourism Office in Angers</i>	Kayak Activity CKCA Lac de Maine	Bowling Bowling Le Colisée				
8pm	Wine Tasting <i>Musée Jean Lurçat</i>						

	Monday 1st July	Tuesday 2nd July	Wednesday 3rd July	Thursday 4th July	Friday 5th July	Saturday 6th July
9am	Introduction to machine learning with Python David Rousseau Bat H, ground floor	Introduction to metabolic networks Part 2 Jérémie Bourdon Bat H, ground floor	Trip to Nantes departure from the residence at 7:15am	Application Session : Project Development Frédéric Saubion & Jérémie Bourdon Bat H, ground floor	Analysis of proteomics data : a case study Dominique Tessier Bat H, ground floor	DEPARTURE 😊 <i>Please leave your room before noon</i>
10am			Conference JOBIM Cité des congrès			
11am						
12am						
1pm	Lunch University Restaurant Belle-Beille	Lunch University Restaurant Belle-Beille	Lunch Cité des Congrès	Lunch University Restaurant Belle-Beille	Lunch University Restaurant Belle-Beille	
2pm	Introduction to machine learning with Python David Rousseau Bat H, ground floor	Bioinformatics and business companies Vincent Procaccio & David Goudenège Bat H, ground floor	Conference JOBIM Cité des congrès	Application Session : Project Development Frédéric Saubion & Jérémie Bourdon Bat H, ground floor	Closing session Department of Medicine Room F206	
3pm						
4pm					Closing ceremony Department of Medicine Amphi Ambroise Paré	
5pm			FREE TIME IN NANTES Departure at 11:00pm from Quai Moncoussu			
6pm						
7pm	Social activity Parc Balzac					
8pm						

Social activities included in the registration fees

GUIDED TOUR OF ANGERS AND WINE TASTING – Monday 24th June

6:30-7:30pm

Meeting place: car park of the castle of Angers – in front of the Office de tourisme

7:30-8:30pm

Wine tasting - Museum Jean-Lurçat

KAYAK SESSION – Tuesday 25th June

6:30-8:30pm

You must know how to swim to take part to this activity. Thank you to arrive before 6:15pm. The latecomer will not take part to this activity.

BOWLING – Wednesday 26th June

6:30-9:00pm

Teams will be forms directly at the Bowling. Drink or Food are not included.
Thank you to follow instructions given.

SEACOAST DAY TRIP – Saturday 29th June

9:06am-6:49pm

The scientific program will end on Friday but a seacoast day is organized on Saturday to enjoy a day all together. You will get a group ticket (for 5 persons). The departure is from Angers train station at 9:06am to La Baule (11:03am). It's a free day but please note that the return is from La Baule at 6:49pm. If you don't want to enjoy this trip or stay longer there (at your own expenses), please inform the summer schools team.
Make sure you bring your swimsuit and your solar cream!

On Sunday, we advise you to visit Saumur, which is a lovely town, famous for its equestrian schools. You can use the same train tickets as Saturday.

SOCIAL ACTIVITY – Monday 1st July

6:30-8:30pm

Free games in Parc Balzac

Practical Information about the scientific trip



TRIP TO NANTES – Wednesday 3rd July 2019

- The bus will pick you up at 7:15am at Lakanal Residence and will drive you to the “Cité des Congrès” in the City Center to attend the Conferences JOBIM <https://jobim2019.sciencesconf.org/?forward-action=index&forward-controller=index&lang=en>
- You’ll have a lunch directly at the Cité des Congrès
- Your evening will be free.
- The bus will pick you up at Quai Moncoussu at 11pm to bring you back to Angers around midnight.



List of speakers

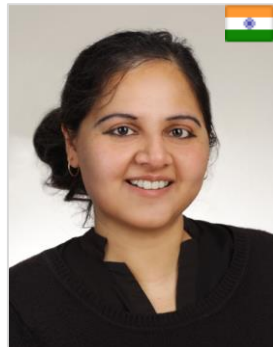
- BARRE Benjamin**, University of Angers (FR)
- BOURBEILLON Julie**, INRA Angers (FR)
- BOURDON Jérémie**, University of Nantes (FR)
- DINA Christian**, University of Nantes (FR)
- GABORIT Victor**, CRCINA Nantes (FR)
- GOUDENEGE David**, University of Angers (FR)
- HUNAULT Gilles**, University of Angers (FR)
- IONITA-LAZA Iuliana**, University of Columbia, New-York (USA)
- LANDES Claudine**, University of Angers (FR)
- LOLLIER Virginie**, INRA, Nantes (FR)
- MEISTERMANN Dimitri**, University of Nantes (FR)
- PROCACCIO Vincent**, University of Angers (FR)
- ROUSSEAU David**, University of Angers (FR)
- SAUBION Frédéric**, University of Angers (FR)
- TELETCHÉA Stéphane**, University of Nantes (FR)
- TESSIER Dominique**, INRA, Nantes (FR)

List of participants

These are the participants of the Bioinformatics Summer School. Find their area and place of study plus a flag indicating their nationality:



Lamiae AMALLAH
Rabat – MOROCCO
PhD in Biology



Tanima BOSE
Munich –GERMANY
PhD in Biology



Mahmoud ELBATTAH
Amiens – France
PhD in Informatics



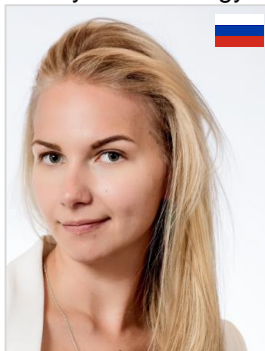
Martha GALLAGHER
Glasgow – UK
2nd year in Biology



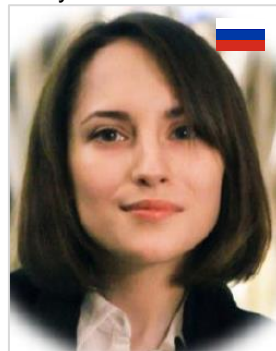
Sofiya GARKOT
Lviv – UKRAINE
2nd year in Informatics



Yazhou HE
Edinburgh – UK
PhD in Medicine



Anastasiia KOROTINA
Vaduz –
LIECHTENSTEIN
Master in Information
System



Kseniia KOSLOVA
Moscow – RUSSIA
5th year in Psychology



Euan MACKAY
Glasgow – UK
3rd year in Biology



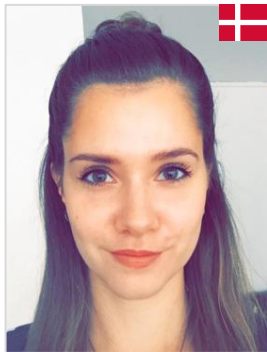
Anna SAHATOVYCH
Kyiv – UKRAINE
Graduated in Data
Science



**Clara Inés
SALDAMANDO**
Medellín – COLOMBIA
PhD in Biology



Romy SPANGENBERG
Leipzig – GERMANY
6th year in Informatics



**Marianne
SVENNINGSEN**
Copenhagen –
DENMARK
5th in Veterinary Medicine



Maartje VAN DE VORST
Nijmegen –
NETHERLANDS
BASc in Bioinformatic



Pablo VARGAS
Sint-Katelijne-Waver –
BELGIUM
PhD in Biology



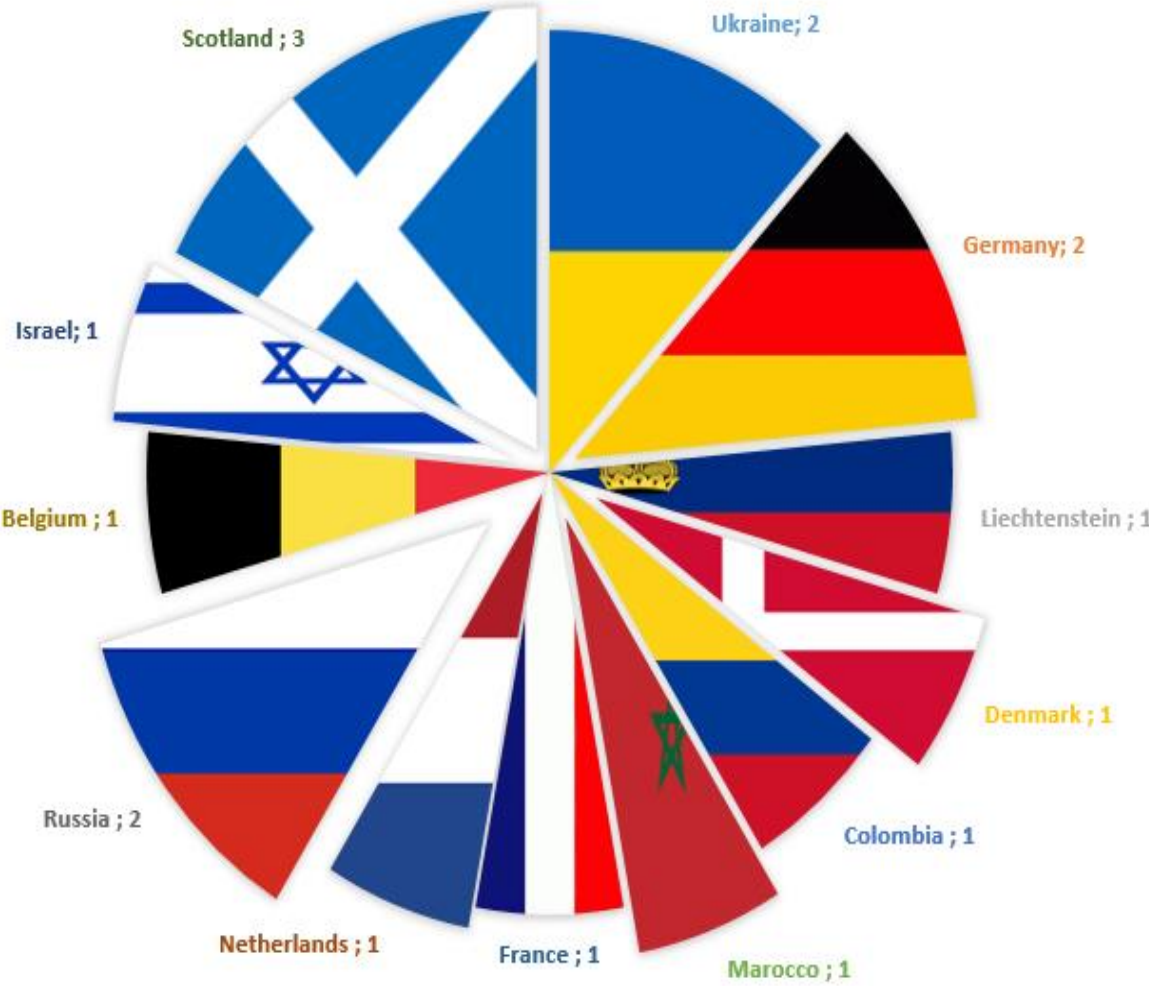
Iryna YAKOVENKO
Ariel – ISRAEL
PhD in Biology



Alexey ZABELKIN
Saint-Petersburg -
RUSSIA
5th year in Informatics

Profil of participants

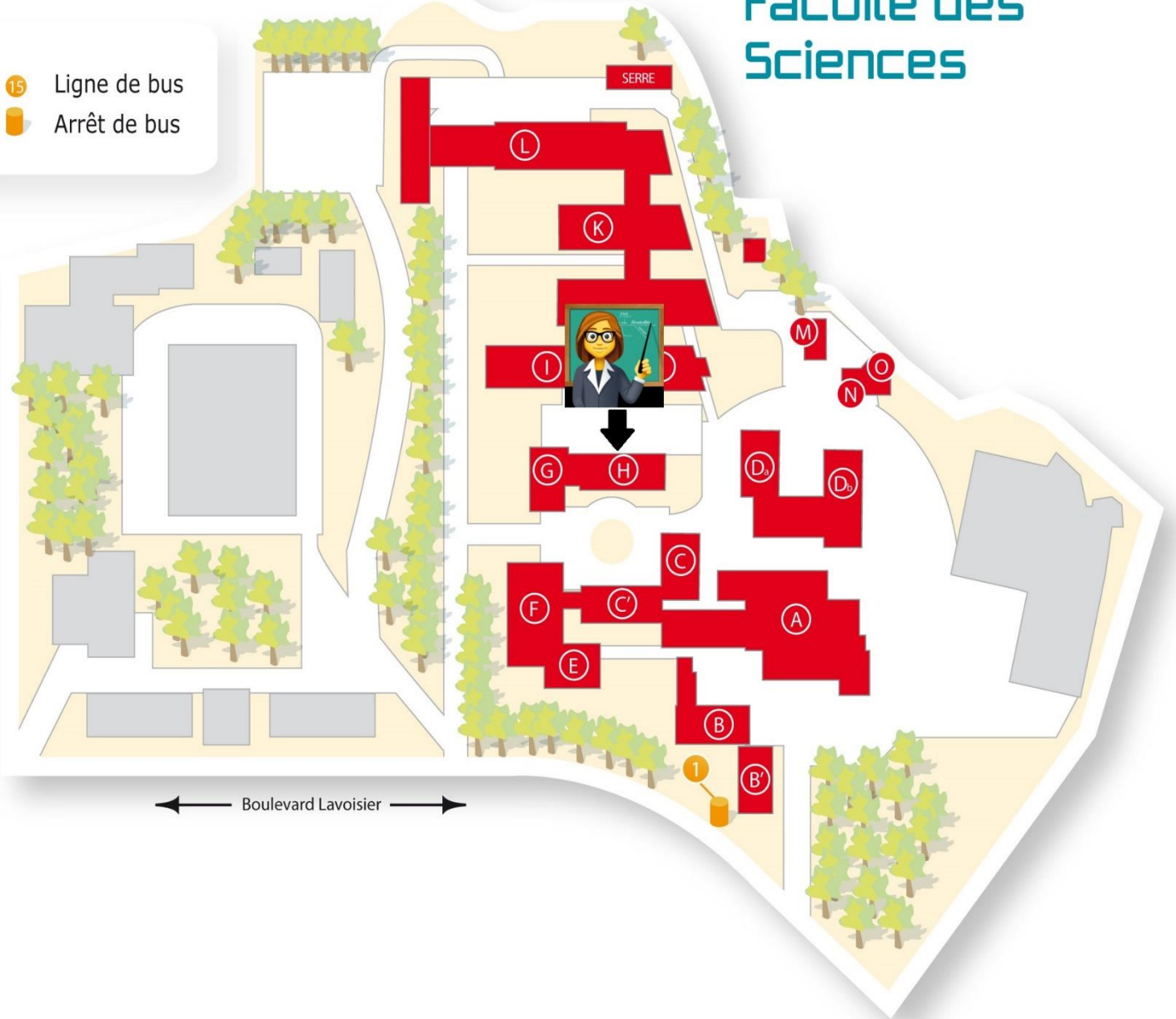
Here is the distribution of the participants of Bioinformatics Summer School depending on the country where they study:



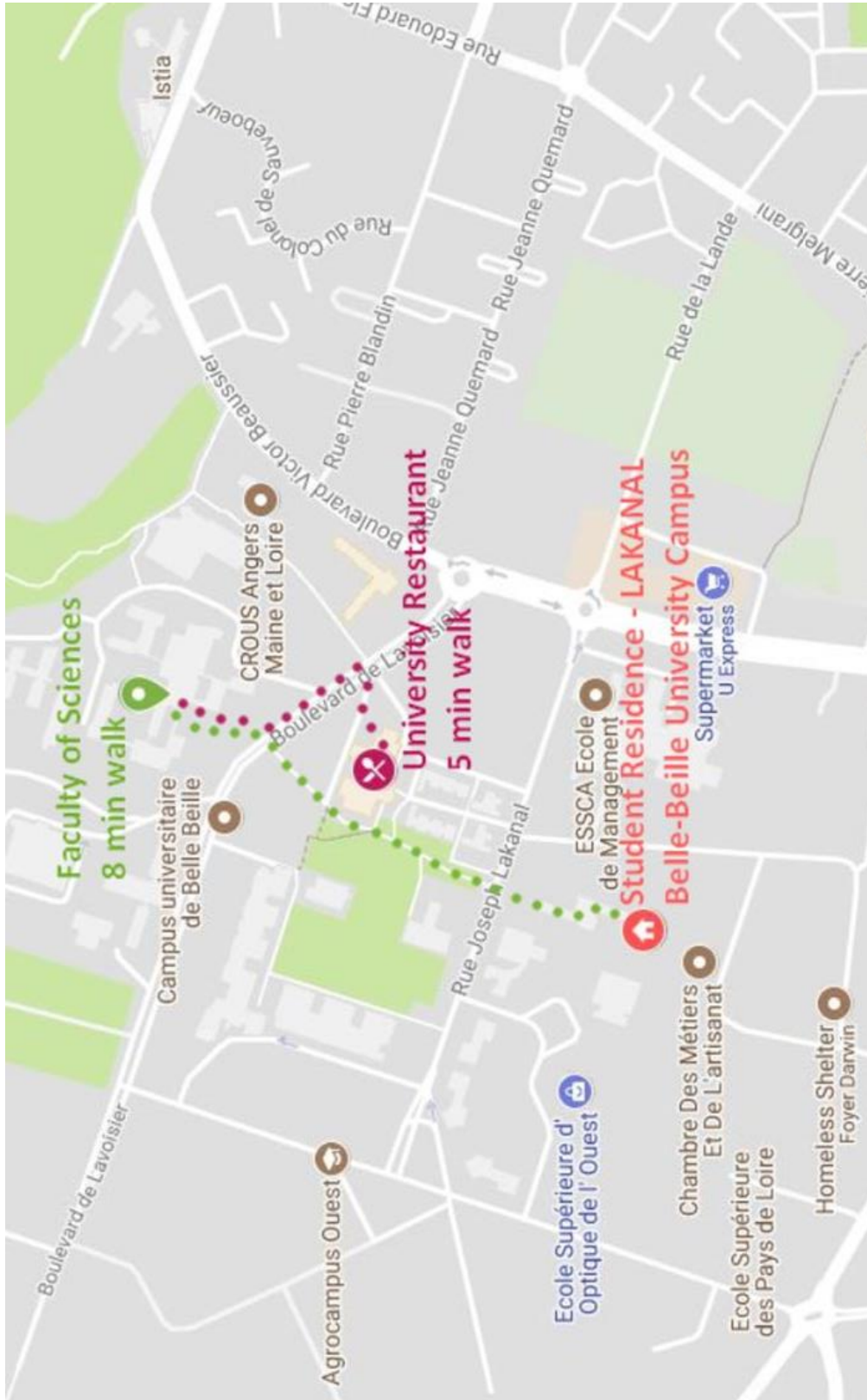
Map of the Faculty of Sciences

Faculté des Sciences

- 15 Ligne de bus
- Arrêt de bus



Map of your daily journey



Help during your stay

All the members of the Summer Schools 2019 will take care of you during your whole stay and organise some great activities. We are here to make this experience **UNFORGETTABLE**

Manon Le Mercier
Administrative Staff
summerschools@univ-angers.fr
+33 (0) 6 01 87 88 83



Aurélie Giacomini
Project Coordinator
summerschools@univ-angers.fr
+33 (0) 6 15 31 82 58



During your stay, you will be escorted by two buddy students.

Marie MOMBAS
Buddy Student
marie.mombas@etud.univ-angers.fr
+33 (0)6 42 45 13 93



Rexhina RRONJA
Buddy Student
rexhinarronja@yahoo.com
+33 (0)7 69 62 60 66



Practical information



Useful telephone numbers

EMERGENCY NUMBERS



University Residence

Résidence Universitaire Lakanal

25, rue Jean-Baptiste Lamarck 49 000 Angers



Exchange Office

In France, euro is the only currency accepted. The foreign exchange counter in Angers is:

“Change et Or Angers” 28, rue de la Roë 49 100 Angers



Supermarket

The closest from your residence is:

“U Express” 41, rue de la Lande 49 000 Angers



Internet free access

In the residence:

On arrival day, you will be given a Wi-Fi code. You will have an unlimited access.

On the campus:

You will need codes to connect to the Angers University Network (<http://www.univ-angers.fr/ent>)

You will get a personal login and password. **Ex:** login: ua6141 password: Sy56lu79

Transport in Angers



Bus



When the bus is coming, do a sign to inform the driver that you want to get on the bus



Get on the bus through the front door and get off through the middle or rear door of the vehicle



Validate your title each time you enter into a vehicle



Tram



The tram stops at every station



When you get on the tram, validate your ticket.



Bike

The bike lent to you is personal. Keep in mind you must take care of it and attach it whenever you leave it. If you damage it, you will have to pay for the repair.

On the tram, a few bicycles are allowed (out of rush hour).

You can also use some other types of transport:



Allo Anjou Taxi: + 33 (0)2 41 87 65 00



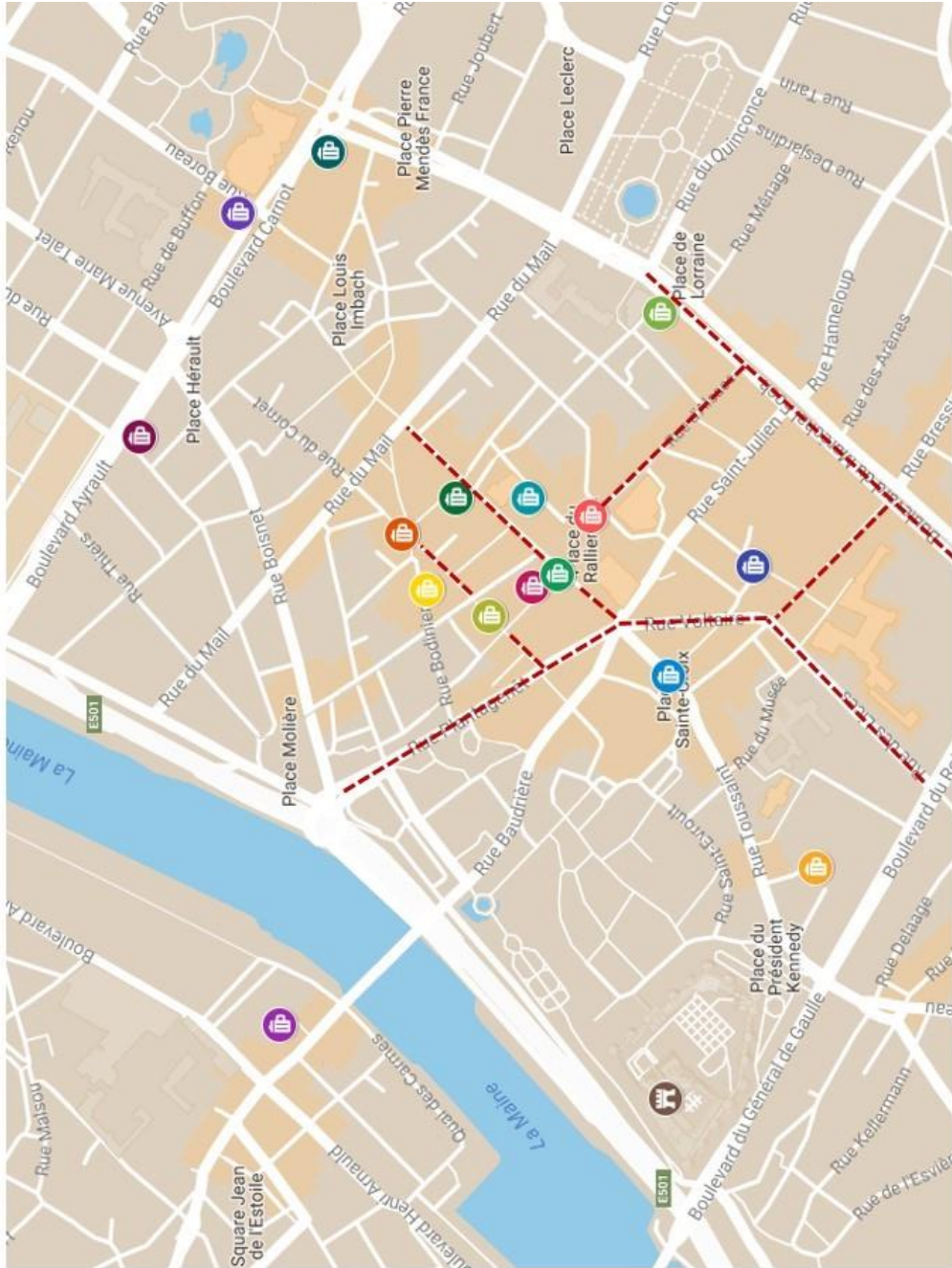
SNCF: [OUI.SNCF](https://www.oui.sncf)



Care Sharing: [BLABLACAR.FR](https://www.blablacar.fr)

Daylife & nightlife

🍷 PUBS / 🛍️ SHOPPING



Highlight



Château d'Angers

Pubs and Bars



Delirium Café



L'Okapi



La Brasserie Théâtre



La Civette



La Villa Toussaint



Le Bar du Centre



Le Baroque



Le Café de la Mairie



Le Cercle Rouge



Le Dublin's



Le James Joyce



La Chappelle



Le Kent



Le Welcome



Les BerThom



T'es Rock Coco

Shopping streets

Rue d'Alsace

Rue Lenepveu

Rue Plantagenêt

Rue des Lices/ Rue Votaire

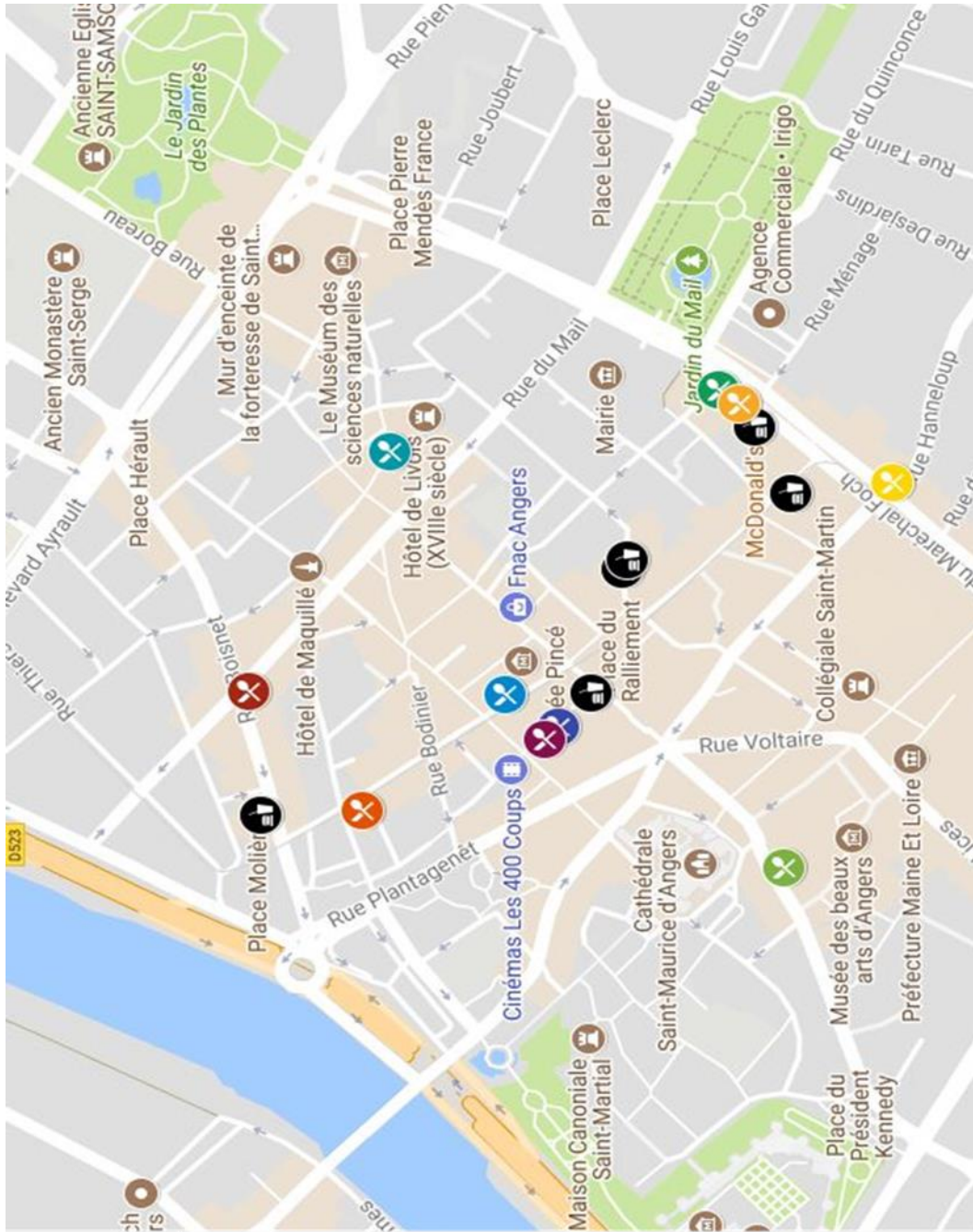
Rue Saint-Aubain

Rue Saint-Laud

Boulevard Foch



RESTAURANTS



- Fast-Food**
 - Mc Donald's
 - Subway
 - O'licios
 - Ryans kebab
 - Ernest Inn
 - Yilos Afrodite Kebab
- World Cuisine**
 - Pasta Al Dente (Italian)
 - Tapas 100 Bailes (Spanish)
 - Le Punjab (Indian)
 - Black Peat (Irish)
 - Shantou (Chinese)
- French Cuisine**
 - Bistrot des Ducs
 - Un Bim Folk
 - Au Goût du Jour
 - Tonton Foch
 - Crêperie des Angles

CULTURAL LIFE IN ANGERS



Main museums



Château d'Angers

2 Promenade du Bout du Monde,
49100 Angers

Musée Jean Lurçat

4 Boulevard Aragon,
49100 Angers



Musée des Beaux-Arts

14 Rue du Musée,
49100 Angers

Galerie David d'Angers

33 bis Rue Toussaint,
49100 Angers



Cathédrale Saint-Maurice

Place Monseigneur Chapoulie
49100 Angers



Theatres



Théâtre Le Quai

(Open-Arts)
Cale de la Savatte,
49100 Angers



Le Grand Théâtre

Place du Ralliement,
49100 Angers



Concert venues

Amphitea *(Major concerts)*
Route de Paris,
49480 Angers



Le Chabada *(concert hall)*
56 Boulevard du
Doyenné,
49100 Angers



Movie



Multiplex Pathé

(blockbusters)
1 Av des Droits de
l'Homme,
49100 Angers



Les 400 Coups

(movies in VO)
12 Rue Claveau,
49100 Angers

PARKS AND GARDENS

Le Jardin des Plantes (Bus 10 – BOREAU)



These historic gardens were the city's first botanical gardens. Today the park's 4 hectares are laid out in an English-style garden dating from 1904-1905. Its footpath, waterfalls and statues give it a serene and romantic atmosphere, a perfect antidote to the bustle of the city. Things to see: a remarkable collection of ancient trees, the aviary and the small animal enclosure.

Le Jardin du Mail (Bus 1, 4, 12 – MAIL)



These gardens came into being around the 17th century, born of the « Jeu du Mail », a now obsolete French lawn game. The fountain, by Barbezat, and the large pond (1855) make up the central axis where the geometrically-arranged paths converge. The paths flanked by greenery, the flower beds and the exceptional floral displays in summer are worth a visit

Le Parc de l'Arboretum (Bus 11 – ARBORETUM)



Covering an area of nearly 7 hectares, the Parc de L'Arboretum consists of four public gardens dedicated to horticulture and the spontaneous flora indigenous to the Angers area. Combining the art of gardening with fine arts, the various landscapes.

Le Parc de Balzac (Bus 4 – BON PASTEUR)



A perfect place to stroll along the banks of the Maine near the city center, the designers of this park were inspired by the Poitou marsh to compose a partial network of canals that have created a nature reserve of great ecological diversity.

Terra Botanica (Tram A – TERRA BOTANICA)



Terra Botanica is the first plant-themed amusement park in France. 275 000 plants from six continents provide a unique journey that stretches around the world. From Madagascar to Brazil, Mexico to Japan, the variety, colour and structure of these plants is amazing! You will discover phosphorescent and carnivorous plants alongside exotic blooms and vegetables; there is even a topical jungle.

Lac de Maine (Bus 6 – LAC DE MAINE)



Do you want to relax, to roam, to sail, to swim, to get a good look at fauna and flora, to exercise, to rest, to meet people? Then come and enjoy the theme park at Lac de Maine. It spreads on 220 acres (110 for the lake itself) and is an extraordinary site. It has every chance to seduce you. Free Entry!

Usefull French words

Good morning/ Hello	<i>Bonjour</i>
Good bye	<i>Au revoir</i>
Have a nice day!	<i>Bonne journée !</i>
Enjoy your meal!	<i>Bon appétit !</i>
I don't speak French	<i>Je ne parle pas français</i>
Could you speak slower, please?	<i>Pourriez-vous parler plus lentement s'il vous plaît ?</i>
May I please speak to Mr.../Mrs...?	<i>Pourrais-je parler à M. /Mme...?</i>
How are you?	<i>Comment allez-vous ? / Ca va ?</i>
I am very well, thank you.	<i>Je vais bien, merci. / Oui, ça va, merci.</i>
Please	<i>S'il vous plaît</i>
Thank you (very much)	<i>Merci (beaucoup).</i>
I am sorry.	<i>Je suis désolé(e)</i>
You're welcome.	<i>De rien.</i>
Can I help you?	<i>Puis-je vous aider?</i>
Would you like to drink something?	<i>Souhaitez-vous boire quelque chose?</i>
How?	<i>Comment ?</i>
Who?	<i>Qui ?</i>
Why?	<i>Pourquoi ?</i>
What?	<i>Quoi ?</i>
Where?	<i>Où ?</i>
When?	<i>Quand ?</i>
How much /many?	<i>Combien ?</i>
How much is it?	<i>Combien ça coûte ?</i>
What time is it?	<i>Quelle heure est-il ?</i>

