2023/2024
Fall Semester
Minors
&
Projects
A fully modular education program

https://ds4h.univ-cotedazur.eu/education

Your Master Curriculum

- Mandatory Disciplinary Courses
- Optional Courses
  - Disciplinary Options
  - DS4H multidisciplinary options
    - Minors / Thematic schools
    - Projects

Your PhD Curriculum

- Thesis
- « heures de formation »
  - DS4H multidisciplinary options
  - Minors / Thematic schools
  - Students’ Supervision Training
<table>
<thead>
<tr>
<th>Curriculum</th>
<th>Initial Training</th>
<th>Apprenticeship</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Minors</td>
<td>Projects</td>
</tr>
<tr>
<td>M1 Informatique</td>
<td>possible</td>
<td>mandatory</td>
</tr>
<tr>
<td>M2 Informatique, except Ubinet</td>
<td>possible</td>
<td>no</td>
</tr>
<tr>
<td>M2 Informatique, Ubinet</td>
<td>possible</td>
<td>no</td>
</tr>
<tr>
<td>M1 MIAGE</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>M2 MIAGE INTENSE</td>
<td>mandatory</td>
<td>no</td>
</tr>
<tr>
<td>M2 MIAGE SIRIS</td>
<td>mandatory</td>
<td>no</td>
</tr>
<tr>
<td>M2 MIAGE MBDOS</td>
<td>mandatory</td>
<td>no</td>
</tr>
<tr>
<td>M2 MIAGE I2</td>
<td>mandatory</td>
<td>no</td>
</tr>
<tr>
<td>M1 Electronique</td>
<td>possible</td>
<td>possible</td>
</tr>
<tr>
<td>M2 Electronique</td>
<td>possible</td>
<td>possible</td>
</tr>
<tr>
<td>M1 Stratégie Digitale</td>
<td>possible</td>
<td>possible</td>
</tr>
<tr>
<td>M2 Stratégie Digitale</td>
<td>possible</td>
<td>possible</td>
</tr>
<tr>
<td>M1 Droit des affaires</td>
<td>possible</td>
<td>possible</td>
</tr>
<tr>
<td>M2 Droit de la propriété intellectuelle et des nouvelles technologies</td>
<td>mandatory</td>
<td>possible</td>
</tr>
<tr>
<td>M1 EIT Digital</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>M2 EIT Digital</td>
<td>possible</td>
<td>no</td>
</tr>
<tr>
<td>M1 HIC MAJIC</td>
<td>possible</td>
<td>no</td>
</tr>
<tr>
<td>M2 HIC MAJIC</td>
<td>possible</td>
<td>no</td>
</tr>
<tr>
<td>M1 HIC MAPI</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>M2 HIC MAPI</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>M1 Ergonomie ECTN</td>
<td>mandatory</td>
<td>no</td>
</tr>
<tr>
<td>M1 LITTPC</td>
<td>possible</td>
<td>no</td>
</tr>
<tr>
<td>M2 LITTPC</td>
<td>possible</td>
<td>no</td>
</tr>
<tr>
<td>M1 LEA IAI RFI</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>M2 LEA TRE</td>
<td>mandatory</td>
<td>possible</td>
</tr>
<tr>
<td>ED DESPEG</td>
<td>possible</td>
<td>possible as a supervisor</td>
</tr>
<tr>
<td>ED SHAL</td>
<td>possible</td>
<td>possible as a supervisor</td>
</tr>
<tr>
<td>ED STIC</td>
<td>possible</td>
<td>possible as a supervisor</td>
</tr>
</tbody>
</table>

Who is concerned?
DS4H Projects offer in a nutshell

Run individual and group projects to sharpen your professional objectives!

- For Master Students
- You choose one project/semester (3 or 6 ECTS)
- Total of ~ 90h

https://ds4h.univ-cotedazur.eu/projects

Research Projects in Tutorship
Tutorships provide training to research
Immerse yourself in a lab.

Multidisciplinary Research Projects
Join a team of students from different disciplines working on a shared topic.

HIC - Creativity Multidisciplinary Projects
Take part in the development of a video game.
12h00-12h45

DS4H Research Projects

https://www.youtube.com/watch?v=QTyGycevMPU
DS4H Research Projects

• (3 to) 6 ECTS
• One day / week for a minimum of 8 weeks
• + one full week immersion (18-22 December)

See the research projects open this semester
Where to find Fall 2023 Research projects?

https://ds4h.univ-cotedazur.eu/wishes

2 - FIND OUT ABOUT FALL 2023 SEMESTER OPTIONS

2023, SEPTEMBER, 14TH - INFORMATION MEETING

Do not miss this meeting to know all about minors and projects open this semester! On SophiaTech Campus and online. Find out more!

<table>
<thead>
<tr>
<th>DS4H OPTIONS</th>
<th>MINORS</th>
<th>PROJECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>What is a DS4H minor and how does it work?</td>
<td>What is a DS4H project and how does it work?</td>
<td></td>
</tr>
<tr>
<td><strong>YOU'RE A MASTER STUDENT</strong></td>
<td>Syllabuses, schedules, evaluation modalities:</td>
<td>Discover the research projects open in Fall 2023 semester:</td>
</tr>
<tr>
<td></td>
<td>Discover the minors open in the Fall 2023 semester</td>
<td>• Tutorships</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Multidisciplinary Research Projects</td>
</tr>
<tr>
<td><strong>YOU'RE A PhD CANDIDATE</strong></td>
<td>Syllabuses, schedules, evaluation modalities:</td>
<td>You can take part in DS4H projects as a supervisor:</td>
</tr>
<tr>
<td></td>
<td>Discover the minors open in the Fall 2023 semester</td>
<td>• Submit a project and supervise a Master Student</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Take a Student's Supervision Training</td>
</tr>
</tbody>
</table>

Discover HIC Creativity projects open in Fall 2023 semester.
**DS4H Research Projects**

See the open projects this semester

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Tutorships and multidisciplinary projects browser

You can discover tutorships and multidisciplinary projects proposed here. Project selection will start on September 15, 2023. If you are interested in a subject, get in touch with the advisor by email. Tutorships allocations depend on the agreement of the advisor regarding the student profile. Multidisciplinary projects allocation depend on the constitution of the multidisciplinary team.

<table>
<thead>
<tr>
<th>Tutorship</th>
<th>Domain(s)</th>
<th>Advisor</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science</td>
<td>CHUAN XU (INRIA)</td>
<td>Differential privacy and byzantine resilience in federated learning</td>
<td></td>
</tr>
<tr>
<td>Tutorship</td>
<td>Computer Science</td>
<td>Anaïs Ollagnier (I3S)</td>
<td>Advanced metrics to search within ontology catalogs</td>
</tr>
<tr>
<td>Tutorship</td>
<td>Computer Science</td>
<td>Daniel Gaffé (LEAT)</td>
<td>Symbolic handling of numerical constraints by Linear Decision Diagrams (LDD)</td>
</tr>
<tr>
<td>Tutorship</td>
<td>Electronics</td>
<td>Daniel gaffé (LEAT)</td>
<td>Model Checking by Linear Decision Diagrams (LDD)</td>
</tr>
<tr>
<td>Tutorship</td>
<td>Computer Science</td>
<td>Anaïs Ollagnier (I3S)</td>
<td>High-Level Taxonomy of NLP tasks</td>
</tr>
<tr>
<td>Tutorship</td>
<td>Computer Science</td>
<td>Anaïs Ollagnier (I3S)</td>
<td>Improving Hate Speech Detection Using Pragmatic-Level Information</td>
</tr>
<tr>
<td>Tutorship</td>
<td>Computer Science</td>
<td>Anaïs Ollagnier (I3S)</td>
<td>Assessing Hate speech/oppressive detection robustness</td>
</tr>
<tr>
<td>Tutorship</td>
<td>Computer Science</td>
<td>Sid Touali (I3S/INRIA)</td>
<td>À la découverte de la programmation parallèle avec OpenMP</td>
</tr>
<tr>
<td>Tutorship</td>
<td>Computer Science</td>
<td>Gaëtan Rey (I3S)</td>
<td>Contexte Utilisateur et Réalité Augmentée/Mixte</td>
</tr>
<tr>
<td>Tutorship</td>
<td>Computer Science</td>
<td>Michel BUCCA (I3S)</td>
<td>Amélioration d’un sampler audio logiciel fonctionnant sous forme de plugin WebAudio (dans navigateur Web)</td>
</tr>
<tr>
<td>Tutorship</td>
<td>Computer Science</td>
<td>Michel BUCCA (I3S)</td>
<td>Ajout de fonctionnalités dans un séquenceur audio en ligne / station de travail audio numérique</td>
</tr>
<tr>
<td>Tutorship</td>
<td>Computer Science</td>
<td>Chadi Barakat (Diana)</td>
<td>Mining the ACQUA dataset and improving the application</td>
</tr>
</tbody>
</table>

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Make sure you’re on the right semester!
Example of tutorships

- Evolutionary Multimodal Optimization
- Cellular Evolutionary Algorithms

Tutor: Denis Pallez, I3S laboratory, Université Côte d’Azur-CNRS

Watch the video
STEP 1  
from Sept 18th

> Enter your wish of project on EREBE
+ in the mean time get in touch and meet the supervisor of the wished project

> The supervisor accepts your candidature and you accept the project?
Inform before Sept 25th
ds4h-pedagogie@univ-cotedazur.fr

> Wait for the Master’s responsible agreement. He/She agrees?
Go to Step 2

STEP 2  
before Oct 1st

> Proceed to your tutorship agreement including the agreed schedule (to be defined between student and supervisor) for the Fall semester:

  • one day / week during a minimum of 8 weeks
  • + one week immersion (18-22 Dec)
  = minimum of 91h
STEP 3
Once candidature is accepted and tutorship agreement edited

A research project during Fall 2023: Note the dates!

<table>
<thead>
<tr>
<th>When?</th>
<th>What?</th>
<th>Where?</th>
</tr>
</thead>
<tbody>
<tr>
<td>October 13th, 12h00-14h00</td>
<td>Research Project welcome</td>
<td>Campus SophiaTech, Lucioles, TD14</td>
</tr>
<tr>
<td>November 27th to Dec 1st</td>
<td>Mid-term meetings</td>
<td>Host laboratory</td>
</tr>
<tr>
<td>December 8th</td>
<td>Mid-term report submission deadline</td>
<td></td>
</tr>
<tr>
<td>December 18th to 22nd</td>
<td>Immersion week</td>
<td>Host laboratory</td>
</tr>
<tr>
<td>December 22nd, 12h00-15h00</td>
<td>Course &quot;How to become an effective communicator?&quot;</td>
<td>Campus SophiaTech, Lucioles, TD06</td>
</tr>
<tr>
<td>January 10th, 23h00</td>
<td>Final written report submission deadline</td>
<td></td>
</tr>
<tr>
<td>January 11th to 15th</td>
<td>Oral defense practice sessions</td>
<td>Campus SophiaTech, Lucioles, TD14 + 285</td>
</tr>
<tr>
<td>8h00-18h00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>January 18th to 22nd</td>
<td>Final oral defense</td>
<td>Campus SophiaTech, Lucioles, TD14 + 285</td>
</tr>
<tr>
<td>8h00-18h00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>January 22nd, 12h00-14h00</td>
<td>Reflexive session</td>
<td>Campus SophiaTech, Lucioles, TD14</td>
</tr>
<tr>
<td>January 24th, 23h00</td>
<td>Reflexive essay submission deadline</td>
<td></td>
</tr>
</tbody>
</table>

Any question? Contact ds4h-pedagogie@univ-cotedazur.fr
Q&A with research projects supervisors (>12h45)

https://app.wooclap.com/FCJIIIG
12h45-13h15
DS4H HIC Creativity Projects
Where to find Fall 2023 HIC Creativity projects?

https://ds4h.univ-cotedazur.eu/wishes

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<td>Discover the research projects open in Fall 2023 semester: Tutorials, Multidisciplinary Research Projects</td>
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<td>You can partake in DS4H projects as a supervisor: Submit a project and supervise a Master Student, Take a Student’s Supervision Training</td>
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</table>

Discover **HIC Creativity projects** open in Fall 2023 semester.
Multidisciplinary Creativity Projects

*from Sept 18th*

- Enter your wish of project on [EREBE](#) + in the mean time get in touch and meet the HIC team

- The HIC team accepts your candidature?
  
  **Inform before Sept 25th**
  
  ds4h-pedagogie@univ-cotedazur.fr
DS4H – HIC Multidisciplinary Creativity Projects

Marc MARTI

Take part in the development of a video game prototype

DS4H Graduate school's Master students (in Computer Science, Electronics, Economy, Law, etc.) can join multidisciplinary teams alongside students from the HIC (Humanities and Creative Industries) master's degree program, Management, Jeu vidéo, Image, Créativité (MAJIC).

Give the group the benefit of your knowledge/skills in your discipline and acquire new ones, such as communication, cooperative and teamwork skills e.g. planning, management, leadership and peer support.

Video game prototypes will be presented at the Festival International des Jeux in Cannes.

FALL 2023

HIC Creativity Projects

Take part in the development of a video game!

FÉVRIER 2024
COSMOSTASIA: a trial of hope

Contact: GUILLAUME GIOAN
gioan.guillaume@gmail.com
Cosmostasia: a Trial of Hope
Team:

Raphaël Lesbros
Coordinator
Developer
  ND
  GD

Chloé Bigot
Coordinator
2D/3D Artist
  GD

Guillaume “Eleque” Gioan
Coordinator
2D/3D Artist
  ND
  GD

Bastien Okonski
External Resource
  SD

Needs:

UI/UX Designer
Community Manager
Pitch:

The ultimate trial for your world salvation.

In the Cosmostasia coliseum, people from dying universes, fight so that the Judge grant them a wish. But victory is never certain, and everyone fears spending their final days in Ceteras with the weight of their failure.

Compose your team from the best contestants, combine their cards and abilities to build your deck, and claim victory.
Game pillars:

- Vue plateau / scène de jeu
- Turn-based versus
- Draft character selection
- Deckbuilding depending on the chosen characters
ANTHARES

Contact: KILLIAN GABAUT
gabaut.killian@gmail.com
In a future where cyber technology is omnipresent, the big Anthares tournament is organized by The Talos Conglomerate. Fighters answer the call whether for glory or money. Most are equipped with improvements purchased or provided by the corporations that sponsor them, whether cybernetic and/or bionic implants.

Play as different fighters with unique skills to defeat your opponent in a local 1vs1. Take advantage of ubiquitous technology to gain decisive advantages in the outcome of combat while evolving through trapped and dynamic terrain in this fast and fluid fighting game. Win, in order to become a Show-bizness legend!
- 3D
- Local 1 VS 1
- Traps and hazards
- Fast paced
MOTION CAPTURE

EXPORT TO 3D SOFTWARE

▪ Export to FBX format in Blender and Maya

▪ 60 frames per second

▪ Adaptation, polishing, and corrections of skeleton animations if necessary

▪ Frame cutting to achieve the desired effect

IN-GAME IMPLEMENTATION
GENESIS

Contact: JULIA CORDEL
cordeljulia@gmail.com
Au fin fond du cosmos, vous incarnez une jeune femme nommée « Bang ». À l’aide de votre bonne étoile, "Sol", parcourez cet **univers** à la recherche de vos souvenirs perdus.

Des **entités mystérieuses** sont déterminées à stopper votre quête. Pour surmonter ces armées galactiques, libérez votre puissance et regagnez vos **armes cosmiques**. Par votre détermination et votre potentiel, retrouvez votre identité et votre rôle dans cet univers. Au paroxysme de votre périple, votre **choix** déterminera le sort du monde.
Des mondes émotions

- Monde à thématiques
- Plateformer action 2D à niveau Linéaire
- Alterne phase de Gameplay/Narration (dialogues et cinématiques doublés)
- Fin de chaque monde : combat contre boss + choix du joueur déterminant la fin du jeu.
- Récompense : partie de bang + armes
- Ambiance sonore propre à chaque niveau.
- Phase actions : Musique dynamique
- Phase narratives : musiques calmes Introspective
- FX des armes
- Inspiration science fiction à la Star Wars.
## Postes à pourvoir

<table>
<thead>
<tr>
<th>Rôles</th>
<th>Minimum</th>
<th>Ideal</th>
<th>Missions</th>
</tr>
</thead>
<tbody>
<tr>
<td>UI/artiste 2D</td>
<td>2</td>
<td>3</td>
<td>Graphisme environnement/décor</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Animation 2D</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cinématique 2D</td>
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<td></td>
<td></td>
<td></td>
<td>UI dialogues, UI combat</td>
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<tr>
<td>Sound Designer</td>
<td>2</td>
<td>3</td>
<td>Musique du jeu et des cinématiques</td>
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<tr>
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<td></td>
<td></td>
<td>SFXs et mixages des voix et Doublage</td>
</tr>
<tr>
<td>GD/Dev/LD</td>
<td>1</td>
<td>2</td>
<td>Création du GDD</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Conception des niveaux</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Développement sur Godot</td>
</tr>
</tbody>
</table>
The Team

CORDEL Julia  
PO, Lead DA

BLANC Zoé  
SD

PETRIC Nasha  
SD

Ressources Externes:
Xily: Développeur
Joyboy: ND, GD

Cinématique Monde 1

Demo Level Design

https://www.youtube.com/watch?v=RQqB6snGNW4&themeRefresh=1&ab_channel=VincentT
https://www.youtube.com/watch?v=aj_x-T0X48e
https://www.youtube.com/watch?v=aj_x-T0X48e
https://www.youtube.com/watch?v=aj_x-T0X48e
HEBALD FOREST
The Last Goodbye
Goals

Open world
Narrative game
Related quests

30/40 min
Needs

Anyone  UI/UX  Developers
Q&A with HIC Creativity Projects teams (>13h15)

https://app.wooclap.com/FCJIIG
13h15-13h30
ADAMS QUIZ!

Let’s play together!

http://www.kahoot.it
13h30-14h50
Training and supervision opportunities (PhDs)
DS4H Minors, Thematic School (Master+PhDs)

https://ds4h.univ-cotedazur.eu/minors
Students’ Supervision Training (SST) + supervision of master students conducting a research project

- For PhD Candidates
- Without prerequisite

You can enroll the training through this site:
https://adum.fr/script/formations.pl?mod=3523249&site=uca

« Students’ Supervision »

• Role of Supervisor
• Effective Communication and Active Listening
• How to give constructive Feedback
• Reflexive Session

Sessions include theory and practice as well as role play.

Submit a research project and supervise a master student

You get « formation » hours (7,5h)

• You get new perspectives on your work
• You get experience in supervising students

You can submit your project(s) through this site:
http://erebe-vm6.i3s.unice.fr:8080/eur-options/DS4HProjectSubmission.html
Students’ Supervision Training

Coordinator: Anne-Laure SIMONELLI

PhD COURSE

WHAT YOU’LL LEARN?
- Understand the role of the supervisor
- Identify supervision techniques
- Identify occasions when written or oral communication is appropriate
- Effective Communication
- Understand what constitutes a successful meeting
- Encourage and realize the importance of constructive feedback
- Enable processing active self reflection

- For PhD candidates only (SHAL, DESPEG, STIC)
- In English
- Without prerequisites

FORMAT
- Classroom

LOCATION
- Campus SophiaTech

PREREQUISITES
- Being a PhD Candidate from Université Côte d’Azur

CAPACITY
- 10 students
### SCHEDULE

<table>
<thead>
<tr>
<th>Date</th>
<th>Time slot</th>
<th>Course title</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>04/12/2023</td>
<td>12h00-14h00</td>
<td>SST#1 - Being an effective supervisor</td>
<td>Campus Sophia Tech, Lucioles, room TD14</td>
</tr>
<tr>
<td>18/12/2023</td>
<td>12h00-14h00</td>
<td>SST #II a - Feedback Theory</td>
<td>Campus Sophia Tech, Lucioles, room TD14</td>
</tr>
<tr>
<td>11/01/2024</td>
<td>08h30-12h30</td>
<td>SST #II a - Feedback Practice</td>
<td>Campus Sophia Tech, Lucioles, room TD14</td>
</tr>
<tr>
<td></td>
<td>13h30-17h30</td>
<td>SST #II a - Feedback Practice</td>
<td>Campus Sophia Tech, Lucioles, room TD14</td>
</tr>
<tr>
<td>12/01/2024</td>
<td>08h30-12h30</td>
<td>SST #II a - Feedback Practice</td>
<td>Campus Sophia Tech, Lucioles, room TD14</td>
</tr>
<tr>
<td></td>
<td>13h30-17h30</td>
<td>SST #II a - Feedback Practice</td>
<td>Campus Sophia Tech, Lucioles, room TD14</td>
</tr>
<tr>
<td>15/01/2024</td>
<td>15h00-17h00</td>
<td>SST #II b - Feedback from feedback</td>
<td>Campus Sophia Tech, Lucioles, room TD14</td>
</tr>
<tr>
<td>29/01/2024</td>
<td>12h00-14h00</td>
<td>SST #III - Role play</td>
<td>Campus Sophia Tech, Lucioles, room TD14</td>
</tr>
<tr>
<td>05/02/2024</td>
<td>12h00-14h00</td>
<td>SST#IV - Reflective session</td>
<td>Campus Sophia Tech, Lucioles, room TD14</td>
</tr>
</tbody>
</table>

* Only one mandatory feedback practice session is needed
DS4H Minors in a nutshell

- For Master students and PhD candidates
- 3 ECTS
- On Thursday mornings
- No prerequisite *
- From mid-October to early-December
- In English

NEW THIS SEMESTER!

THEMATIC SCHOOL from 18 to 22 December

For Master and PhDs. 3ECTS. No Prerequisite. In English.
Tools 2 Communicate

https://ds4h.univ-cotedazur.eu/minors
DS4H Minors & Thematic schools in a nutshell

Additional courses to access new disciplines alongside your major.

Technical
- Web Technologies / Javascript intro
- Artificial Intelligence: Intro to Deep Learning
- Quantum Engineering
- Sensor and Network devices

- Introduction to Scientific Research
- Organize your activity in project mode (Minor)
- Tools 2 Communicate (Thematic School)

Business
- Digital Strategy
- Website creation

- IoT devices
- ICT and Environment
- Anthropology and Ethics of Technics
- Digital IP and Law

Innovation and Creativity
- Sociology of Creative Industries
- Innovation and Design Thinking

Personal development
- Introduction to Scientific Research
- Organize your activity in project mode (Minor)
- Tools 2 Communicate (Thematic School)

- For Master and PhD Candidates
- One minor or one thematic school / semester (3 ECTS) (3 wishes)
- On Thursday mornings (Minors) / 18-22 Dec (Thematic School)
- In English
- Without prerequisite*

* Check Prerequisites!
DS4H minors / Fall 2023

Technical
- Web Technologies / Javascript intro
- Artificial Intelligence: Intro to Deep Learning
- Quantum Engineering
- Sensor and Network devices

Personal development
- Introduction to Scientific Research
- Organize your activity in project mode (Minor)
- Tools 2 Communicate (Thematic School)

Digital Culture
- Technological challenges in the IoT domain
- ICT and Environment
- Anthropology and Ethics of Technics
- Digital IP and Law

Business
- Digital Strategy
- Website creation Workshop

Innovation and Creativity
- Sociology of Creative Industries
- Innovation and Design Thinking
- Innovation and Creativity

https://ds4h.univ-cotedazur.eu/minors
<table>
<thead>
<tr>
<th>CONTENTS</th>
<th>MINOR Web Technologies (Javascript introduction)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHAT YOU’LL LEARN?</td>
<td>Coordinator: Michel BUFFA</td>
</tr>
<tr>
<td>• How to add JavaScript (JS) code in your Web site/Web app, how to debug it</td>
<td>Online courses and live tutorial sessions</td>
</tr>
<tr>
<td>• How to make interactive Web sites through the DOM API</td>
<td>Online</td>
</tr>
<tr>
<td>• How to change the CSS styles of HTML5 elements from JavaScript</td>
<td>HTML basics</td>
</tr>
<tr>
<td>• How to deal with HTML5 forms</td>
<td>M1 Computer Science students will have custom projects</td>
</tr>
<tr>
<td>• How to make basic graphics and animations using the HTML5 canvas</td>
<td>Up to 60 students</td>
</tr>
<tr>
<td>• How to use the basic concepts of ES2021, the last iteration of the language: arrays, functions, loops, basic objects</td>
<td></td>
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## SCHEDULE

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Session Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/10/2023</td>
<td>18h00-19h00</td>
<td>Online Zoom session</td>
</tr>
<tr>
<td>19/10/2023</td>
<td>18h00-19h00</td>
<td>Online Zoom session</td>
</tr>
<tr>
<td>26/10/2023</td>
<td>18h00-19h00</td>
<td>Online Zoom session</td>
</tr>
<tr>
<td>9/11/2023</td>
<td>18h00-19h00</td>
<td>Online Zoom session</td>
</tr>
<tr>
<td>16/11/2023</td>
<td>18h00-19h00</td>
<td>Online Zoom session</td>
</tr>
<tr>
<td>23/11/2023</td>
<td>18h00-19h00</td>
<td>Online Zoom session</td>
</tr>
<tr>
<td>30/11/2023</td>
<td>18h00-19h00</td>
<td>Online Zoom session</td>
</tr>
<tr>
<td>7/12/2023</td>
<td>18h00-19h00</td>
<td>Online Zoom session</td>
</tr>
</tbody>
</table>

- Continuous support by email and private chat.
- Computer Science Students (Master Informatique): due to a stronger Computer Science background, students from this master will have custom projects.

FREE CERTIFICATION W3C obtained (value 200 euros/dollars) if you succeed!
Artificial Intelligence: Introduction to Deep Learning

Coordinator: Michel RIVEILL

Machine Learning – Deep Learning
Same goal but for deep learning we use numerical neuron instead of the usual strategies (regression, nearest neighbour, decision tree, etc.).
COURSE OBJECTIVES

• Understand neural networks
• Learn how to build neural networks on various types of data: tabular data (csv files), images, text and time series.
• Adopt a methodology to ensure that the results obtained are relevant.
• Various labs to illustrate each topic
PREREQUISITES

• The principles of Machine Learning are supposed to be known
  • Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow, Aurélien Géron, septembre 2019, O’REILLY

• A minimum of programming experience in Python
  • Lab are in Python 3.0.
  • Python Data Science Handbook, Jake VanderPlas, 2017, O’REILLY (Part 1 to 4) – free pdf available on internet
  • Possible to make lab with Google Colab (no installation needed)

• All lectures are on SophiaTech Campus Lucioles
  • If necessary 2 groups for lab
  • Advanced in Python / others
SOME PROJECTS

- Document classification
- Time series forecasting
MINOR
Artificial Intelligence: Introduction to Deep Learning

Coordinator: Michel RIVEILL

SOME PROJECTS

• Object recognition

• Recommender systems
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Topic</th>
<th>Instructor</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/10/2023</td>
<td>9h00-12h30</td>
<td>Deep learning - General principles</td>
<td>Michel Riveill</td>
<td>Campus SophiaTech, Lucioles, room 352</td>
</tr>
<tr>
<td>19/10/2023</td>
<td>9h00-12h30</td>
<td>Multi-layers perceptron</td>
<td>Michel Riveill</td>
<td>Campus SophiaTech, Lucioles, room 352</td>
</tr>
<tr>
<td>26/10/2023</td>
<td>9h00-12h30</td>
<td>Auto-Encoder and Latent Representation</td>
<td>Michel Riveill</td>
<td>Campus SophiaTech, Lucioles, room 352</td>
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<tr>
<td>9/11/2023</td>
<td>9h00-12h30</td>
<td>Recurrent Neural Network for time series</td>
<td>Michel Riveill</td>
<td>Campus SophiaTech, Lucioles, room 352</td>
</tr>
<tr>
<td>16/11/2023</td>
<td>9h00-12h30</td>
<td>Convolutional Neural Network 1</td>
<td>Frédéric Precioso</td>
<td>Campus SophiaTech, Lucioles, room 352</td>
</tr>
<tr>
<td>23/11/2023</td>
<td>No lecture</td>
<td>SophiA Summit</td>
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<tr>
<td>30/11/2023</td>
<td>9h00-12h30</td>
<td>Convolutional Neural Network 2</td>
<td>Frédéric Precioso</td>
<td>Campus SophiaTech, Lucioles, room 352</td>
</tr>
<tr>
<td>07/12/2023</td>
<td>9h00-12h30</td>
<td>Object Detection</td>
<td>Frédéric Precioso</td>
<td>Campus SophiaTech, Lucioles, room 352</td>
</tr>
<tr>
<td>14/12/2023</td>
<td>9h00-12h30</td>
<td>Recomender Systems and Lab Presentation</td>
<td>Michel Riveill</td>
<td>Campus SophiaTech, Lucioles, room 352</td>
</tr>
</tbody>
</table>
Boost your quantum skills for practical applications
The Quantum buzz
(with a lot of money)

Global Quantum public efforts: $38.6b

Nobel prizes

Press and media

Private Investments in 2022: $2.2b
Why such an excitement?

Q.Techs: use quantum physics to perform tasks inaccessible to classical devices

Disruptive technologies
(societal and strategic impact, $106b market size in 2040)
A Quantum talent gap!

Chemists, mathematicians, computer scientists, electronic engineers, physicists, data analysis experts, lawyers,…

Q. Minors: Add your CV competences spendable in Q. market

- Learn Q. techno language and interest
- Understand operational Q. Technos
- Know Q. technos panorama (*research, industry...*)
WHAT YOU’LL LEARN

• How some main quantum technologies are implemented

• What classical technologies are needed to make them work

• Talk to people fabricating quantum components and experiments, visit their labs, see how it actually works!

CONTENTS

• Classical Enabling technologies
• Nanotechnologies for quantum devices
• State of the art of quantum circuits
• Basic physics of cold atoms
• Application of cold atoms and ions
• Quantum Metrology and sensors

PREREQUISITES

• Scientific bachelor, with some basic linear algebra
• English level: B1 (test your English)
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Topic</th>
<th>Speaker(s)</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/10/2023</td>
<td>9h00-12h00</td>
<td>1 - Enabling technologies</td>
<td>Fabrice Raineri</td>
<td>Campus Valrose, room to be defined</td>
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<tr>
<td>19/10/2023</td>
<td>9h00-12h00</td>
<td>2 - Nanotechnologies for quantum devices</td>
<td>Fabrice Raineri</td>
<td>Campus Valrose, room to be defined</td>
</tr>
<tr>
<td>26/10/2023</td>
<td>9h00-12h00</td>
<td>3 - State of the art of quantum circuits</td>
<td>Fabrice Raineri</td>
<td>Campus Valrose, room to be defined</td>
</tr>
<tr>
<td>9/11/2023</td>
<td>9h00-12h00</td>
<td>4 - Two-Photon Interference</td>
<td>Laurent Labonté</td>
<td>Campus Valrose, room to be defined</td>
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<td>16/11/2023</td>
<td>9h00-12h00</td>
<td>5 - Quantum Metrology</td>
<td>Laurent Labonté</td>
<td>Campus Valrose, room to be defined</td>
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<tr>
<td>23/11/2023</td>
<td>9h00-12h00</td>
<td>6 - Basic physics of cold atoms</td>
<td>William Guerin</td>
<td>Campus Valrose, room to be defined</td>
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<tr>
<td>30/11/2023</td>
<td>9h00-12h00</td>
<td>7 - Application of cold atoms and ions</td>
<td>William Guerin</td>
<td>Campus Valrose, room to be defined</td>
</tr>
<tr>
<td>7/12/2023</td>
<td>9h00-12h00</td>
<td>8 - Evaluation</td>
<td>Fabrice Raineri and Laurent Labonté</td>
<td>Campus Valrose, room to be defined</td>
</tr>
</tbody>
</table>
WHAT YOU’LL LEARN?

The objective of this module is to program a Cherokey robot in Arduino language to go from point A to point B, avoiding all obstacles in its path and being as fast as possible. It will have to cross the circuit first independently and then with a Bluetooth command.
Using an arduino BLE board: Bluetooth low energy, identical to the Arduino Uno board + bluetooth control

The language - based on C / C++
<table>
<thead>
<tr>
<th>Date</th>
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<th>Session Title</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/10/2023</td>
<td>9h00-12h00</td>
<td>Introduction/ Arduino Environment</td>
<td>Campus SophiaTech Templiers, room F201</td>
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<tr>
<td>19/10/2023</td>
<td>9h00-12h00</td>
<td>Concept of robot and first tests</td>
<td>Campus SophiaTech Templiers, room F201</td>
</tr>
<tr>
<td>26/10/2023</td>
<td>9h00-12h00</td>
<td>Mini-project - Tutorial</td>
<td>Campus SophiaTech Templiers, room F201</td>
</tr>
<tr>
<td>09/11/2023</td>
<td>9h00-12h00</td>
<td>Mini-project</td>
<td>Campus SophiaTech Templiers, room F201</td>
</tr>
<tr>
<td>16/11/2023</td>
<td>9h00-12h00</td>
<td>Mini-project</td>
<td>Campus SophiaTech Templiers, room F201</td>
</tr>
<tr>
<td>23/11/2023</td>
<td>9h00-12h00</td>
<td>Mini-project - Using Bluetooth</td>
<td>Campus SophiaTech Templiers, room F201</td>
</tr>
<tr>
<td>30/11/2023</td>
<td>9h00-12h00</td>
<td>Mini-project - Using of camera</td>
<td>Campus SophiaTech Templiers, room F201</td>
</tr>
<tr>
<td>07/12/2023</td>
<td>9h00-12h00</td>
<td>Evaluation : oral presentation</td>
<td>Campus SophiaTech Templiers, room F201</td>
</tr>
</tbody>
</table>
# DS4H minors / Fall 2023

## Technical
- Web Technologies / Javascript intro
- Artificial Intelligence: Intro to Deep Learning
- Quantum Engineering
- Sensor and Network devices

## Personal development
- Introduction to Scientific Research
- Organize your activity in project mode (Minor + Thematic School)
- Tools 2 Communicate (Thematic School)

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- Technological challenges in the IoT domain
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- Sociology of Creative Industries
- Innovation and Design Thinking
- Innovation and Creativity

---

https://ds4h.univ-cotedazur.eu/minors
Introduction to Scientific Research

Coordinator: Gilles BERNOT

WHAT YOU’LL LEARN?

• How to conduct research, and more generally how to approach a subject rationally

• Take a critical view on the literature available on the subject

• Provide your own reflections supported by experience and communicate them

• The hindsight that this course provides on what science is (or is not) should be part of the skills of any scientist, not only researchers.
## SCHEDULE

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Session Description</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/10/2023</td>
<td>9h00-12h15</td>
<td>Welcome, Course goals and outline, evaluation modalities</td>
<td>Campus SophiaTech Templiers, Building B, room B103</td>
</tr>
<tr>
<td></td>
<td>9h00-9h15</td>
<td>Gilles Bernot</td>
<td></td>
</tr>
<tr>
<td></td>
<td>9h15-10h45</td>
<td>Eric Picholle</td>
<td></td>
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<tr>
<td></td>
<td>11h00-12h15</td>
<td>Anne-Laure Simonelli</td>
<td></td>
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<tr>
<td>19/10/2023</td>
<td>9h00-12h15</td>
<td>Methods for conducting research - Bibliography 1</td>
<td>Campus SophiaTech Templiers, Building B, room B103</td>
</tr>
<tr>
<td></td>
<td>9h00-10h30</td>
<td>Hui-Yin Wu</td>
<td></td>
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<tr>
<td></td>
<td>10h45-12h15</td>
<td>Sid Touati</td>
<td></td>
</tr>
<tr>
<td>26/10/2023</td>
<td>9h00-12h15</td>
<td>Bibliographic analysis on a given list of articles</td>
<td>Campus SophiaTech Templiers, Building B, room B103</td>
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<tr>
<td></td>
<td>9h00-9h30</td>
<td>Gilles Bernot</td>
<td></td>
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<tr>
<td></td>
<td>9h45-12h15</td>
<td>Fabien Ferrero</td>
<td></td>
</tr>
<tr>
<td>09/11/2023</td>
<td>9h00-12h15</td>
<td>Experimentation workshop: Statistical aspects of experimentation</td>
<td>Campus SophiaTech Templiers, Building B, room B103</td>
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<tr>
<td>16/11/2023</td>
<td>9h00-12h15</td>
<td>Experimentation workshop: Human-Computer Interaction</td>
<td>Campus SophiaTech Templiers, Building B, room B103</td>
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<tr>
<td>23/11/2023</td>
<td>9h00-12h15</td>
<td>Digital Deontology</td>
<td>Campus SophiaTech Templiers, Building B, room B103</td>
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<tr>
<td></td>
<td>9h00-10h30</td>
<td>Nadia Abchiche</td>
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<tr>
<td></td>
<td>10h45-12h15</td>
<td>Gilles Bernot</td>
<td></td>
</tr>
<tr>
<td>30/11/2023</td>
<td>9h00-12h15</td>
<td>Scientific collaborations</td>
<td>Campus SophiaTech Templiers, Building B, room B103</td>
</tr>
<tr>
<td></td>
<td>9h00-10h30</td>
<td>Fabien Ferrero</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10h45-12h15</td>
<td>Anne-Laure Simonelli</td>
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<tr>
<td>07/12/2023</td>
<td>8h00-12h20</td>
<td>Jury</td>
<td>Campus SophiaTech Templiers, Building B, room B103</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Evaluation</td>
<td></td>
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</table>
Organize Your Activity in Project Mode

Coordinator: Emmanuel LE ROY

Watch the video
Organize Your Activity in Project Mode

Coordinator: Emmanuel LE ROY

WHAT YOU’LL LEARN?

• How to formalize an idea in a project and make a first assessment about its feasibility.
• How to define the initial scope of your project with the budget and the time needed to make it happen.
• How to identify risks and how to manage them.
• How to control the quality along your project.
• How to manage people and monitor cost, time and scope along your project.
• Why communication is essential to the success of a project and how to do it properly.
• How to close your project properly while collecting information to make your next project even more successful.

CONTENTS

• Introduction to project management
• The golden triangle of project management
• Managing costs and schedules
• Managing communication
• Managing budget
• Managing risks and quality
• Managing uncertainty with agility
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Session Title</th>
<th>Venue</th>
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<tr>
<td>12/10/2023</td>
<td>9h00-12h00</td>
<td>Introduction to project management</td>
<td>Campus SophiaTech, Lucioles, room TD09</td>
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<tr>
<td>12/10/2023</td>
<td>17h30-20h30</td>
<td>Project life cycle and golden triangle of project</td>
<td>Online</td>
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<td>management</td>
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<tr>
<td>19/10/2023</td>
<td>17h30-20h30</td>
<td>Managing schedule and making a realistic plan</td>
<td>Online</td>
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<tr>
<td>26/10/2023</td>
<td>17h30-20h30</td>
<td>Managing risks and quality</td>
<td>Online</td>
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<tr>
<td>16/11/2023</td>
<td>9h00-12h00</td>
<td>How to manage a project with Scrum methodology</td>
<td>Campus SophiaTech, Lucioles, room TD09</td>
</tr>
<tr>
<td>16/11/2023</td>
<td>17h30-20h30</td>
<td>Managing the budget of your project</td>
<td>Online</td>
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<tr>
<td>30/11/2023</td>
<td>17h30-20h30</td>
<td>Managing communication</td>
<td>Online</td>
</tr>
<tr>
<td>07/12/2023</td>
<td>9h00-12h00</td>
<td>Conclusion on project management - Final exam</td>
<td>Campus SophiaTech, Lucioles, room TD09</td>
</tr>
</tbody>
</table>
WHAT YOU’LL LEARN?

- How to communicate specifically to enter the work force (through CV, cover letter, LinkedIn, job interview, job search strategy).
- How to communicate effectively to a wider audience (through short video production, oral communication).
## THEMATIC SCHOOL SCHEDULE

### Dec 18 > Dec 21

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Topic</th>
<th>Instructor</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>18/12/2023</td>
<td>9h30-12h00</td>
<td>How to write / to improve my CV</td>
<td>Frédéric Arnault</td>
<td>SophiaTech, Lucioles, room TD07</td>
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<tr>
<td></td>
<td>13h30-16h30</td>
<td>Video Creation</td>
<td>Nicolas Fogliarini</td>
<td>SophiaTech, Lucioles, room TD07</td>
</tr>
<tr>
<td>19/12/2023</td>
<td>9h30-12h00</td>
<td>How to set up and edit my LinkedIn profile + Personal branding: professional photo shoot offered at the end of the session</td>
<td>Frédéric Arnault Photo: Aurélie Macarri</td>
<td>SophiaTech, Lucioles, room TD07</td>
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<tr>
<td></td>
<td>14h00-17h30</td>
<td>Oral Communication</td>
<td>Anne-Laure Simonelli</td>
<td>SophiaTech, Lucioles, room TD07</td>
</tr>
<tr>
<td>20/12/2023</td>
<td>9h30-13h00</td>
<td>How to write a cover letter/email</td>
<td>Frédéric Arnault</td>
<td>SophiaTech, Lucioles, room TD07</td>
</tr>
<tr>
<td></td>
<td>14h00-17h00</td>
<td>Video Creation</td>
<td>Nicolas Fogliarini</td>
<td>SophiaTech, Lucioles, room TD07</td>
</tr>
<tr>
<td>21/12/2023</td>
<td>9h30-13h00</td>
<td>Internships/Apprenticeship/job search strategies (spontaneous application, jobboards, cooptation/networking, being hunt) How to prepare a job interview</td>
<td>Frédéric Arnault</td>
<td>SophiaTech, Lucioles, room TD07</td>
</tr>
<tr>
<td></td>
<td>14h00-16h30</td>
<td>The IT job market</td>
<td>Emmanuelle Tristant</td>
<td>SophiaTech, Lucioles, room TD07</td>
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<tr>
<td></td>
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<td>The Electronic job market</td>
<td>Matthias Raucoules-Aimé</td>
<td>SophiaTech, Lucioles, room TD10</td>
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<td></td>
<td>The Law job market</td>
<td>Vincent de Bonnafos</td>
<td>online</td>
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<td></td>
<td></td>
<td>The Digital Strategy job market</td>
<td>To be confirmed</td>
<td>SophiaTech, Lucioles, room to be confirmed</td>
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</tbody>
</table>
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• Sociology of Creative Industries
• Innovation and Design Thinking
• Innovation and Creativity

https://ds4h.univ-cotedazur.eu/minors
MINOR

Technological Challenges in the IoT Domain

Coordinator: Yves ROUDIER

WHAT YOU’LL LEARN?

- Technical understanding about the issues underlying the lifecycle of Internet of Things systems
- Basic knowledge and hands-on experience about technical solutions for the design, development, and operations of Internet of Things systems

CONTENTS

Both technical and societal viewpoints:
- Distributed infrastructures for connected objects
- Environmental issues in IoT
- Introduction to data valorization
- Security and privacy for IoT

FORMAT

Hybrid

LOCATION

Campus SophiaTech, Lucioles and online, depending on the session (see schedule)

PREREQUISITES

No

CAPACITY

20 students
MINOR

Technological Challenges in the IoT Domain

Coordinator: Yves ROUDIER
Technological Challenges in the IoT Domain

Coordinator: Yves ROUDIER

THE INTERNET OF THINGS
AN EXPLOSION OF CONNECTED POSSIBILITY
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Topic</th>
<th>Instructor</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/10/2023</td>
<td>9h00-12h00</td>
<td>Security and privacy for IoT</td>
<td>Yves Roudier</td>
<td>Campus SophiaTech, Lucioles, room TD06</td>
</tr>
<tr>
<td>19/10/2023</td>
<td>9h00-12h00</td>
<td>Security and privacy for IoT</td>
<td>Yves Roudier</td>
<td>Campus SophiaTech, Lucioles, room TD06</td>
</tr>
<tr>
<td>26/10/2023</td>
<td>9h00-11h45</td>
<td>Project</td>
<td>Yves Roudier</td>
<td>Campus SophiaTech, Lucioles, room TD06</td>
</tr>
<tr>
<td>09/11/2023</td>
<td>9h00-12h00</td>
<td>Distributed infrastructure for connected objects</td>
<td>Jean-Yves Tigli</td>
<td>Campus SophiaTech, Lucioles, room TD06</td>
</tr>
<tr>
<td>16/11/2023</td>
<td>9h00-12h00</td>
<td>Distributed infrastructure for connected objects</td>
<td>Jean-Yves Tigli</td>
<td>Campus SophiaTech, Lucioles, room TD06</td>
</tr>
<tr>
<td>23/11/2023</td>
<td>9h00-11h45</td>
<td>Project</td>
<td>Jean-Yves Tigli</td>
<td>Campus SophiaTech, Lucioles, room TD06</td>
</tr>
<tr>
<td>30/11/2023</td>
<td>9h00-12h00</td>
<td>Introduction to data valorization</td>
<td>Guilhem Molines</td>
<td>Online</td>
</tr>
<tr>
<td>07/12/2023</td>
<td>9h00-12h00</td>
<td>Introduction to data valorization</td>
<td>Guilhem Molines</td>
<td>Online</td>
</tr>
</tbody>
</table>
THE ORIGIN

- Environment will become a key issue in every economic sector.
- Information and Communication Technologie, ICT, as any economic sector, has to take part to this global effort.
- Hence the question:

Is ICT a cure or a curse for environment?
OUR OBJECTIVES

• Assess the carbon footprint of ICT and the Internet (based on state-of-the-art scientific studies)

• Provide a holistic view of ICT: from mineral to e-waste (life cycle analysis)

• Discuss the basics of eco-friendly software design and green algorithms

• Beyond the pure technical perspectives: law and digital world
## SCHEDULE

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/10/2023</td>
<td>9h00-12h00</td>
<td>The Anthropocentric age</td>
<td>Luc Deneire</td>
<td>Campus SophiaTech Templiers, Building B, room B203</td>
</tr>
<tr>
<td>19/10/2023</td>
<td>9h00-12h00</td>
<td>Background on Energy and ICT</td>
<td>Abbas Bradai</td>
<td>Campus SophiaTech Templiers, Building B, room B203</td>
</tr>
<tr>
<td>26/10/2023</td>
<td>9h00-12h00</td>
<td>Measuring ICT and Internet Footprint – Hands-on session</td>
<td>Abbas Bradai</td>
<td>Campus SophiaTech Templiers, Building B, room B203</td>
</tr>
<tr>
<td>09/11/2023</td>
<td>9h00-12h00</td>
<td>Measuring ICT and Internet Footprint</td>
<td>Abbas Bradai</td>
<td>Campus SophiaTech Templiers, Building B, room B203</td>
</tr>
<tr>
<td>16/11/2023</td>
<td>9h00-12h00</td>
<td>Green Algorithm Design</td>
<td>Frédéric Giroire</td>
<td>Campus SophiaTech Templiers, Building B, room B203</td>
</tr>
<tr>
<td>23/11/2023</td>
<td>9h00-12h00</td>
<td>Eco-friendly software design – Hands-on session</td>
<td>Dino Martin Lopez-Pacheco</td>
<td>Campus SophiaTech Templiers, Building B, room B203</td>
</tr>
<tr>
<td>30/11/2023</td>
<td>9h00-12h00</td>
<td>Law, Environment and Digital world</td>
<td>Mélanie Olivari</td>
<td>Campus SophiaTech Templiers, Building B, room B207</td>
</tr>
<tr>
<td>07/12/2023</td>
<td>9h00-12h00</td>
<td>Oral presentations of personal projects</td>
<td>Luc Deneire and Abbas Bradai</td>
<td>Campus SophiaTech Templiers, Building B, room B203</td>
</tr>
</tbody>
</table>
Anthropology and Ethics of Technics

Coordinator: Valentina TIRLONI

Watch the video
WHAT YOU’LL LEARN?

• This minor is designed to develop critical thinking on technological issues and to explore topics such as new sociability, transhumanism, and the ethical implications of technology.

• We will examine the impact of technology on human life, including the potential negative consequences and the loss of certain values.

• The course will be divided into four parts: Anthropological inquiry on Technics, Transhumanism, Philosophical inquiry on Technics, and an ethical approach to Technics.
## SCHEDULE

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Session Title</th>
<th>Platform</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/10/2023</td>
<td>18h00-19h00</td>
<td>Introduction</td>
<td>online synchronous</td>
</tr>
<tr>
<td>19/10/2023</td>
<td>18h00-19h00</td>
<td>Anthropological inquiry on Technics</td>
<td>on Moodle</td>
</tr>
<tr>
<td>26/10/2023</td>
<td>18h00-19h00</td>
<td>New sociability</td>
<td>on Moodle</td>
</tr>
<tr>
<td>09/11/2023</td>
<td>18h00-19h00</td>
<td>Transhumanism</td>
<td>on Moodle</td>
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<tr>
<td>16/11/2023</td>
<td>18h00-19h00</td>
<td>Philosophical inquiry on Technics</td>
<td>online synchronous</td>
</tr>
<tr>
<td>23/11/2023</td>
<td>18h00-19h00</td>
<td>Ethical Issues on Technics</td>
<td>on Moodle</td>
</tr>
<tr>
<td>30/11/2023</td>
<td>18h00-19h00</td>
<td>Politics and Technics: e-democracy</td>
<td>online synchronous</td>
</tr>
<tr>
<td>07/12/2023</td>
<td>18h00-19h00</td>
<td>Conclusions</td>
<td>on Moodle</td>
</tr>
</tbody>
</table>
WHAT YOU’LL LEARN?

• Acquire essential knowledge about the legal, economic, and managerial issues induced by digital markets and the algorithms-driven economy.

• Master fundamental notions of data protection law, consumer law, and competition law applied.

• Discover basic notions necessary to understand and appropriate economic science and management sciences concepts, models, and insights to analyze the incentives of market players and the dynamics of digital markets.

CONTENTS

• Competition law applied to digital markets

• Coordinated algorithmic anticompetitive practices (collusions and mergers control)

• Consumer protection and digital manipulations
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Topic</th>
<th>Lecturer</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/10/2023</td>
<td>8h00-12h00</td>
<td>Digital Markets and coordinated practices</td>
<td>Frédéric Marty</td>
<td>Campus Trotabas, room 404</td>
</tr>
<tr>
<td>19/10/2023</td>
<td>8h00-12h00</td>
<td>Consumer protection and digital manipulations</td>
<td>Jeanne Mouton</td>
<td>Campus Trotabas, room 404</td>
</tr>
<tr>
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<td>8h00-12h00</td>
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<td>Competition Law and Digital Markets</td>
<td>Nathalie Nielson</td>
<td>Campus Trotabas, room 404</td>
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</table>
DS4H minors / Fall 2023

**Technical**
- Web Technologies / Javascript intro
- Artificial Intelligence: Intro to Deep Learning
- Quantum Engineering
- Sensor and Network devices

**Personal Development**
- Introduction to Scientific Research
- Organize your activity in project mode (Minor + Thematic School)
- Tools 2 Communicate (Thematic School)

**Digital Culture**
- Technological challenges in the IoT domain
- ICT and Environment
- Anthropology and Ethics of Technics
- Digital IP and Law

**Business**
- Digital Strategy
- Website creation Workshop

**Innovation and Creativity**
- Sociology of Creative Industries
- Innovation and Design Thinking
- Innovation and Creativity

https://ds4h.univ-cotedazur.eu/minors
Digital transformation is trendy ... but what is it and what is it for?

- SAP’s clients move to the cloud and redesign their internal organizational processes.
- Burberry invest millions in its CRM and develop a 360 client strategy.
- Michelin changes its economic model and redefines its business model and its strategy.

Our playground : Digital transformation’s success and failure projects

WHAT YOU’LL LEARN?

- Identify what degree (maturity) of digital transformation a project could have?
- Acquire the fundamentals in project management through the analysis of real case-studies
- Develop a critical perspective on digital transformation
- Convince an audience while presenting a project
## SCHEDULE

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/10/2023</td>
<td>9h00-12h00</td>
<td>Digital Strategy</td>
<td>Campus Saint Jean d'Angély, room 211</td>
</tr>
<tr>
<td>19/10/2023</td>
<td>9h00-12h00</td>
<td>Digital Strategy</td>
<td>Campus Saint Jean d'Angély, room 211</td>
</tr>
<tr>
<td>26/10/2023</td>
<td>9h00-12h00</td>
<td>Digital Strategy</td>
<td>Campus Saint Jean d'Angély, room 211</td>
</tr>
<tr>
<td>09/11/2023</td>
<td>9h00-12h00</td>
<td>Digital Strategy</td>
<td>Campus Saint Jean d'Angély, room 211</td>
</tr>
<tr>
<td>16/11/2023</td>
<td>9h00-12h00</td>
<td>Digital Strategy</td>
<td>Campus Saint Jean d'Angély, room 211</td>
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<td>Digital Strategy</td>
<td>Campus Saint Jean d'Angély, room 211</td>
</tr>
<tr>
<td>07/12/2023</td>
<td>9h00-12h00</td>
<td>Evaluation</td>
<td>Campus Saint Jean d'Angély, room 211</td>
</tr>
</tbody>
</table>
WHAT YOU’LL LEARN?

• How to showcase the best of your work, skills through various medias: websites, online portfolios, blogs, social networks.

• How to create assets (posts, photos, videos, graphics, podcasts...) using free tools and your smartphone and computer.

• Work on your online presence and learn how to avoid pitfalls.

• How to collaborate effectively online using video conference.
<table>
<thead>
<tr>
<th>Date</th>
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<th>Session</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/10/2023</td>
<td>9h00-13h00</td>
<td>Introduction on various online portfolio’s platforms</td>
<td>Campus Valrose, Petit Valrose, room PV111</td>
</tr>
<tr>
<td></td>
<td>18h00-19h00</td>
<td>Focus on Google My Business</td>
<td>Online live tutorial session</td>
</tr>
<tr>
<td>19/10/2023</td>
<td>9h00-13h00</td>
<td>Preparation work and wordpress intro</td>
<td>Campus Valrose, Petit Valrose, room PV111</td>
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<tr>
<td></td>
<td>18h00-19h00</td>
<td>A website that converts</td>
<td>Online live tutorial session</td>
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<tr>
<td>09/11/2023</td>
<td>9h00-13h00</td>
<td>Creating content</td>
<td>Campus Valrose, Petit Valrose, room PV111</td>
</tr>
<tr>
<td></td>
<td>18h00-19h00</td>
<td>Focus on right clearance</td>
<td>Online live tutorial session</td>
</tr>
<tr>
<td>16/11/2023</td>
<td>9h00-13h00</td>
<td>Working with themes and plugins, uploading, security...</td>
<td>Campus Valrose, Petit Valrose, room PV111</td>
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<tr>
<td></td>
<td>18h00-19h00</td>
<td>Focus on SEO</td>
<td>Online live tutorial session</td>
</tr>
<tr>
<td>23/11/2023</td>
<td>9h00-13h00</td>
<td>Working on your own online portfolio last details + Exam</td>
<td>Campus Valrose, Petit Valrose, room PV111</td>
</tr>
</tbody>
</table>
DS4H minors / Fall 2023

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- Web Technologies / Javascript intro
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[https://ds4h.univ-cotedazur.eu/minors](https://ds4h.univ-cotedazur.eu/minors)
Sociology of Creative Industries

Coordinator: Manuel BOUTET
WHAT YOU’LL LEARN?

• Understanding the place of technics in society
• Learning the history of modern industry
• Identify the major tensions and contradictions within the creative industries to better understand debates and polemics
• Thinking differently the relation between creativity and organizations
• Acquire some keys to understand the relationship between creativity and careers today
• Conceptual and methodological tools to go further in investigating

CONTENTS

• Technics as culture
• Industrialization & the City
• From communication to media
• Cultural Industry and Mass Culture
• The rise of the communities
• The fall of communities?
• Platformisation and Community (micro-)management
• Creative professions vs. Creativity as team management
• What about ChatGPT?
<table>
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<tr>
<th>Date</th>
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<th>Topic</th>
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</tr>
</thead>
<tbody>
<tr>
<td>12/10/2023</td>
<td>9h00-12h00</td>
<td>Technics as culture</td>
<td>Campus SophiaTech Templiers, room A234</td>
</tr>
<tr>
<td>19/10/2023</td>
<td>9h00-12h00</td>
<td>Industrialization &amp; the City</td>
<td>Campus SophiaTech Templiers, room A234</td>
</tr>
<tr>
<td>26/10/2023</td>
<td>9h00-12h00</td>
<td>From communication to media (and back)</td>
<td>Campus SophiaTech Templiers, room A234</td>
</tr>
<tr>
<td>09/11/2023</td>
<td>9h00-12h00</td>
<td>Cultural Industry and Mass Culture</td>
<td>Campus SophiaTech Templiers, room A234</td>
</tr>
<tr>
<td>16/11/2023</td>
<td>9h00-12h00</td>
<td>The rise of communities, a little history of a post-modern cultural phenomenon</td>
<td>Online (see Moodle for the Zoom link)</td>
</tr>
<tr>
<td>23/11/2023</td>
<td>9h00-12h00</td>
<td>The fall of communities ? Platformisation and Community (micro-)management</td>
<td>Campus SophiaTech Templiers, room A234</td>
</tr>
<tr>
<td>30/11/2023</td>
<td>9h00-12h00</td>
<td>Creative professions vs. Creativity as team management</td>
<td>Campus SophiaTech Templiers, room A234</td>
</tr>
<tr>
<td>07/12/2023</td>
<td>9h00-12h00</td>
<td>What about ChatGPT?</td>
<td>Campus SophiaTech Templiers, room A234</td>
</tr>
</tbody>
</table>
Innovation and Design Thinking

Coordinator: Nicolas BRUNO

CONTENTS

This minor aims to train students in innovation, creativity and 21st century skills, while proposing solutions to the challenges faced by businesses and other organizations.

It’s made up of several independent workshops, each of which teaches one skill. As part of your minor, you must choose 3 workshops from the following list.

/!/\ Each workshop is assessed.

COORDINATOR
Nicolas BRUNO

FORMAT
Classroom (workshops)

LOCATION
Espace Vernassa, Campus Saint-Jean d'Angély, Nice

PREREQUISITES
No

CAPACITY
Variable according to the workshops
Innovation and Design Thinking

MINOR Design Thinking

Design Thinking is an innovation process based on the notion that, in order to innovate, it’s necessary to connect with people, to understand the real needs of the user and to explore the whole context of the project with a constant attitude of research.

Entrepreneurship

The Entrepreneurship workshop invites you to discover the essential concepts of entrepreneurship, including the description of an entrepreneurial process, the profile of the entrepreneur and the role of business creation in society. You will also explore the mindset and methods of entrepreneurship, which will help you to identify interesting opportunities and develop innovative activities.

Ai For Business

Ai For Business introduces the theme of artificial intelligence, focusing on three main areas: robotics, machine learning and natural language processing. An economic and management perspective is adopted to learn how to master this innovative technology and understand how it will shape our future!

Actions for Sustainability

Actions for Sustainability involves students in a responsible approach. It gives students the tools to understand their impact on society and the environment and provides them with the keys to more responsible entrepreneurship.

Coordinator: Nicolas BRUNO
# SCHEDULE

Choose 3 workshops out of 4

<table>
<thead>
<tr>
<th>Date</th>
<th>Time slot</th>
<th>Workshops</th>
<th>Lecturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/10/2023</td>
<td>9h00-13h00</td>
<td>Design Thinking</td>
<td>Eric Guerci</td>
</tr>
<tr>
<td>19/10/2023</td>
<td>9h00-13h00</td>
<td>Design Thinking</td>
<td>Eric Guerci</td>
</tr>
<tr>
<td>26/10/2023</td>
<td>9h00-12h00</td>
<td>Actions for Sustainability</td>
<td>Lena Felderhoff</td>
</tr>
<tr>
<td>09/11/2023</td>
<td>9h00-12h00</td>
<td>Actions for Sustainability</td>
<td>Lena Felderhoff</td>
</tr>
<tr>
<td>16/11/2023</td>
<td>9h00-13h00</td>
<td>AI for Business</td>
<td>Eric Guerci</td>
</tr>
<tr>
<td>23/11/2023</td>
<td>9h00-13h00</td>
<td>AI for Business</td>
<td>Eric Guerci</td>
</tr>
<tr>
<td>30/11/2023</td>
<td>9h00-13h00</td>
<td>Entrepreneurship</td>
<td>Olga Pabion</td>
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<tr>
<td>07/12/2023</td>
<td>9h00-13h00</td>
<td>Entrepreneurship</td>
<td>Olga Pabion</td>
</tr>
<tr>
<td>14/12/2023</td>
<td>9h00-11h00</td>
<td>Actions for Sustainability</td>
<td>Lena Felderhoff</td>
</tr>
</tbody>
</table>

Coordinator: Nicolas BRUNO
Let’s stay in touch!

Instagram ICE_UCA
https://www.instagram.com/ice_uca/

Linkedin
https://www.linkedin.com/company/innovation-centre-for-entrepreneurship/

Website
https://ice.univ-cotedazur.fr
WHAT YOU’LL LEARN?

- Explore the existing creativity literature (multidisciplinary). Take the discovery and delivery test and reflect on your own level of creativity. Discussion about the link between creativity and innovation.

- Start a self-reflection on how to enhance your creative abilities.

- Learn how visualization as a cognitive process, can help you generate better ideas. Create a sketch and learn how to accurately describe a creative project.

- Learn how collaboration can help you generate more qualitative ideas.

- Introduction to the practical implications of creativity, such as how to effectively pitch your creative ideas to others.
## MINOR

### Innovation and Creativity

Coordinator: Cindy DE SMET

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### SCHEDULE

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Course title</th>
<th>Format/Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/10/2023</td>
<td>18h30-20h00</td>
<td><strong>Tutoring session 1</strong></td>
<td>Online</td>
</tr>
<tr>
<td>16/11/2023</td>
<td>18h30-20h00</td>
<td><strong>Tutoring session 2</strong></td>
<td>Online</td>
</tr>
<tr>
<td>07/12/2023</td>
<td>18h30-20h00</td>
<td>Optional: Live recording self-reflection task. Possibility for task-related advice</td>
<td>Online, on appointment</td>
</tr>
</tbody>
</table>
Since September 2019, more than 150 students passed this course as a DS4H minor.

"I thank you for all your efforts and I am really happy to have passed this minor. It is not only a minor but also instructive because of the personal development included in the articles. I read Chris Lewis' book thanks to you."

"This course has given me a lot of good things. All the knowledge you shared with us is really necessary and useful. It helps me a lot, not only for work but also for everyday life, in my "creative" life."

Note: anonymised comments
Any questions?

Get in touch with the minor’s coordinator!

https://ds4h.univ-cotedazur.eu/minors
Q&A with minor and thematic school responsibles (> 14h50)
14h50-15h00

DS4H Registration Procedures

Virginie Valot
Pedagogical Coordinator – EUR DS4H (multi-campus)
Office at the Sophiatech campus (Lucioles)
virginie.valot@univ-cotedazur.fr
04 89 15 42 38
### Registration for the multidisciplinary options offer: how does it work?

<table>
<thead>
<tr>
<th>PROJECTS</th>
<th>MINORS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STEP 1 WISHES</strong></td>
<td>until September 18(^{th}) (23h00): 1st come, 1st served! Masters students → wishes mandatory on EREBE platform PhD candidates → wishes mandatory on ADUM platform</td>
</tr>
<tr>
<td></td>
<td>1 wish</td>
</tr>
<tr>
<td><strong>STEP 2 ASSIGNMENT</strong></td>
<td>The pedagogical team selects and assigns you to your project/minor. You’ll received a mail from Anne-Laure Simonelli confirming which minor you will follow: starting October 12(^{th}) For tutorships, it is mandatory to make a tutorship agreement. To be sure to start your tutorship: respect the deadline &amp; the required documents that I’ll ask you by email. The minor coordinator will get in touch with you for more details (schedule...).</td>
</tr>
<tr>
<td><strong>STEP 3 PEDAGOGICAL REGISTRATION</strong></td>
<td>Registration mandatory through IPWEB (online/ENT): to confirm the project/minor you’ve been assigned to Around weeks 43/44 You will received a detailed email from me (on your email student account): respect the deadlines!</td>
</tr>
</tbody>
</table>

No PR = no grades = adjourned!
Pedagogical Registration, what’s this?

- Master’s students are concerned (registration for training courses throughout the year for PhD students)
- Mandatory
- Complementary to your "Inscription Administrative" (IA)/"Administrative Registration" (AR)
- Complementary to your wishes on the EREBE platform
- Biannual
- corresponds to the choice of options or specialization courses:

  Your EUR’s disciplinary options + EUR DS4H multidisciplinary options

  DS4H minor/thematic school and projects (tutorship, group projects, etc.)

  ➔ more details in the next slide

- online via your “Espace Numérique de Travail” (ENT)/Digital Workspace ➔ IP WEB

⚠ You will not be able to obtain your grades or validate your diploma without completed pedagogical registrations!
To make your “Pedagogical Registration”:

1. Log on to your ENT
2. Go to "My Info", then "Registrations".
3. Choose "Register for the current semester".
4. Once you are in your "On-line Pedagogical Registration" and have verified your personal information, choose your options for the coming semester.
   - Students from the SophiaTech and Valrose campuses (EEA, Computer Sciences, MIAGE) have to select precisely which DS4H option they follow (name of minors/thematic school, type of project)
   - Other students from Saint J.A., G. Melies, Carlone, Trotabas campuses have just to select - if necessary = if a DS4H minor/thematic school or project is followed - according to the modalities communicated by your Student Affairs department: “Choice of DS4H minor/Thematic school" or/and “Choice of DS4H project"
   - The details of the minor/thematic school and/or project you are following will then be indicated by me (around week 43).

5. Don't forget to validate your choices at the end of the procedure.
6. Please download and keep a copy of your teaching contract.

⚠️ You will not be able to obtain your grades or validate your diploma without completed pedagogical registrations!
07/09/2023: DS4H Kickoff (part 1)

14/09/2023
DS4H Kick Off (part 2) + start DS4H multidisciplinary options wishes on EREBE/ADUM

18/09/2023
Deadline for DS4H multidisciplinary options wishes on EREBE/ADUM

If required: send me all documents I need to prepare quickly your tutorship agreement

12/10/2023
First minor course

13/10/2023
First day of your tutorship in laboratory with your signed tutorship agreement
Tutorships

- No tutorship can be conducted without an Agreement or with an incomplete Agreement (missing pieces and/or signatures), otherwise you will be ADJOURNED!

- You have at your disposal a guide on the DS4H website: DS4H tutorships and projects 2023-2024. Please consult it!

However, I remain at your disposal for any questions: ds4h-pedagogie@univ-cotedazur.fr

You also have at your disposal via your ENT account a GLPI Student Affairs department assistance platform: http://glpi-form-sco.univ-cotedazur.fr/
Thanks and talk soon!
NOW it is up to you!

Minor and Project choices from Sept 14th to Sept 18th (23h00)

https://ds4h.univ-cotedazur.eu/wishes

MASTER STUDENTS
Make your choice of Minors and Thematic School (in order of preference) and Project via EREBE
https://ds4h.univ-cotedazur.eu/erebe

DOCTORAL CANDIDATES
Make your choice of Minors, Thematic School and Training via ADUM
https://www.adum.fr/UCA/formations

CAUTION! First come, first served!
Don't miss any emails from the University!

SET UP AN AUTOMATIC TRANSFER from your @etu.univ-codazur.fr account to your favorite one!

1. Go to your « ENT », section « Ma messagerie »
2. Click on the gear ⚙ at the top right of the page
3. Click on « Paramètres de mes applications > Courrier »
4. Click on « Comptes > Transfert »
5. Type in the e-mail address of your choice, tick the box « Conserver une copie » and click on « Enregistrer »

Check your mailbox!
What to do? When? How?

**Master Students**

- Choose your project (1 wish)
- Choose your minor/thematic school (3 wishes in order of preference)
- Wait for your assignments (1st week of October)
- Make your pedagogical registrations

**PhD Candidates**

- Choose your minor / thematic school
- Register for SST
- Contact the MED for pedagogical registrations

CAUTION! minors’ / thematic school’ schedules must be compatible with your own major’s schedule + some required prerequisites!
It’s of your responsibility!
You will be enrolled according to available places.

According to available places you’ll be enrolled to your first, second or third choice!  
**First come, first served!**

**ONE LINK:**
https://ds4h.univ-cotedazur.eu/wishes

before Sept. 18, 23h00
Now it’s up to you!

https://ds4h.univ-cotedazur.eu/wishes

Any question? We can help! ds4h-pedagogie@univ-cotedazur.fr