

Welcome to
LABORATOIRE J.-L.
LAGRANGE
UMR 7293





<https://lagrange.oca.eu/>

- Welcome to the Lagrange laboratory! Our laboratory pursues a multidisciplinary approach, regrouping instrumentalists, modelers, observers and theorists. Innovating projects often arise from sharing ideas and diverse expertise.
- I would like to encourage you to reach beyond the specific project on which you devote your time to meet and talk to your colleagues: this is how our laboratory's project will succeed!
 - *Philippe Stee*
-

Index

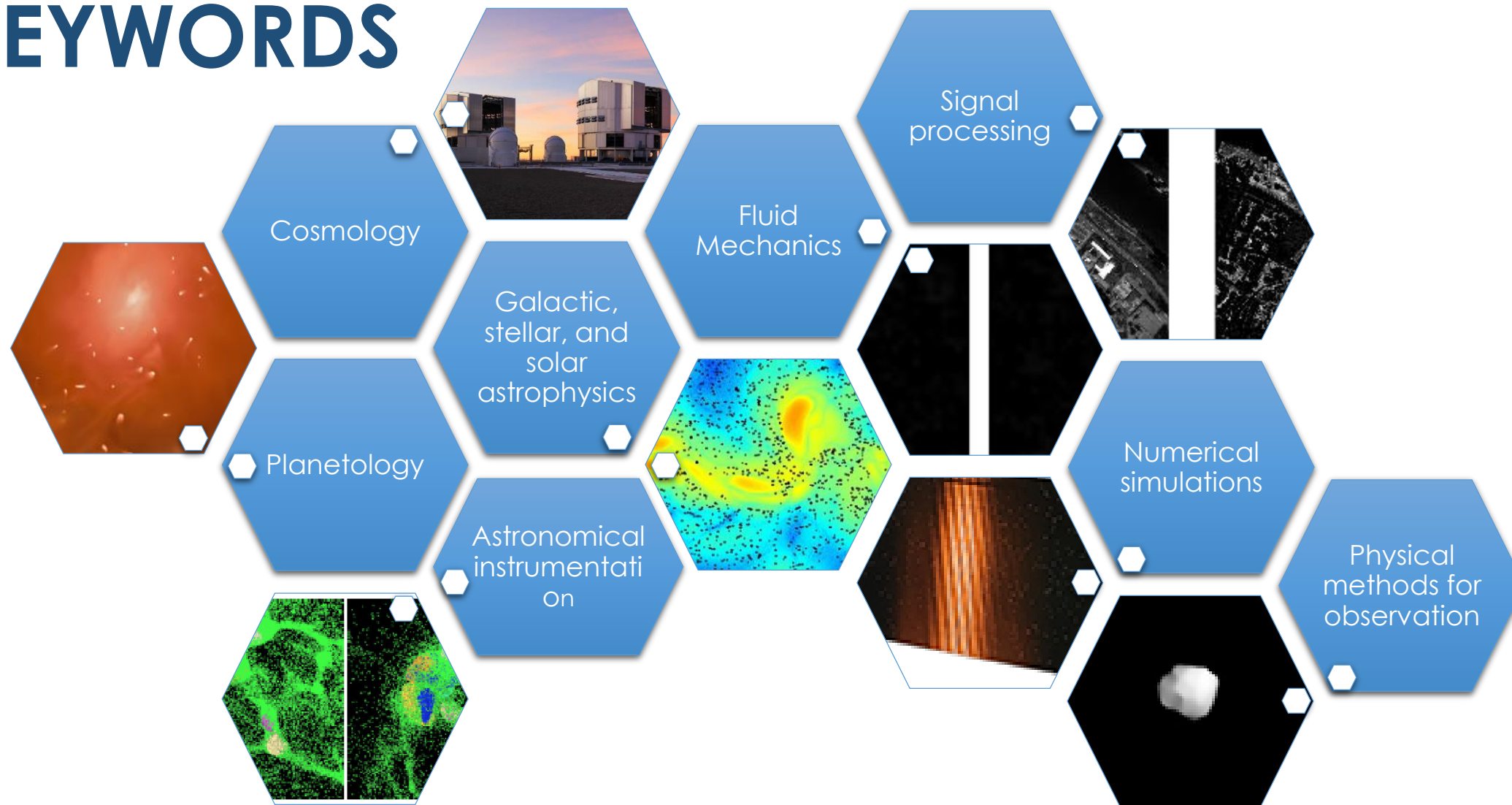
- Introduction
- Keywords
- Organization
- Lab Teams
- Main projects
- What should i do at the arrival?
- Main rules
- Practical information (Nice, VISA, Sécurité sociale, doctorants, AGATE etc...)

Summary

- DS3
- Earth, Universe, and Space Sciences
- Director: **Philippe Stee**
- Locations:
 - Côte d'Azur Observatory, Nice
 - UFR Sciences, Valrose, Nice
 - Calern Observatory, Calern
- Key numbers
 - Established on 1 Jan. 2012
 - Staff: ~160



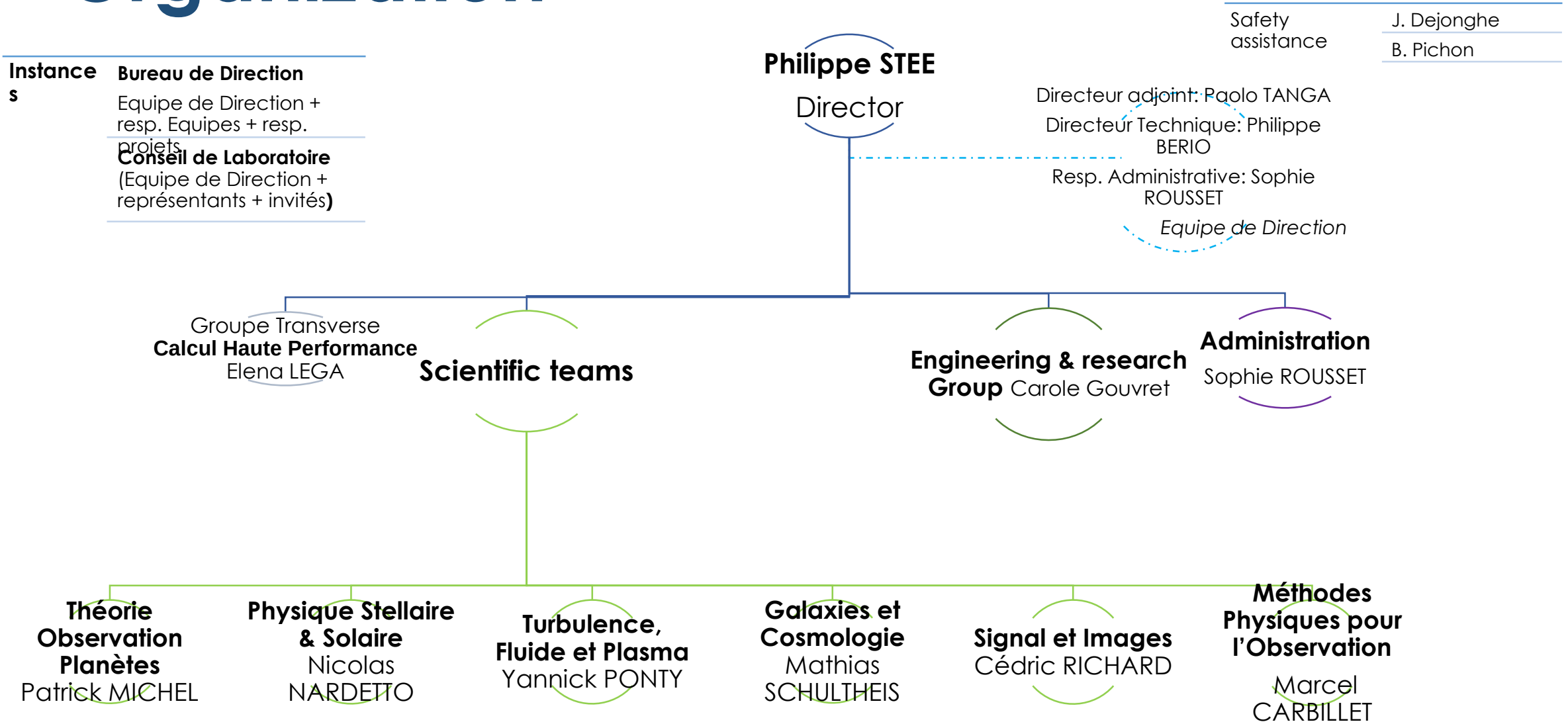
KEYWORDS



Financial authorities

- The labs depends on 3 authorities: CNRS, OCA, UNS.
- We have agents from these 3 employers.
- Our finances are managed by either the OCA or the CNRS. The rules are different between the two guardianships.
- Ex: you can buy your plane ticket at OCA, but only the lab wan buy it at CNRS.
- There is a call specific to the Laboratory called the **BQR**.
- It is possible to have a credit card (corporate) that take money form you account only 60 days after expense is done.

Organization



Research teams

Planétologie (TOP)

1. Discovery and characterization of exoplanets
2. Training, evolution and diversity of planetary systems
3. Physical and dynamic properties of the planets and small bodies of the Solar System
4. Dynamic systems and application to the dynamics of planetary systems
5. Space Projects
6. Ground Observations

Physique stellaire et solaire

1. The Sun: Magnetism, Dynamics and Internal Structure
2. Stellar atmospheres: Pulse, Rotation, Convection and Magnetism.
3. Physics of high-resolution, spectral and very high-resolution stellar environments.
4. Digital tools for astrophysical modeling of stellar environments (out-OF-ETL, Monte Carlo type in dust, analytics) and image reconstruction
5. Realistic modeling of stellar surfaces and interiors: Interferometry, Gaia, Corot

Research teams

Galaxie/Galaxies/Amas/Cosmologie/Gravitation

1. Galactic Archaeology
2. Galaxy formation and evolution
3. Galaxy clusters: action and feedback between galaxies/gas/non-thermal medium
4. Characterize and understand the acceleration of the expansion of the Universe
5. Data analysis

Turbulence Fluide et Plasma

1. Structures and Turbulence in Magnetohydrodynamics
2. Turbulent transport and transfer
3. Statistical physics out of balance
4. High-performance calculation and algorithms
5. Teaching projects

Research teams

Traitement du Signal et des Images (SI)

1. Processing the signal and images
 2. Optical Concepts For Astronomy
- Atmospheric optics
Digital modeling in adaptive optics

Méthodes Physiques pour l'Observation

1. Spectro-Interferometry
2. Conceptual developments of interferometric systems
3. Interferometer subsystems
4. Coronagraphy and Differential Chromatic Astrometry
5. Atmospheric optics
6. Spectroscopy

Groupe transverse: Calcul Numérique Haute Performance

Projet FORGE : Partage de codes et de technologies

Optimisation de codes parallèles

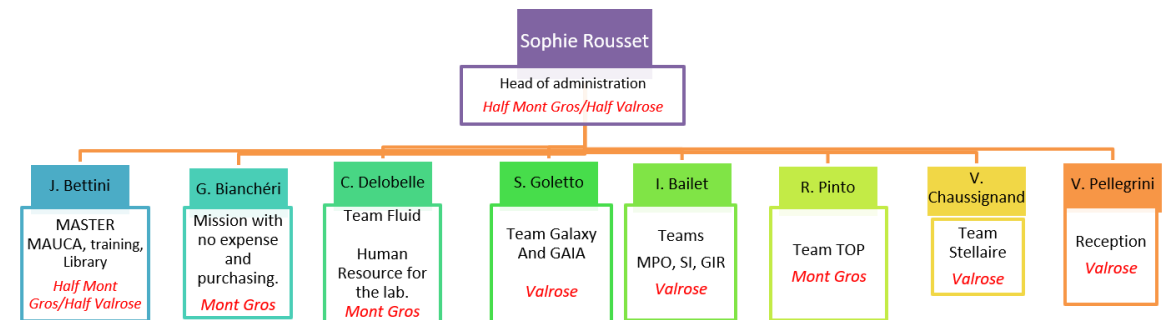
Communication entre codes multi-physiques ou multi échelles

Projet d'une bibliothèque spectrale : Projet SPECTLIB

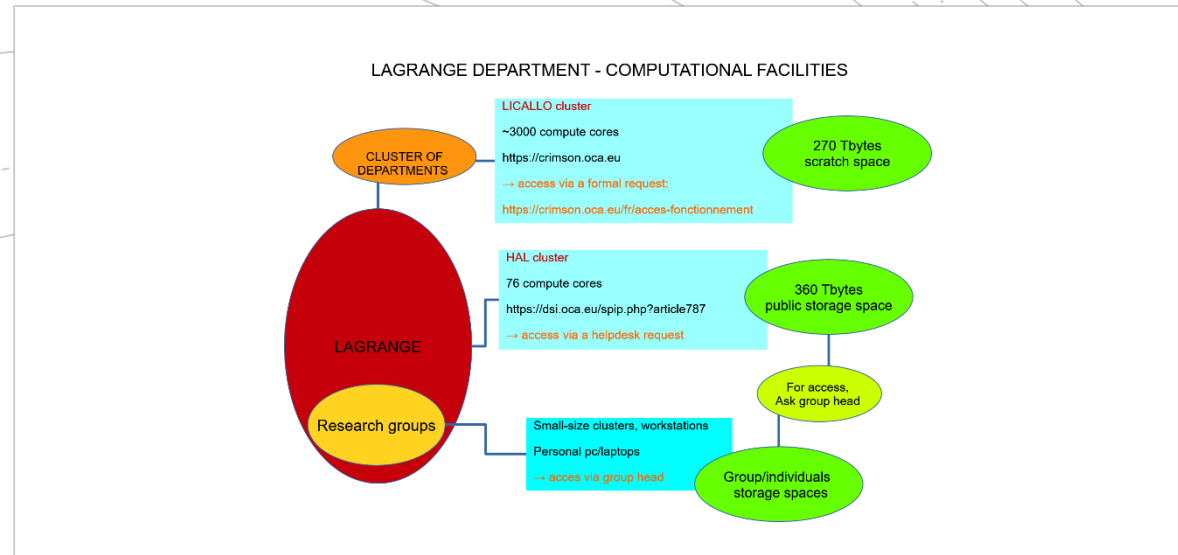
Chasse aux trous noirs : l'impact de la relativité générale

GIR & Administrative team

- The Research and Engineering group is composed of all technicians and engineers of the lab.



Équipe administrative du laboratoire joignable à Admin-lagrange@oca.eu



Lab resources

Main projects 1

- Gaia: 2013-2017



- Management (resp. DPAC)
- Scientific animation
- Software development
- Data Release 1: 14 Sept 2016, DR2: mid-2017, DR3: 2018, DR finale: 2020
- DataBase
- Large scientific exploitation
- Grands relevés spectro au sol (**WEAVE**): Phase A positionneur+ Lead Scientifique en + de Gaia + pipeline de mesures des Abondances (Sur le ciel en 2018, relevés 2018-2023)



- MATISSE

ESO project 2d generation VLT
Recombinaison 4 T, Bandes L, M, N



MATISSE consortium: OCA, INSU, MPIA Heidelberg, NOVA-ASTRON agency and University of Leiden, MPIfR de Bonn.

- Exploitation scientifique, physique stellaire, disques et exo-planètes



Main projects 2

EUCLID

ESA Mission (M) selected in 2011
(Cosmic Vision)

Launch: 2020, Duration: 6 years

Members: ESA, Thales Alenia Space, Airbus
Defence and Space

Euclid Consortium (14 countries, 120 institutes,
1350 members)



Objectives (main)

- Understanding the nature of the universe's acceleration
- Establish the properties, the nature of dark energy, test if there is a dynamic component
- Testing our theory of gravitation

and.....

ANR ARCHEOGAL, ORIGINIS,
GEPARD, PRISTINE, GIANTE, ANR
ESRR

ANR JOVIAL

ANR OATMIL

ANR PLANET FORMING DISK

ANR UNLOCKCEPHEIDS

ERC COSMO_SIMS

ERC KERNEL

H2020 OPTICON

H2020 AENEAS

Mission OSIRIS REX et HAYABUSA 2

SPEED

SKA

Financements CNES

MAPS



MAP of the Lab in Valrose

Plan du Parc Valrose et des bâtiments



Faculté de sciences
Bâtiment H. Fizeau
28, Av Valrose
06108 Nice Cedex 02

MAP of the Lab in Mont Gros

Le Laboratoire
est réparti dans
les bâtiments:

- CION
- PES (Direction)
- PHC

Observatoire de la Côte d'Azur

Bd de l'Observatoire

CS34229

06304 Nice Cedex4

Comment venir?

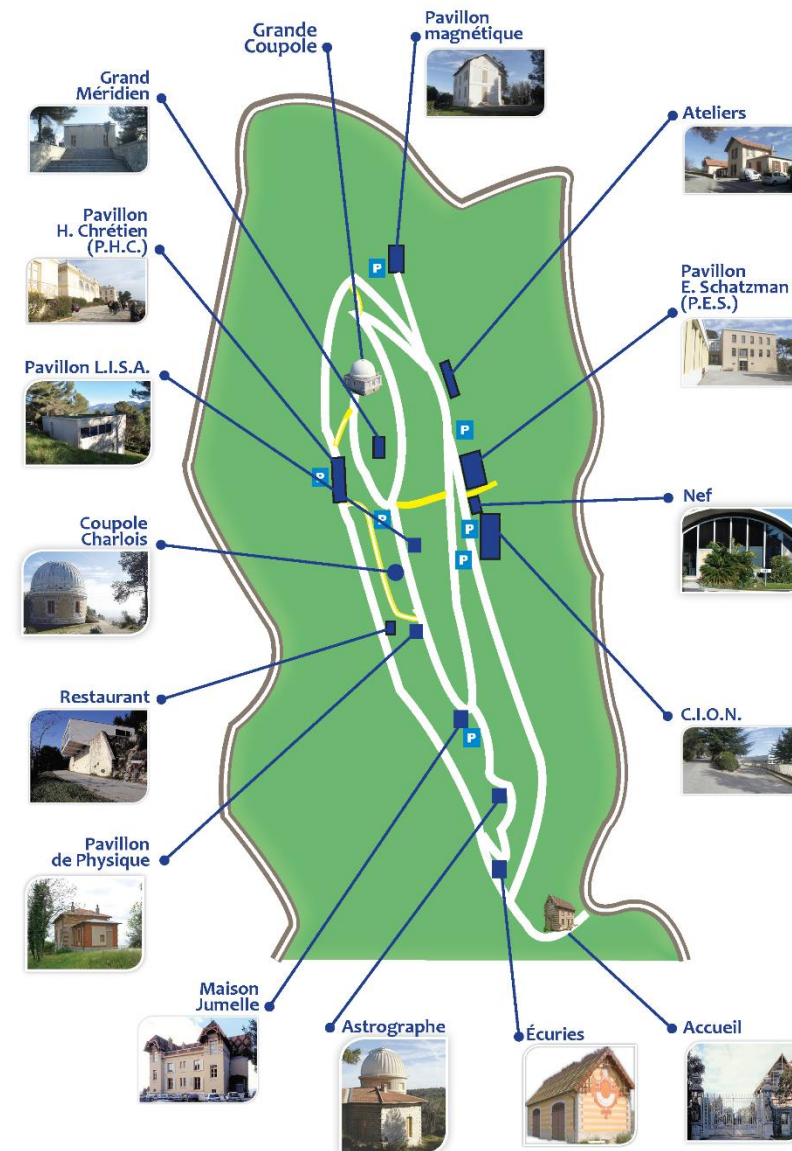
• - en bus: Ligne :84 Riquier - Baie
des Fourmis : Direction : Baie des
Fourmis Arrêt Observatoire

• En voiture: depuis autoroute A8

• - en Avion: aéroport de Nice



Site du Mont-Gros



04 92 00 30 11

At the arrival

- Meet with the team assistant.
- Meet with RH assistant: Jocelyne Bettini for trainees (stagiaires), Christine Delobelle for all other agents.
- Sign the network charte
- Sign the confidentiality agreement
- Sign attestation of l'attestation de connaissance du Règlement intérieur.

Excerpt from the internal regulations

- **Horaires journaliers, accès aux locaux, travail isolé:**
- The time slot will normally be included in the opening time range of the laboratory, set from 7:30 a.m. to 8:00 p.m. Monday to Friday. All staff must be on duty during the common operating time slot, set from 10 a.m. to 12 p.m. and from 2 p.m. to 4 p.m.
- *Pour l'ensemble des personnels, la pause méridienne est de 45 minutes minimum, sans toutefois excéder deux heures. Elle doit être prise entre 12h00 et 14h00.*
- After the Director's agreement and subject to the need for service, some staff may practice a schedule that is out of step with the opening time range of the laboratory.
- *Après accord du Directeur et sous condition des nécessités de service, certains personnels peuvent pratiquer un horaire décalé par rapport à la plage horaire d'ouverture du laboratoire*
- Access to premises outside these slots must be expressly and specifically authorized by the Director of the Unit.
- **L'accès aux locaux en dehors de ces plages doit être expressément et nommément autorisé par le Directeur de l'Unité.**
- Closure of the site (Mont-Gros or Valrose): Closing periods apply to all site staff.
- *Fermeture du site (Mont-Gros ou Valrose): Les périodes de fermeture s'appliquent à tout le personnel du site.*
- Privacy: Everyone is obliged to respect the confidentiality of the work entrusted to them and those of their colleagues
- *Confidentialité : Chacun est tenu de respecter la confidentialité des travaux qui lui sont confiés ainsi que ceux de ses collègues.*
- Publications: Publications by members of the Unit must show membership in the Unit and attachment to existing RI guardianships.
- *Publications : Les publications des membres de l'Unité doivent faire apparaître l'appartenance à l'Unité et le rattachement aux tutelles selon RI en vigueur.*
- [Version complète](#) sur le web.
- **Hygiène et Sécurité :**
- Vous devez avoir connaissance des [règles de sécurité](#) de votre environnement de travail. Vos [contacts](#) en prévention des risques sont sur le site web du Laboratoire.
- Hygiene and Safety: You need to be aware of the safety rules of your work environment. Your contacts in risk prevention are on the Laboratory's website.

How the Laboratory Works: Absences

- It is OBLIGATORY to deposit your leave on the software AGATE.
<https://agate.cnrs.fr/> for CNRS and OHRIS for OCA and UNS

- Sick stop/ Arrêt maladie
- For CNRS: On ARIANE
- For OCA and UNS:

In the event of a sick leave, sections 2 and 3 of the CERFA print 10170-05 should be forwarded within 48 hours (the post office is authentic) to the laboratory administration.

To the attention of

OBSERVATOIRE DE LA COTE D'AZUR/ LAGRANGE
A l'attention de Sophie ROUSSET
Boulevard de L'Observatoire
CS 34229
06304 NICE CEDEX 4

- At the same time, if you can, send the scan to rh-lagrange AT oca.eu (internal mail for Christine and Sophie). Especially if you drop the document directly to the lab.

**OCA
connection:
website,
mesocentre
etc....**

- The connection is that given by the OCA when you open your computer account.

Beware this connection is different from that used by the CNRS (called JANUS).

JANUS connection: CNRS interface (Simbad, AGATE, TEMPO)



The screenshot shows the JANUS login page. At the top left is the CNRS logo with the tagline "dépasser les frontières". To its right is the JANUS logo. Below the logos, the text "Janus - Gestion des identités" is displayed, followed by a link "? Aide". The main content area contains the instruction "Vous devez vous authentifier pour accéder à l'application". Below this are two input fields: "Identifiant:" with the value "prenom.nom@oca.eu" and "Mot de passe:". Both fields have a help icon (question mark in a circle) to their right. A "SE CONNECTER" button is positioned below the password field. At the bottom left, the word "Janus" is visible. At the bottom right, there is a yellow highlighted link that reads "Demander ou changer un mot de passe".

- To connect to JANUS for the first time, here is the procedure:
- Login (given by lab administration): your email address
- Password: When you first log in you need to ask for a password here:

Gérez et suivez vos demandes de congé

Avant la date du congé, vous pouvez **annuler** ou **modifier** une demande de congés.

<2012 **Calendrier 2013 de MARIE-PAULE VINCENT(mo)**

■ Déposée ■ Ouverte ■ En cours ■ Validée

Jan 13	Fév 13	Mar 13
01 Ma	01 Ve	01 Ve
02 Me	02 Sa	02 Sa
03 Je	03 Di	03 Di
04 Ve	04 Lu	04 Lu
05 Sa	05 Ma	05 Ma
06 Di	06 Me	06 Me
07 Lu	07 Je	07 Je
08 Ma	08 Ve	08 Ve

> Les jours fériés et de fermeture de l'unité sont signalés.

> La palette  vous permet de visualiser le statut de vos congés («Déposé», «validé», etc.).

Agate en bref pour les agents

Qui saisit les autorisations exceptionnelles d'absences (AEA) ?

Les AEA doivent être déposées par votre gestionnaire au vu des justificatifs que vous lui avez fournis.

Qui saisit les jours de fermeture de l'unité ?

Les jours de fermeture sont saisis par le gestionnaire et sont décomptés du compteur CA.

Problèmes de connexion ?

Contactez l'équipe SSI de la DR.

Des difficultés d'utilisation ?

Contactez le gestionnaire Agate de votre unité.

Où trouver de la documentation ?

La documentation est dans le menu **FAQ?**

La documentation réglementaire est sur le site internet de la DRH.

Mes absences pour maladie sont-elles visibles ?

Toutes mes absences sont visibles, seuls mon gestionnaire et mon valideur en voient le motif.

Agate sur mon smartphone ?

Agate est accessible depuis les navigateurs Web de votre Smartphone : navigateurs BlackBerry, Safari/iphone, Windows Mobile, Opéra Mobile et Opéra Mini, Chrome Android.



dépasser les frontières

agate

Gérer mes congés

Le mémo de l'Agent

Tout agent doit avoir un valideur pour pouvoir utiliser Agate.

Connexion à Agate via le navigateur :

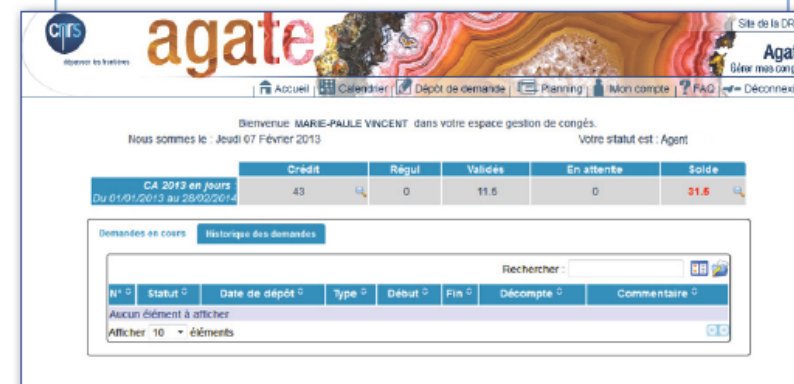
<https://agate.cnrs.fr>    

Accès contrôlé par Janus : **certificat** ou **mot de passe**.

Pour les agents CNRS et UNS uniquement

1^{ère} connexion

Pour déposer votre demande de congé ou d'absence, la personne validant habituellement vos congés et/ou absences doit être déclarée par le gestionnaire de votre unité dans Agate : elle sera votre valideur.



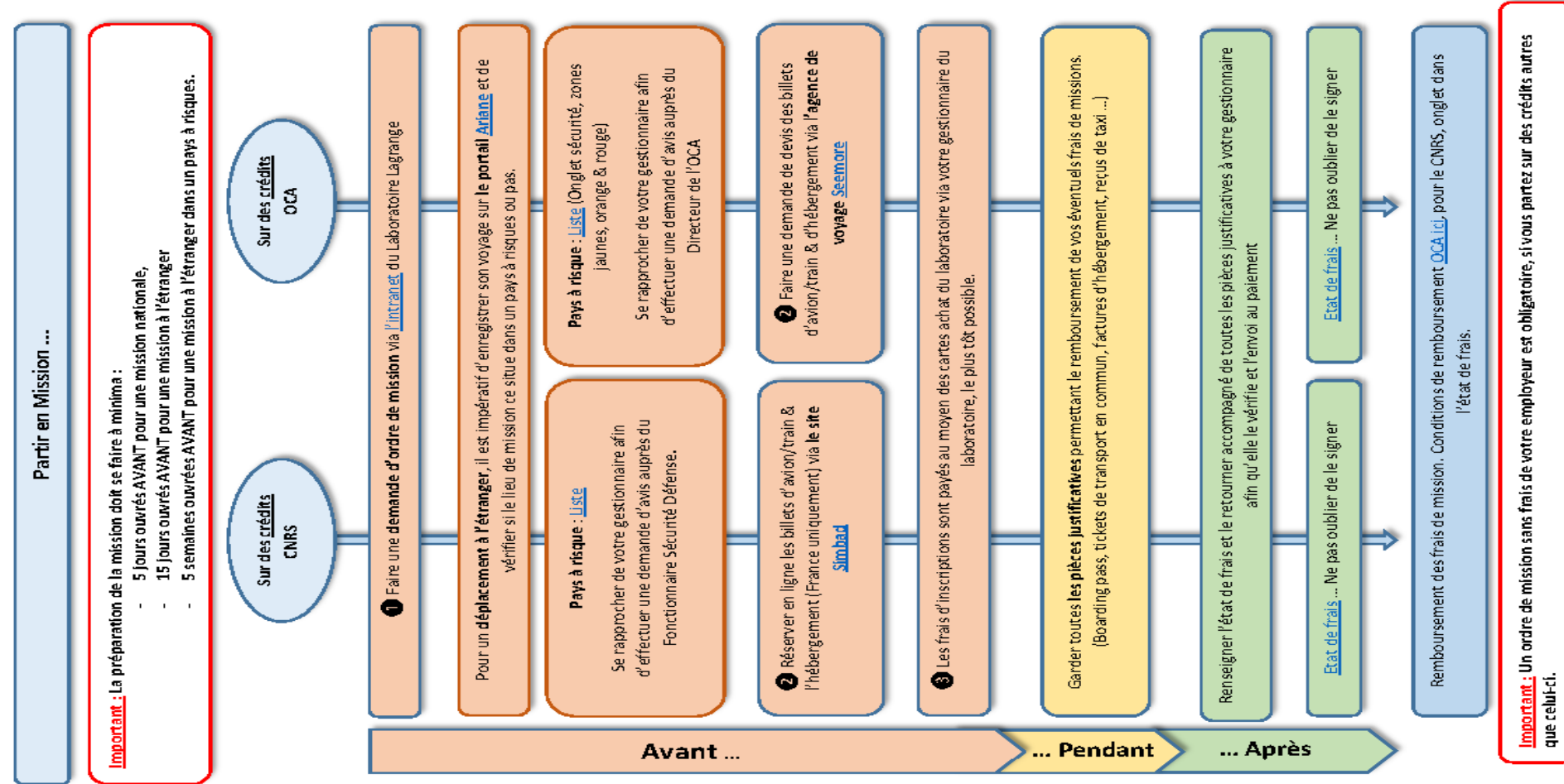
The screenshot shows the Agate web application interface. At the top, there's a navigation bar with links like Accueil, Calendrier, Dépôt de demande, Planning, Mon compte, FAQ, and Déconnexion. Below this, a welcome message for 'MARIE-PAULE VINCENT' is displayed, along with the user's status 'Agent'. A table shows key statistics: CA 2013 en jours (43), Régul (0), Validés (11.5), En attente (0), and Solde (21.5). Below the statistics, there's a section for 'Demandes en cours' with a 'Historique des demandes' button. A search bar and a table with columns for N°, Statut, Date de dépôt, Type, Début, Fin, Décompte, and Commentaire are also visible.

Les informations collectées font l'objet d'un traitement informatique destiné à la gestion des congés au CNRS. Les destinataires des données sont les SRH, les gestionnaires d'unités et les responsables hiérarchiques. Conformément à la loi Informatique et Libertés du 6 janvier 1978 modifiée en 2004, vous bénéficiez d'un droit d'accès et de rectification aux informations qui vous concernent, que vous pouvez exercer en vous adressant à ssti-drh@cnrs-dir.fr.

How the Laboratory Works: Badges

- For a request for a badge of access to Mont Gros, please contact Christine Delobelle.
- For a request for an access badge in Valrose, please contact Victoria Pellegrini.
- **How the Laboratory Works: Purchasing**
- Registration fees can be taken in advance by card purchase by your manager.

How the Laboratory Works: Missions



Practical information: DSI*



- It's TECHNOLOGY: Information System Directorate.
- On arrival: open an account, access the network, wifi, photocopier code, FAQs. Please contact your team manager before starting the process with the IT department.
-
- The website of the Information System Directorate of the Cote d'Azur Observatory is intended to share information about the computer tools made available to members of the Observatory regardless of the activity site.
- Among other things, you will find the conditions for access to these resources, and in particular the OCA's IT charter, which is a non-negotiable requirement for any use of the institution's IT resources.
- Its intranet allows users of the institution's computer resources to access the various tools available to them, to consult the FAQ answering the most frequent questions,...
-

Practical information: Les HELPDESK (OCA)

- A problem, a request? Make a ticket on [Le Helpdesk](#).
 - You can make a request to the following services:
 -
- Service 'Annuaire' (Demandes de mises à jour de l'annuaire de l'OCA)
- Service 'CRIMSON' (Mésocentre de Calcul (CRIMSON))
- Service 'DSI' (Direction des Systèmes d'Information de l'OCA)
- Service 'DPI Nice et Service Technique' (Direction du Patrimoine Immobilier de Nice)
- Service 'SI-Nice' (Service intérieur, pauses café Site du Mont Gros)
- Service 'Picard-Sol' (Projet Picard-Sol)
- Service 'Registre SST' (Registre de Santé et de Sécurité au Travail)
- Service 'SLC' (Service de Logistique Culturelle)

Practical information: Other

- **Library:** Consider registering at the library. All the information on the page [web](#) OCA website.
- **OCA Seminars:** Every Tuesday morning. Your participation in these seminars is highly recommended in order to encourage contact with researchers from different specialties.
- **La restauration:**
 - * **Mont-Gros:** A restaurant welcomes you every day (booking and menu : <https://casoca-cantines.oca.eu/>). In addition, each building is equipped with a rest room.
 - * **Valrose:** - CROUS Montebello : <http://www.crous-nice.fr/resto2.php> sur le Campus de Sciences
- Restauration centre des impôts: ARA 06 (Ex Aurain) : <http://www.cote-azur.cnrs.fr/Guide/SocialeGuide/GuideRestauration> .22 rue Joseph Cadéi
- **Room reservations :** accessible sur le site de l'OCA <https://www-g.oca.eu/intranet/reservations/?idroom=2>
- **Other welcome booklets :**
- L'OCA: https://www-intranet.oca.eu/IMG/pdf/Livret_Accueil_.pdf , L'UNS: <http://wiki.unice.fr/display/INTRANET/Livret+d%27accueil+des+personnels>
- Social Action: Three employer social action committees:
- [Le CASOCA](#) : Comité d'Action Sociale de l'OCA
- [Le CAES](#) : Comité d'Action et d'Entr'aide Sociale du CNRS
- [Le CASUN](#) : Comité d'Action Sociale de l'Université de Nice

Emergency numbers

- **MONT GROS:**
- **Guardian (C. Capriani): 06.26.79.73.30**
- **Home: 9 or 04.92.00.30.11**
- **Hygiene and Safety Engineer (JF Bernadac): 06.20.38.09.17**
- **Prevention Assistant Lab: B. Pichon (0492003183)**
-
- **VALROSE:**
- Prevention Assistant Lab: J. Dejonghe (0492076574)**
- Engineer and Security Campus: Julien Carignano: Tel. 04 92 07 60 87)**
- LOGE: Tel. 04 92 07 69 39 or 9**
- Infirmery: 04 92 07 61 99**

Les numéros d'urgence: 112

POLICE SECOURS: 17

POMPIERS : 18

SAMU : 15

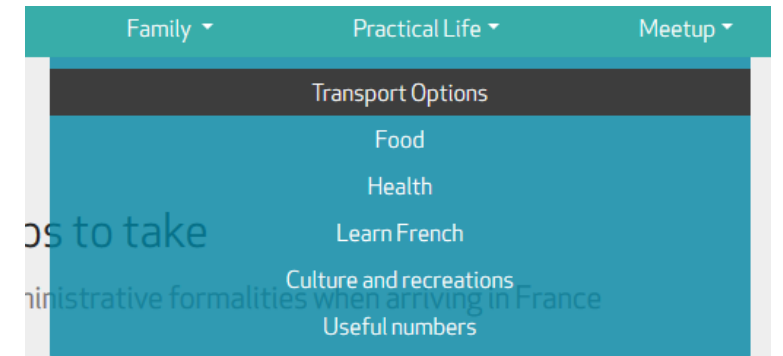
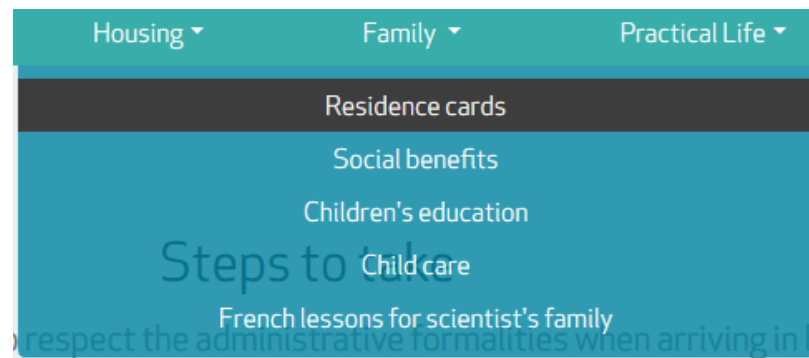
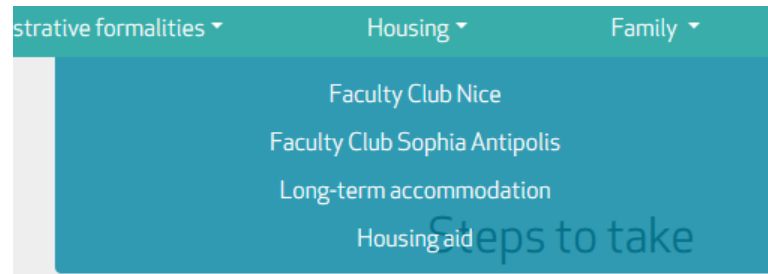
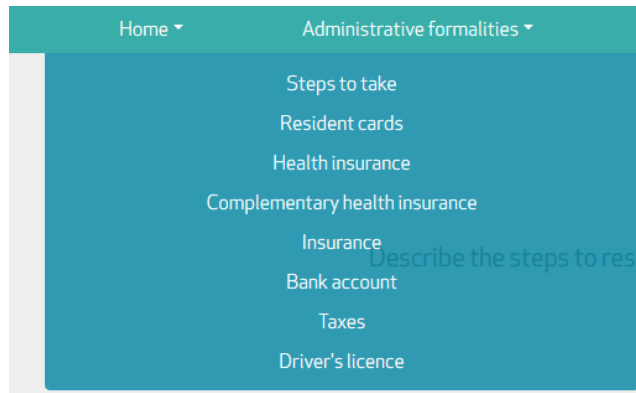
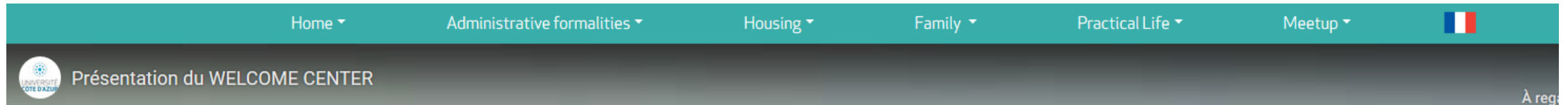
About Nice and its neighbourhood

- Housing and Solidarity Caution: <http://www.lokaviz.fr/>
- City of Nice : <http://www.nice.fr/>
- Transportation : <http://www.lignesdazur.com/> (Bus et tramway)
- Interactive Nice Map : <http://www.plan-nice.org/>
- The azure students' portal : <http://etudiants.nice.fr/> (recommandé y compris pour les non- étudiants avec version anglaise et espagnole – infos pratiques, logements, sorties, transports, bon plans etc...)
- The General Council of the Maritime Alps : <http://www.cg06.fr/>
- The town hall and public services : <http://www.nice.fr/Collectivites/Demarches-administratives>
- The Prefecture : <http://www.alpes-maritimes.pref.gouv.fr/>
- The reception of foreigners in the prefecture : <http://www.alpes-maritimes.pref.gouv.fr/Vos-demarches/Etrangers>
- Public service for foreigners in France : <http://vosdroits.service-public.fr/particuliers/N20306.xhtml>
- CAF et Assurance maladie : affiliation et remboursements des soins : <http://vosdroits.service-public.fr/particuliers/N418.xhtml>
- Taxes: <http://www.impots.gouv.fr/>
- Children's corner : <http://www.recreanice.fr/> (tous les parcs, sorties, spectacles pour les 0- 12 ans)...pensez à vérifier si le **CASOCA** ne vous propose pas des tarifs intéressants !

UCA Welcome Center website for foreigners

- **Before leaving for France, the scientist must remember to:**
- **Register on the EURAXESS data base** for researchers and doctoral students. The [EURAXESS platform](#) has advice and lists open positions... etc [> Register now](#)
- **Request a Hosting Agreement** (*Convention d'Accueil*, Visa D) from the hosting higher education establishment or secure an invitation letter (Visa C) for a stay of less than 90 days. [Please check here if you need a visa](#)
- **Request a Visa** at least two months prior to departure online [here](#) or at [the French Consulate closest to the scientist's residence](#) (only for people born in third-party countries). There are two types of Visas:
- **The long-stay D Visa:** Concerns stays over 90 days in France and can have several qualifications: "Talent Passport" (for individuals having obtained a welcome convention, "Student" (for master students and doctoral students registered in a French higher education establishment and who do not have a work contract), "Family Talent Passport" (for children under 18 and researcher spouses) and "Visitor" (for the spouses of doctoral students on a student visa, domestic partners and adult children). Each mention attributes different rights. For example, the mention "Visitor" does not permit work in France. On the other hand, the mention "Family Talent Passport" does. It is therefore important to properly fill out one's Visa request because once in France, no modifications will be possible.
- At the end of the period of validity of the researcher's and his/her family's Visa, it is imperative to request a residence card in order to continue living on the territory.
- **The Short-Stay C Visa (also called the « Schengen Visa »):**
- This Visa concerns stays of less or equal to 90 days in France. As a reminder, it is not necessary to have a welcome convention (*convention d'accueil*). An invitation letter from the hosting establishment is sufficient.
-
- **Gather the documents** necessary for your stay
[> Learn more](#)
- **Request temporary lodging at the Faculty Club through the Welcome Center**
[> in Nice](#) or [Sophia Antipolis](#)

All information on Welcome center website!



Social security

- If you are employed by the CNRS or the OCA, your employer will register for Social Security.
- If after 2 months after your arrival, you have not received any mail from health insurance, please contact Christine.
- If you have a contract with UCA, please contact Christine as soon as you arrive so that she can make an appointment with a Social Security correspondent.
-

For PhD students

ANNÉE UNIVERSITAIRE 2018-2019

***** **NOUVEAU ET OBLIGATOIRE** *****
AVANT de débuter votre inscription en ligne, vous devez vous **acquitter*** de la
 Contribution Vie Étudiante et de Campus (CVEC),
 auprès du **CROUS**, pour un montant unique de 90€.
 Un **numéro** vous sera communiqué à l'issue du paiement.
 Il vous sera nécessaire pour réaliser votre inscription en ligne.
 (* Les étudiants en formation continue sont non assujettis à cette contribution).

- Each year, university enrolment is mandatory
- **Annual university enrolment** <http://unice.fr/inscription-reinscription/formation/inscriptions>
- Please note that you must submit proof of registration to the Doctoral School AND at the University to the Laboratory's staff follow-up manager (Christine Delobelle).

Registration to doctoral school

- **Inscriptions à l'Ecole Doctorale:**

- S'adresser au Secrétariat de l'école Doctorale SFA

Secretariat-edsfa@unice.fr

8h30 - 12h00 - Tél 04.92.07.65.00

Bât Sclolarité, 1er étage, Av Joseph Vallot, 06100 Nice

<http://www.ed-sfa-unice.fr/>

Attention
l'inscription et/la
réinscription est à
faire chaque année

- **La MED, guichet unique:** aide tous les doctorants dans leur accompagnement administratif et universitaire

- **<http://univ-cotedazur.fr/archives/fr/uca-education/ecolesdoctorales/guide-doctorant/presentation-de-uca/maison-des-etudesdoctorales-med>**

Taxes

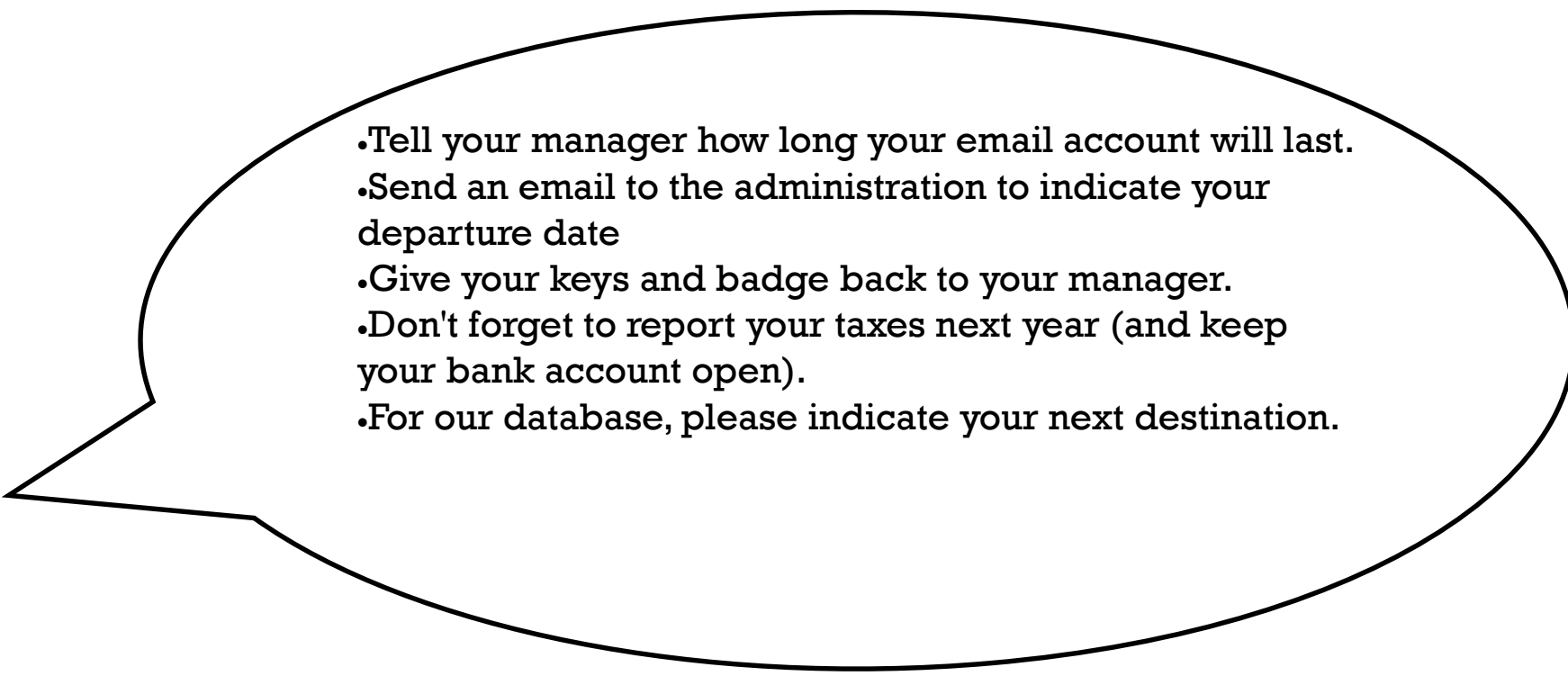
-

IMPOTS

In France, taxes will be deducted directly from your salary.
For information, please refer to the official website

<http://www.impots.gouv.fr> et <http://www.diplomatie.gouv.fr/>

Before leaving!

- 
- Tell your manager how long your email account will last.
 - Send an email to the administration to indicate your departure date
 - Give your keys and badge back to your manager.
 - Don't forget to report your taxes next year (and keep your bank account open).
 - For our database, please indicate your next destination.