

UNIVERSITÉ
CÔTE D'AZUR

ÉCOLE UNIVERSITAIRE DE RECHERCHE
SYSTÈMES NUMÉRIQUES
POUR L'HUMAIN

Masters Informatique · MIAGE · Electronique · Stratégie Digitale · Droit du numérique
Doctorants dans le domaine du numérique



14

SEPTEMBRE

Présentation des
mineures et projets

Bienvenue !



ds4h.univ-cotedazur.fr



2023/2024 Fall Semester Minors & Projects



A fully modular education program

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



Your Master Curriculum

**Mandatory
Disciplinary
Courses**



**Disciplinary
Options**



Optional Courses

**DS4H multidisciplinary
options**

**Minors /
Thematic
schools**

Projects

Your PhD Curriculum

Thesis



« heures de formation »

**DS4H multidisciplinary
options**

**Minors /
Thematic
schools**

**Students'
Supervision
Training**



Who is concerned?

Curriculum	Initial Training		Apprenticeship	
	Minors	Projects	Minors	Projects
M1 Informatique	possible	mandatory	no	no
M2 informatique, <u>except Ubinet</u>	possible	no	no	no
M2 informatique, Ubinet	possible	no	no	no
M1 MIAGE	no	no	no	no
M2 MIAGE INTENSE	mandatory	no	no	no
M2 MIAGE SIRIS	mandatory	no	no	no
M2 MIAGE MBDS	mandatory	no	no	no
M2 MIAGE IA2	mandatory (minor or project)	no	no	no
M1 Electronique	possible	possible	no	no
M2 Electronique	possible	possible	no	no
M1 Stratégie Digitale	possible	possible	possible	possible
M2 Stratégie Digitale	possible	possible	possible	possible
M1 Droit des affaires	possible	possible	-	-
M2 Droit de la propriété intellectuelle et des nouvelles technologies	mandatory	possible	possible	no
M1 EiT Digital	no	no	no	no
M2 EiT Digital	possible	no	no	no
M1 HIC MAJIC	possible	no	-	-
M2 HIC MAJIC	possible	no	-	-
M1 HIC MAPIC	no	no	no	no
M2 HIC MAPIC	no	no	no	no
M1 Ergonomie ECTN	mandatory	no	mandatory	no
M1 LTITPC	possible	no	no	no
M2 LTITPC	possible	no	no	no
M1 LEA LAI RFI	no	no	no	no
M2 LEA TRE	mandatory	possible	mandatory (minor or project)	no
ED DESPEG	possible	possible as a supervisor	-	-
ED SHAL	possible	possible as a supervisor	-	-
ED STIC	possible	possible as a supervisor	-	-



[Copier le lien de participation](#)



- 1 Allez sur wooclap.com
- 2 Entrez le code d'événement dans le bandeau supérieur

Code d'événement
FCJIIG



- 1 Envoyez [@FCJIIG](#) au 06 44 60 96 62
- 2 Vous pouvez participer



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

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>

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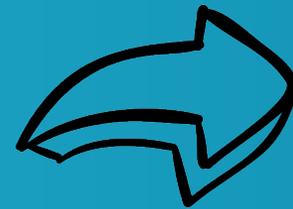


Initiative d'Excellence



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?

MINORS
Tutorships
PROJECTS

WISHES

DS4H option wishes selection platform

<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!

DS4H OPTIONS	MINORS	PROJECTS
	What is a DS4H minor and how does it work?	What is a DS4H project and how does it work?
YOU'RE A MASTER STUDENT	Syllabuses, schedules, evaluation modalities: Discover the minors open in the Fall 2023 semester	Discover the research projects open in Fall 2023 semester: <ul style="list-style-type: none">• Tutorships• Multidisciplinary Research Projects Discover HIC Creativity projects open in Fall 2023 semester
YOU'RE A PhD CANDIDATE	Syllabuses, schedules, evaluation modalities: Discover the minors open in the Fall 2023 semester	You can take part in DS4H projects as a supervisor: <ul style="list-style-type: none">• Submit a project and supervise a Master Student• Take a Student's Supervision Training



DS4H Research Projects



[See the open projects this semester](#)

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

Make sure you're on the right semester!

Type of research project

2023 - 2024 | 1st semester

Tutorship in <Any domain> or <Any domain> or <Any domain>

- <Any type>
- Tutorship
- Multidisciplinary project

Domain

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

Subject



Example of tutorships

- **Evolutionary Multimodal Optimization**
- **Cellular Evolutionary Algorithms**

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



Watch
the
video



DS4H Research Projects



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!

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

Any question? Contact ds4h-pedagogie@univ-cotedazur.fr

Q&A with research projects supervisors (>12h45)

<https://app.wooclap.com/FCJIIG>



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d'événement
FCJIIG



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12h45-13h15

DS4H HIC Creativity Projects

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Where to find Fall 2023 HIC Creativity projects?

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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.





HIC Project 1

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

Illustration :





HIC Project 2

ANTHARES

Contact: KILLIAN GABAUT
gabaut.killian@gmail.com

ANTHARES

NICOLAS BIMA

Motion Capture Supervisor
Assistant Developer
Stunt Performer

THOMAS DA-PRATO

Lead Developer
Motion Capture Assistant

KILLIAN GABAUT

3D Artist
VFX Artist

LÉA JOURDET

2D/3D Artist

ANTON RASTORGUEV

Game Designer
Level Designer
Narrative Designer

PITCH

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!**





Call of Duty



GRAPHIC STYLE
HAND PAINTED

Apex Legends

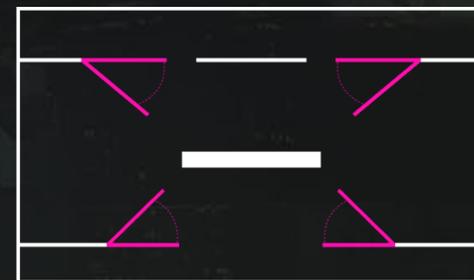
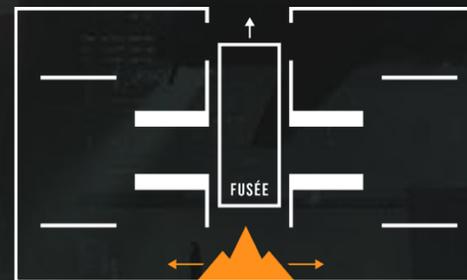
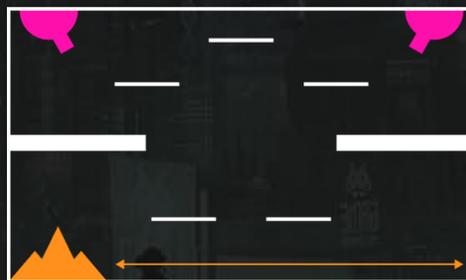


Guilty Gear

ANTHARES

FIGHTING GAME

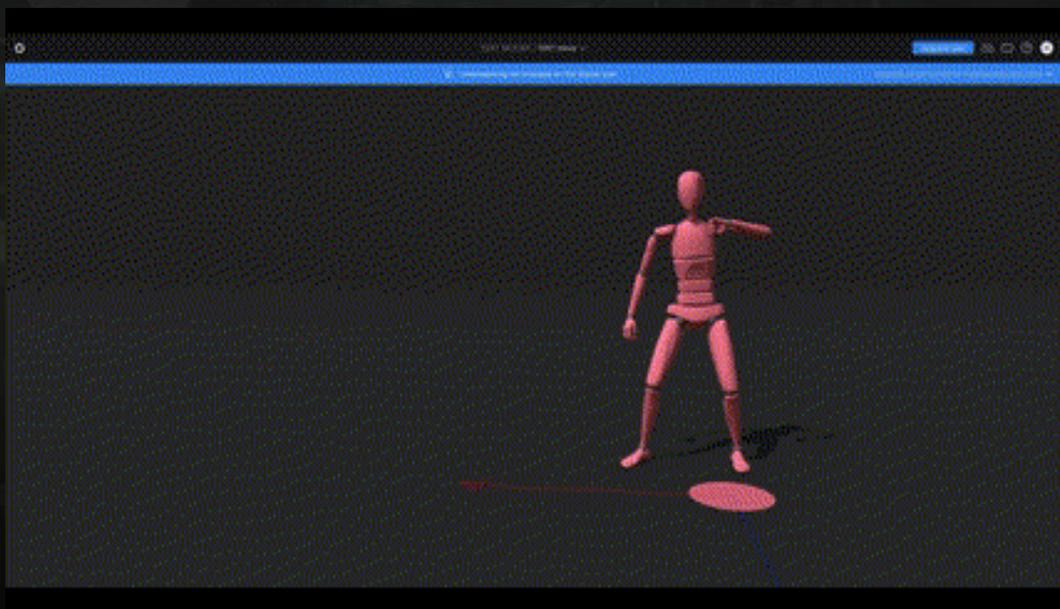
- 3D
- Local 1 VS 1
- Traps and hazards
- Fast paced



ANTHARES

MOTION CAPTURE

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



HIC Project 3

GENESIS

Contact: JULIA CORDEL
cordeljulia@gmail.com



Pitch

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.

- Jeu en vue de coté 2D
- Action plateforme
- Jeu solo
- PC: Steam
- Gratuit

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

Rôles	Minimum	Idéal	Missions
UI/artiste 2D	2	3	Graphisme environnement/décor Animation 2D Cinématique 2D UI dialogues, UI combat
Sound Designer	2	3	Musique du jeu et des cinématiques SFXs et mixages des voix et Doublage
GD/Dev/LD	1	2	Création du GDD Conception des niveaux Développement sur Godot



HIC Project 4

HEBALD FOREST

The Last Goodbye

Contact: DONIA AMIMI
doniadrew16@gmail.com

HEBALD FOREST

The Last Goodbye



Meet The Team



Nadir

Dev
Graphiste 2D



Vini

Game
Developer/Designer
Graphiste 2D/3D



Donia

Product owner
Narrative designer
Graphiste 2D/3D



Jordan

Sound designer



Bassel

Sound designer

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>



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d'événement
FCJIIG



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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>



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Initiative d'Excellence



Students' Supervision Training (SST) + supervision of master students conducting a research project

- For PhD Candidates
- Without prerequisite

FOR PHD CANDIDATES

« Students' Supervision Training »

- 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.

You can enroll the training through this site:

<https://adum.fr/script/formations.pl?mod=3523249&site=uca>

You can submit your project(s) through this site:

<http://erebe-vm6.i3s.unice.fr:8080/europtions/DS4HProjectSubmission.html>

Submit a research project and supervise a master student

- You get « formation » hours (7,5h)
- You get experience in supervising work done by a master student
- You get new perspectives on your work
- You get experience in supervising students

PhD COURSE

Students' Supervision Training

Coordinator:
Anne-Laure SIMONELLI



FORMAT

Classroom

LOCATION

Campus
SophiaTech

PREREQUISITES

Being a PhD
Candidate from
Université Côte
d'Azur

CAPACITY

10 students

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



PhD COURSE

Students' Supervision Training

Coordinator:
Anne-Laure SIMONELLI



SCHEDULE

Date	Time slot	Course title	Location
04/12/2023	12h00-14h00	SST#I - Being an effective supervisor	Campus Sophia Tech, Lucioles, room TD14
18/12/2023	12h00-14h00	SST #II a - Feedback Theory	Campus Sophia Tech, Lucioles, room TD14
11/01/2024	8h30-12h30	SST #II a - Feedback Practice *	Campus Sophia Tech, Lucioles, room TD14
	13h30-17h30	SST #II a - Feedback Practice *	Campus Sophia Tech, Lucioles, room TD14
12/01/2024	8h30-12h30	SST #II a - Feedback Practice *	Campus Sophia Tech, Lucioles, room TD14
	13h30-17h30	SST #II a - Feedback Practice *	Campus Sophia Tech, Lucioles, room TD14
15/01/2024	15h00-17h00	SST #II b - Feedback from feedback	Campus Sophia Tech, Lucioles, room TD14
29/01/2024	12h00-14h00	SST #III - Role play	Campus Sophia Tech, Lucioles, room TD14
05/02/2024	12h00-14h00	SST#IV - Reflexive session	Campus Sophia Tech, Lucioles, room TD14

* Only one mandatory feedback practice session is needed



DS4H Minors in a nutshell

- For Master students
- 3 ECTS
- On...

NEW THIS SEMESTER!
THEMATIC SCHOOL from 18 to 22 December
For Master and PhDs. 3ECTS. No Prerequisite. In English.
Tools 2 Communicate
to early-December

<https://ds4h.univ-cotedazur.eu/minors>





DS4U Minors & Thematic schools in a Fall

Additional courses

lines alongside your major.

<https://>

- 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!

FOR MASTER AND PHD CANDIDATES

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**)

Business

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

Innovation and Creativity

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



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>



MINOR

Web Technologies (Javascript introduction)

Coordinator:
Michel BUFFA



FORMAT

Online courses and
live tutorial
sessions

LOCATION

Online

PREREQUISITES

HTML basics
M1 Computer
Science students
will have custom
projects

CAPACITY

Up to 60 students

WHAT YOU'LL LEARN?

- How to add JavaScript (JS) code in your Web site/Web app, how to debug it
- How to make interactive Web sites through the DOM API
- How to change the CSS styles of HTML5 elements from JavaScript
- How to deal with HTML5 forms
- How to make basic graphics and animations using the HTML5 canvas
- How to use the basic concepts of ES2021, the last iteration of the language: arrays, functions, loops, basic objects

CONTENTS

- **Module 1: Introduction to JavaScript**
- **Module 2: Adding interactivity to HTML**
- **Module 3: Playing with HTML5**
- **Module 4: Structuring data**
- **Module 5: Working with forms**

MINOR

Web Technologies (Javascript introduction)

Coordinator:
Michel BUFFA



SCHEDULE

12/10/2023	18h00-19h00	Online Zoom session
19/10/2023	18h00-19h00	Online Zoom session
26/10/2023	18h00-19h00	Online Zoom session
9/11/2023	18h00-19h00	Online Zoom session
16/11/2023	18h00-19h00	Online Zoom session
23/11/2023	18h00-19h00	Online Zoom session
30/11/2023	18h00-19h00	Online Zoom session
7/12/2023	18h00-19h00	Online Zoom session

- **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.**

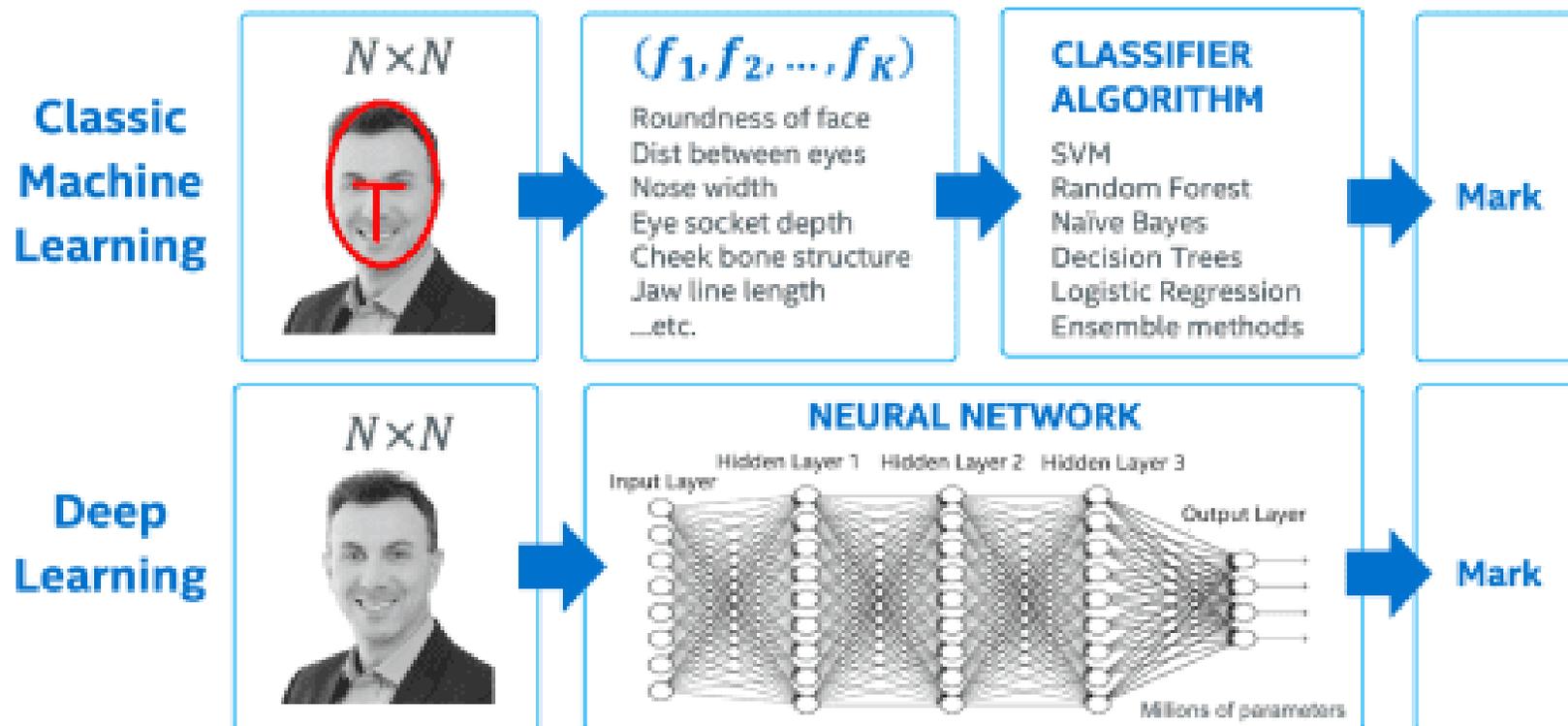


**FREE CERTIFICATION W3C obtained
(value 200 euros/dollars) if you succeed !**



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.).



MINOR

Artificial Intelligence: Introduction to Deep Learning

Coordinator:
Michel RIVEILL



FORMAT

Classroom

LOCATION

Campus
SophiaTech,
Lucioles

PREREQUISITES

- Scientific Bachelor
- Python programming

CAPACITY

24 students

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**

MINOR

Artificial Intelligence: Introduction to Deep Learning

Coordinator:
Michel RIVEILL



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**

MINOR

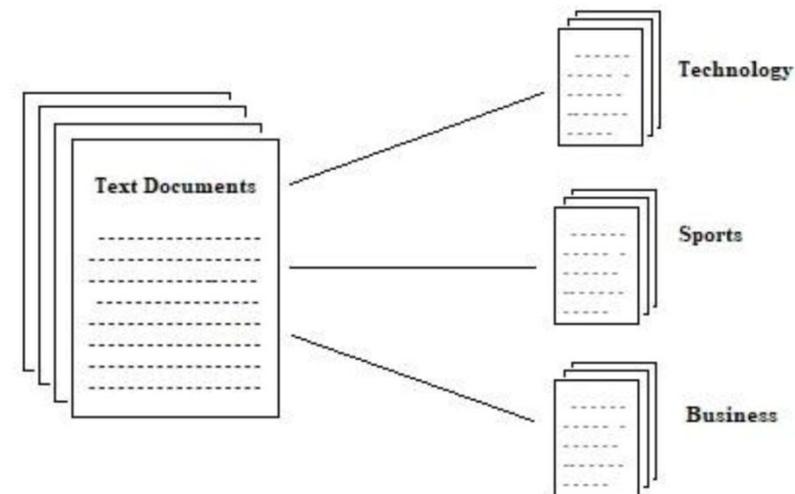
Artificial Intelligence: Introduction to Deep Learning

Coordinator:
Michel RIVEILL

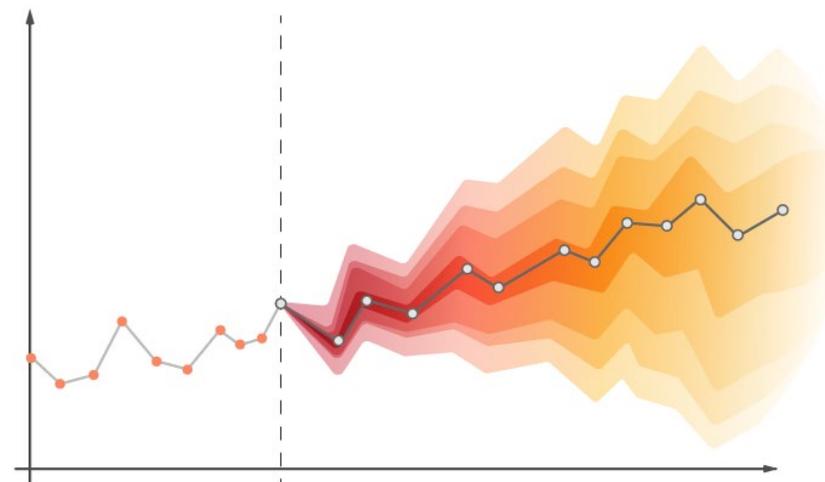


SOME PROJECTS

- Document classification



- Time series forecasting



MINOR

Artificial Intelligence: Introduction to Deep Learning

Coordinator:
Michel RIVEILL



SOME PROJECTS

- Object recognition



- Recommender systems



MINOR

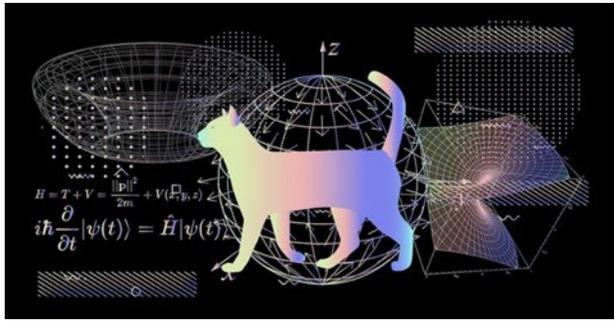
Artificial Intelligence: Introduction to Deep Learning

Coordinator:
Michel RIVEILL



SCHEDULE

12/10/2023	9h00-12h30	Deep learning - General principles	Michel Riveill	Campus SophiaTech, Lucioles, room 352
19/10/2023	9h00-12h30	Multi-layers perceptron	Michel Riveill	Campus SophiaTech, Lucioles, room 352
26/10/2023	9h00-12h30	Auto-Encoder and Latent Representation	Michel Riveill	Campus SophiaTech, Lucioles, room 352
2/11/2023	No lecture	Break		
9/11/2023	9h00-12h30	Recurrent Neural Network for time series	Michel Riveill	Campus SophiaTech, Lucioles, room 352
16/11/2023	9h00-12h30	Convolutional Neural Network 1	Frédéric Precioso	Campus SophiaTech, Lucioles, room 352
23/11/2023	No lecture	SophIA Summit		
30/11/2023	9h00-12h30	Convolutional Neural Network 2	Frédéric Precioso	Campus SophiaTech, Lucioles, room 352
07/12/2023	9h00-12h30	Object Detection	Frédéric Precioso	Campus SophiaTech, Lucioles, room 352
14/12/2023	9h00-12h30	Recomender Systems and Lab Presentation	Michel Riveill	Campus SophiaTech, Lucioles, room 352



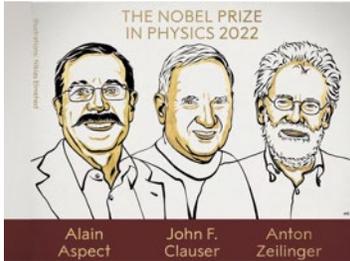
MINOR Quantum Engineering

Virginia D'Auria

Boost your quantum skills for
practical applications



Nobel prizes



The Quantum buzz (with a lot of money)

POP culture!



TECH AND INNOVATION
The quantum security era is coming – here's how leaders can prepare for it
WORLD ECONOMIC FORUM
Apr 14, 2023



Global Quantum public efforts: \$38.6b

Forbes
Subscribe to newsletters
Could Quantum Computing Better Predict And Prevent Economic Downturns?

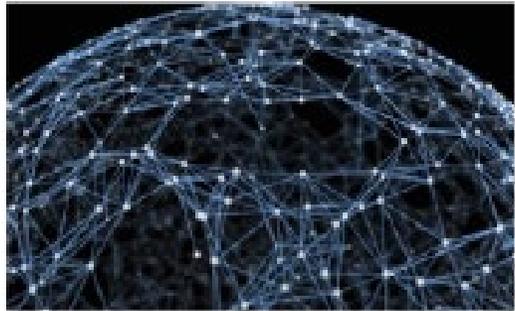
Press and media



Private Investments in 2022: \$2.2b

Why such an excitement?

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



Communication



Computation/Simulation



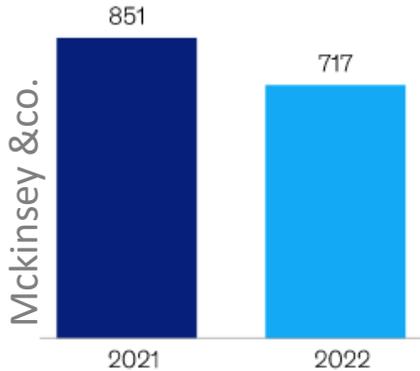
Sensing

**Disruptive technologies
(societal and strategic impact, \$106b market size in 2040)**

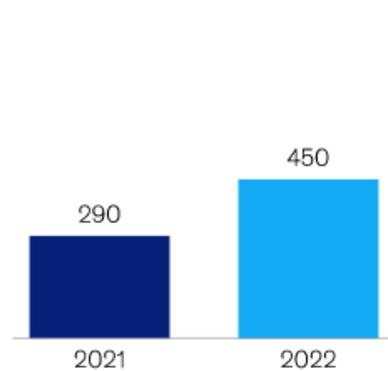


A Quantum talent gap!

Number of active job postings¹



Number of quantum technology master's-level graduates yearly²



WANTED

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



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

Quantum Awareness

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

MINOR

Quantum Engineering

Coordinator:
Virginia D'Auria



FORMAT

Hybrid

LOCATION

Campus Valrose

PREREQUISITES

- Scientific bachelor, with some basic linear algebra
- English level : B1 (test your English)

CAPACITY

20 students

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**

MINOR

Quantum Engineering

Coordinator:
Virginia D'Auria



SCHEDULE

12/10/2023	9h00-12h00	1 - Enabling technologies	Fabrice Raineri	Campus Valrose, room to be defined
19/10/2023	9h00-12h00	2 - Nanotechnologies for quantum devices	Fabrice Raineri	Campus Valrose, room to be defined
26/10/2023	9h00-12h00	3 - State of the art of quantum circuits	Fabrice Raineri	Campus Valrose, room to be defined
9/11/2023	9h00-12h00	4 - Two-Photon Interference	Laurent Labonté	Campus Valrose, room to be defined
16/11/2023	9h00-12h00	5 - Quantum Metrology	Laurent Labonté	Campus Valrose, room to be defined
23/11/2023	9h00-12h00	6 - Basic physics of cold atoms	William Guerin	Campus Valrose, room to be defined
30/11/2023	9h00-12h00	7 - Application of cold atoms and ions	William Guerin	Campus Valrose, room to be defined
7/12/2023	9h00-12h00	8 - Evaluation	Fabrice Raineri and Laurent Labonté	Campus Valrose, room to be defined

MINOR

Sensor and Network Devices

Coordinator:
Jean-Marc RIBERO



FORMAT

Classroom

LOCATION

Campus
SophiaTech,
Templiers

PREREQUISITES

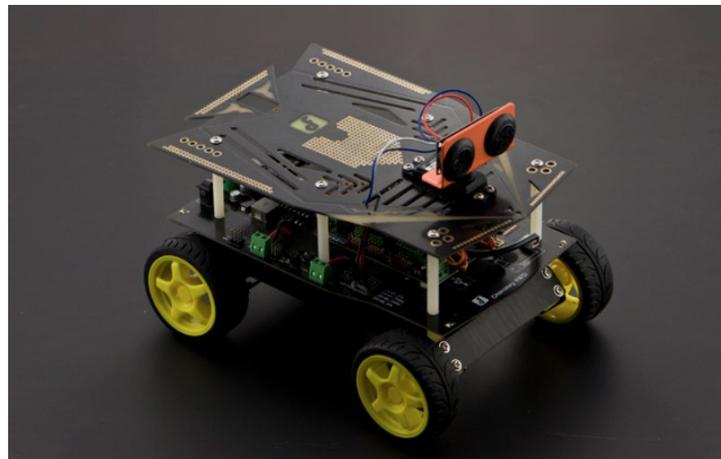
Basics in
programming
language

CAPACITY

20 students

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.



CONTENTS

Introduction to sensor :
Principle of functioning
The main families of sensor
Data extraction

Wireless Communication :
Working principle
Study of wireless protocol,
application vs protocol
Definition of main feature (metric)
to quantify and qualify wireless
communication

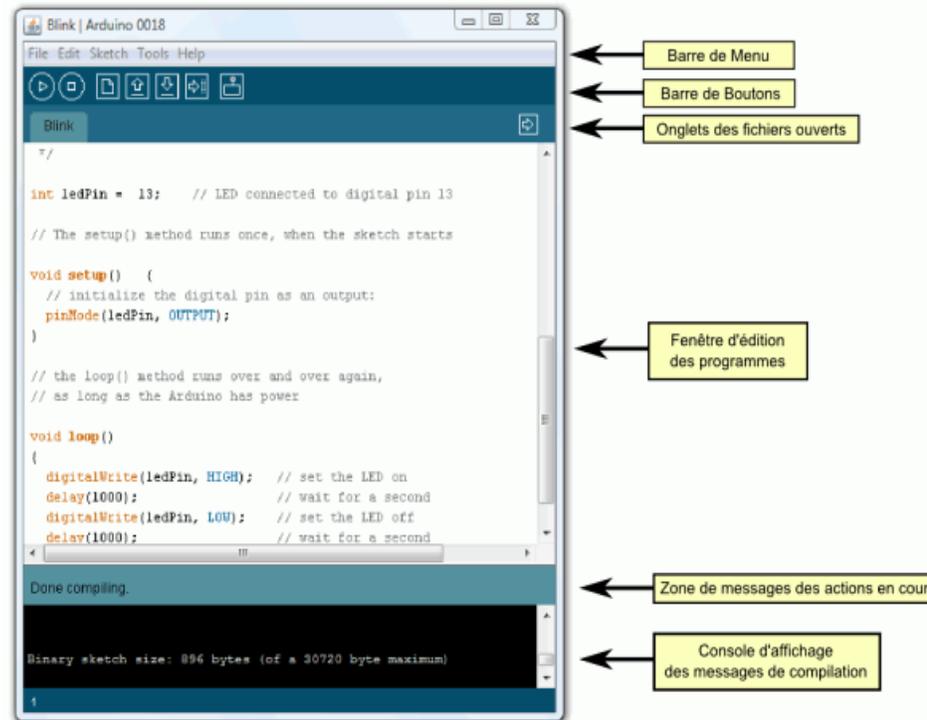
Sensor and Network Devices

Coordinator:
Jean-Marc RIBERO

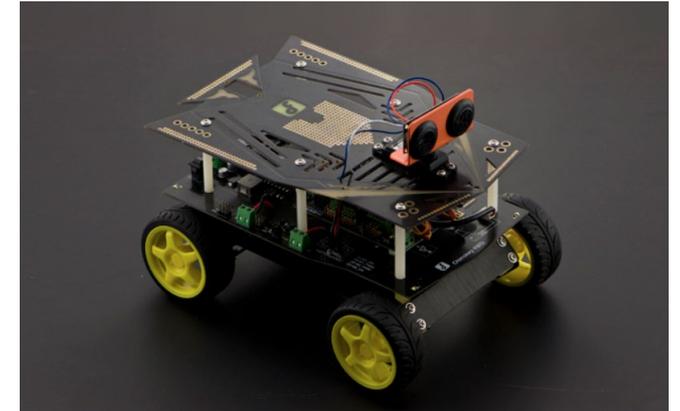


Practical Work and Project

Using an arduino BLE board: Bluetooth low energy, identical to the Arduino Uno board + bluetooth control



The language - based on C / C ++



MINOR

Sensor and Network Devices

Coordinator:
Jean-Marc RIBERO



SCHEDULE

12/10/2023	9h00-12h00	Introduction/ Arduino Environment	Campus SophiaTech Templiers, room F201
19/10/2023	9h00-12h00	Concept of robot and first tests	Campus SophiaTech Templiers, room F201
26/10/2023	9h00-12h00	Mini-project - Tutorial	Campus SophiaTech Templiers, room F201
09/11/2023	9h00-12h00	Mini-project	Campus SophiaTech Templiers, room F201
16/11/2023	9h00-12h00	Mini-project	Campus SophiaTech Templiers, room F201
23/11/2023	9h00-12h00	Mini-project - Using Bluetooth	Campus SophiaTech Templiers, room F201
30/11/2023	9h00-12h00	Mini-project - Using of camera	Campus SophiaTech Templiers, room F201
7/12/2023	9h00-12h00	Evaluation : oral presentation	Campus SophiaTech Templiers, room F201



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>



MINOR

Introduction to Scientific Research

Coordinator:
Gilles BERNOT



FORMAT

Classroom

LOCATION

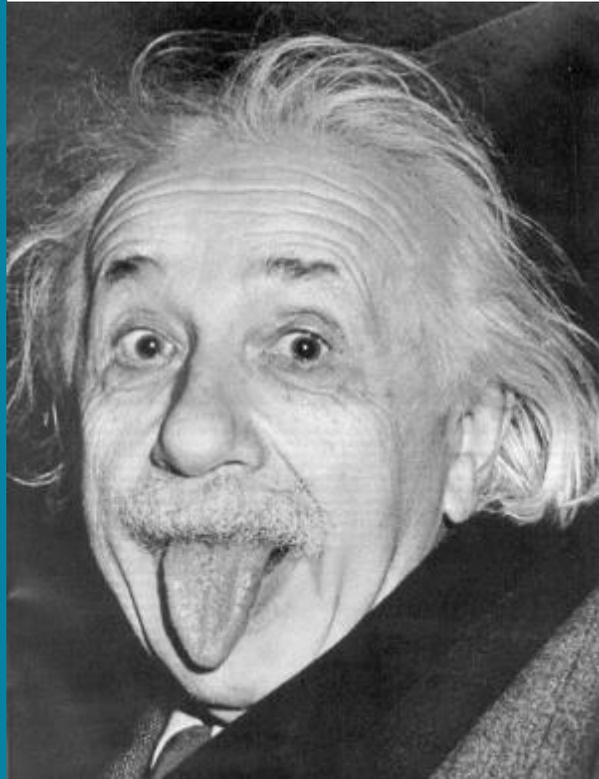
Campus
SophiaTech

PREREQUISITES

No

CAPACITY

24 students



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.**

MINOR

Introduction to Scientific Research

Coordinator:
Gilles BERNOT



SCHEDULE

12/10/2023	9h00-12h15	9h00-9h15 - Gilles Bernot	Welcome, Course goals and outline, evaluation modalities	Campus SophiaTech Templiers, Building B, room B103
		9h15-10h45 - Eric Picholle	Epistemology, "What is science?"	Campus SophiaTech Templiers, Building B, room B103
		11h00-12h15 - Anne-Laure Simonelli	Research: a job of passion	Campus SophiaTech Templiers, Building B, room B103
19/10/2023	9h00-12h15	9h00-10h30 - Hui-Yin Wu	Methods for conducting research - Bibliography 1	Campus SophiaTech Templiers, Building B, room B103
		10h45-12h15 - Sid Touati	Bibliography 2	Campus SophiaTech Templiers, Building B, room B103
26/10/2023	9h00-12h15	9h00-9h30 - Gilles Bernot	Bibliographic analysis on a given list of articles	Campus SophiaTech Templiers, Building B, room B103
		9h45-12h15 - Fabien Ferrero	Scientific writing	Campus SophiaTech Templiers, Building B, room B103
09/11/2023	9h00-12h15	Sid Touati	Experimentation workshop: Statistical aspects of experimentation	Campus SophiaTech Templiers, Building B, room B103
16/11/2023	9h00-12h15	Hui-Yin Wu	Experimentation workshop: Human-Computer Interaction	Campus SophiaTech Templiers, Building B, room B103
23/11/2023	9h00-12h15	9h00-10h30 - Nadia Abchiche	Digital Deontology	Campus SophiaTech Templiers, Building B, room B103
		10h45-12h15 - Gilles Bernot	Article analysis: last questions	Campus SophiaTech Templiers, Building B, room B103
30/11/2023	9h00-12h15	9h00-10h30 - Fabien Ferrero	Scientific collaborations	Campus SophiaTech Templiers, Building B, room B103
		10h45-12h15 - Anne-Laure Simonelli	PhD and its career opportunities	Campus SophiaTech Templiers, Building B, room B103
07/12/2023	8h00-12h20	Jury	Evaluation	Campus SophiaTech Templiers, Building B, room B103

MINOR

Organize Your Activity in Project Mode

Coordinator:
Emmanuel LE ROY



Watch
the
video

MINOR

Organize Your Activity in Project Mode

Coordinator:
Emmanuel LE ROY



FORMAT

Classroom

LOCATION

Campus
SophiaTech,
Lucioles and online,

PREREQUISITES

No

CAPACITY

12 students

WHAT YOU'LL LEARN?

- How to formalize and 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

MINOR

Organize Your Activity in Project Mode

Coordinator:
Emmanuel LE ROY



MINOR SCHEDULE

12/10/2023	9h00-12h00	Introduction to project management	Campus SophiaTech, Lucioles, room TD09
12/10/2023	17h30-20h30	Project life cycle and golden triangle of project management	Online
19/10/2023	17h30-20h30	Managing schedule and making a realistic plan	Online
26/10/2023	17h30-20h30	Managing risks and quality	Online
16/11/2023	9h00-12h00	How to manage a project with Scrum methodology	Campus SophiaTech, Lucioles, room TD09
16/11/2023	17h30-20h30	Managing the budget of your project	Online
30/11/2023	17h30-20h30	Managing communication	Online
07/12/2023	9h00-12h00	Conclusion on project management - Final exam	Campus SophiaTech, Lucioles, room TD09

THEMATIC SCHOOL

Tools 2 Communicate

Dec 18 > Dec 21

Coordinator:
Anne-Laure SIMONELLI



FORMAT

Hybrid (classroom and synchronous tutoring sessions)

LOCATION

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

PREREQUISITES

To have a LinkedIn profile created and a written CV.

CAPACITY

15 students



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

Tools 2 Communicate

Dec 18 > Dec 21

Coordinator:
Anne-Laure SIMONELLI



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



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>



MINOR

Technological Challenges in the IoT Domain

Coordinator:
Yves ROUDIER



FORMAT

Hybrid

LOCATION

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

PREREQUISITES

No

CAPACITY

20 students

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:

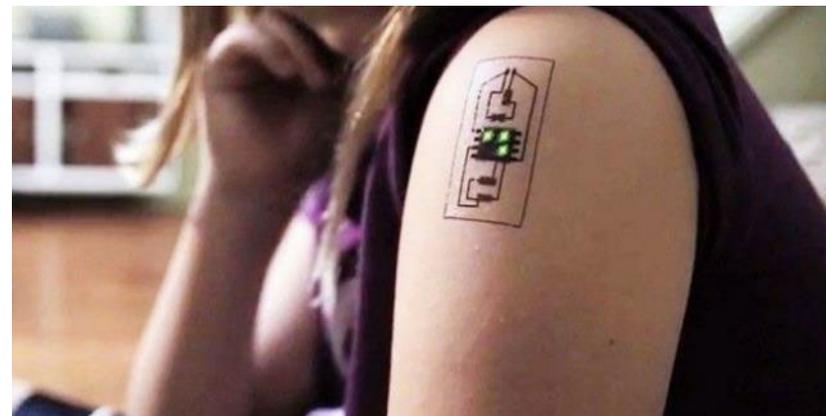
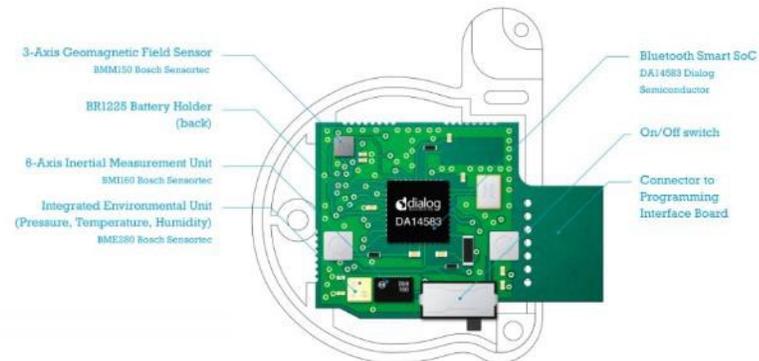
- **Distributed infrastructures for connected objects**
- **Environmental issues in IoT**
- **Introduction to data valorization**
- **Security and privacy for IoT**



MINOR

Technological Challenges in the IoT Domain

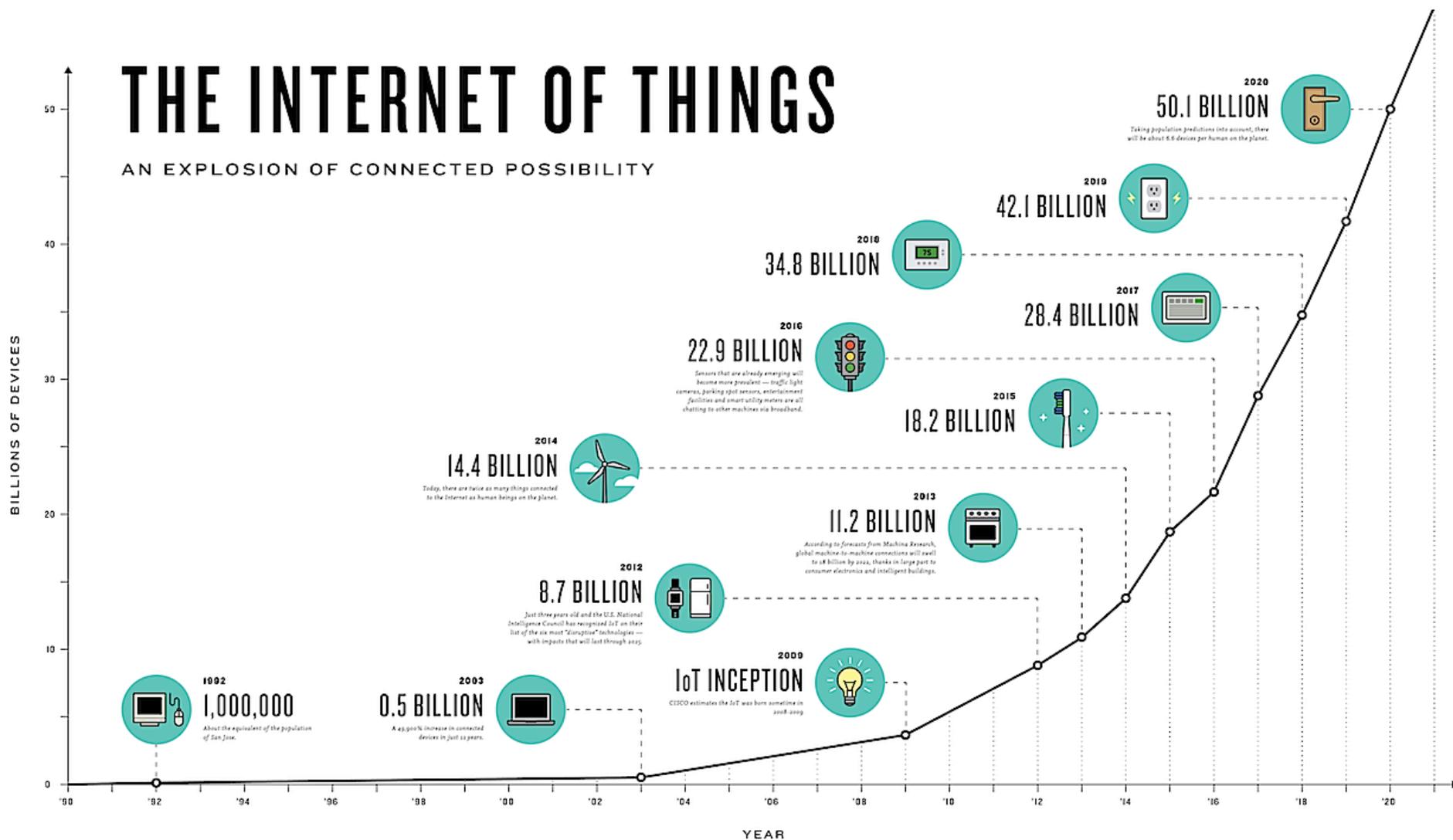
Coordinator:
Yves ROUDIER



MINOR

Technological Challenges in the IoT Domain

Coordinator:
Yves ROUDIER



MINOR

Technological Challenges in the IoT Domain

Coordinator:
Yves ROUDIER



SCHEDULE

12/10/2023	9h00-12h00	Security and privacy for IoT	Yves Roudier	Campus SophiaTech, Lucioles, room TD06
19/10/2023	9h00-12h00	Security and privacy for IoT	Yves Roudier	Campus SophiaTech, Lucioles, room TD06
26/10/2023	9h00-11h45	Project	Yves Roudier	Campus SophiaTech, Lucioles, room TD06
09/11/2023	9h00-12h00	Distributed infrastructure for connected objects	Jean-Yves Tigli	Campus SophiaTech, Lucioles, room TD06
16/11/2023	9h00-12h00	Distributed infrastructure for connected objects	Jean-Yves Tigli	Campus SophiaTech, Lucioles, room TD06
23/11/2023	9h00-11h45	Project	Jean-Yves Tigli	Campus SophiaTech, Lucioles, room TD06
30/11/2023	9h00-12h00	Introduction to data valorization	Guilhem Molines	Online
07/12/2023	9h00-12h00	Introduction to data valorization	Guilhem Molines	Online

MINOR

ICT and Environment

(Internet and Environment)

FORMAT

Classroom

LOCATION

Campus
SophiaTech

PREREQUISITES

Be able to install and run software on your computer. Basic programming (Python, Web) is a plus.

CAPACITY

25 students

Coordinators:
Luc DENEIRE and
Guillaume URVOY-KELLER



THE ORIGIN

is

- **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?

MINOR

ICT and Environment

(Internet and Environment)

Coordinators:
Luc DENEIRE and
Guillaume URVOY-KELLER



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**



MINOR

ICT and Environment

(Internet and Environment)

Coordinators:
Luc DENEIRE and
Guillaume URVOY-KELLER



SCHEDULE

12/10/2023	9h00-12h00	The Anthropocentric age	Luc Deneire	Campus SophiaTech Templiers, Building B, room B203
19/10/2023	9h00-12h00	Background on Energy and ICT	Abbas Bradai	Campus SophiaTech Templiers, Building B, room B203
26/10/2023	9h00-12h00	Measuring ICT and Internet Footprint – Hands-on session	Abbas Bradai	Campus SophiaTech Templiers, Building B, room B203
09/11/2023	9h00-12h00	Measuring ICT and Internet Footprint	Abbas Bradai	Campus SophiaTech Templiers, Building B, room B203
16/11/2023	9h00-12h00	Green Algorithm Design	Frédéric Giroire	Campus SophiaTech Templiers, Building B, room B203
23/11/2023	9h00-12h00	Eco-friendly software design – Hands-on session	Dino Martin Lopez-Pacheco	Campus SophiaTech Templiers, Building B, room B203
30/11/2023	9h00-12h00	Law, Environment and Digital world	Mélanie Olivari	Campus SophiaTech Templiers, Building B, room B207
7/12/2023	9h00-12h00	Oral presentations of personal projects	Luc Deneire and Abbas Bradai	Campus SophiaTech Templiers, Building B, room B203

MINOR

Anthropology and Ethics of Technics

Coordinator:
Valentina TIRLONI



Watch
the
video

MINOR

Anthropology and Ethics of Technics

Coordinator:
Valentina TIRLONI



FORMAT

Moodle
asynchronous and
synchronous live
online tutorials

LOCATION

Online

PREREQUISITES

No

CAPACITY

20 students

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.



MINOR

Anthropology and Ethics of Technics

Coordinator:
Valentina TIRLONI



SCHEDULE

12/10/2023	18h00-19h00	Introduction	online synchronous
19/10/2023	18h00-19h00	Anthropological inquiry on Technics	on Moodle
26/10/2023	18h00-19h00	New sociability	on Moodle
09/11/2023	18h00-19h00	Transhumanism	on Moodle
16/11/2023	18h00-19h00	Philosophical inquiry on Technics	online synchronous
23/11/2023	18h00-19h00	Ethical Issues on Technics	on Moodle
30/11/2023	18h00-19h00	Politics and Technics: e-democracy	online synchronous
07/12/2023	18h00-19h00	Conclusions	on Moodle

MINOR

Digital Intellectual Property and Law

Coordinator:
Frédéric MARTY



FORMAT

Classroom

LOCATION

Campus Trotabas

PREREQUISITES

No

CAPACITY

20 students

CONTENTS

- Competition law applied to digital markets
- Coordinated algorithmic anticompetitive practices (collusions and mergers control)
- Consumer protection and digital manipulations

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.



MINOR

Digital Intellectual Property and Law

Coordinator:
Frédéric MARTY



SCHEDULE

12/10/2023	8h00-12h00	Digital Markets and coordinated practices	Frédéric Marty	Campus Trotabas, room 404
19/10/2023	8h00-12h00	Consumer protection and digital manipulations	Jeanne Mouton	Campus Trotabas, room 404
26/10/2023	8h00-12h00	Digital Markets and Mergers control	Frédéric Marty	Campus Trotabas, room 404
16/11/2023	8h00-12h00	Consumer protection and digital manipulations	Jeanne Mouton	Campus Trotabas, room 404
30/11/2023	8h00-12h00	Competition Law and Digital Markets	Nathalie Nielson	Campus Trotabas, room 404
07/12/2023	8h00-12h00	Competition Law and Digital Markets	Nathalie Nielson	Campus Trotabas, room 404



DS4H minors / Fall 2023

Technical

- Web Technologies / Javascript intro
- Artificial Intelligence: Intro to Deep Learning
- Quantum Engineering
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- Tools 2 Communicate (Thematic School)

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- 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>



MINOR

Digital Strategy

Coordinator:
Lise ARENA



FORMAT

Classroom

LOCATION

Campus Saint Jean
d'Angely

PREREQUISITES

No

CAPACITY

25 students

CONTENTS

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**

MINOR

Digital Strategy

Coordinator:
Lise ARENA



SCHEDULE

12/10/2023	9h00-12h00	Digital Strategy	Campus Saint Jean d'Angély, room 211
19/10/2023	9h00-12h00	Digital Strategy	Campus Saint Jean d'Angély, room 211
26/10/2023	9h00-12h00	Digital Strategy	Campus Saint Jean d'Angély, room 211
09/11/2023	9h00-12h00	Digital Strategy	Campus Saint Jean d'Angély, room 211
16/11/2023	9h00-12h00	Digital Strategy	Campus Saint Jean d'Angély, room 211
23/11/2023	9h00-12h00	Digital Strategy	Campus Saint Jean d'Angély, room 211
30/11/2023	9h00-12h00	Digital Strategy	Campus Saint Jean d'Angély, room 211
07/12/2023	9h00-12h00	Evaluation	Campus Saint Jean d'Angély, room 211

MINOR

Website Creation Workshop

Coordinator:
Nicolas FOGLIARINI



FORMAT

Classroom and online synchronous tutorial sessions

LOCATION

Campus Valrose or online depending on the session (see schedule)

PREREQUISITES

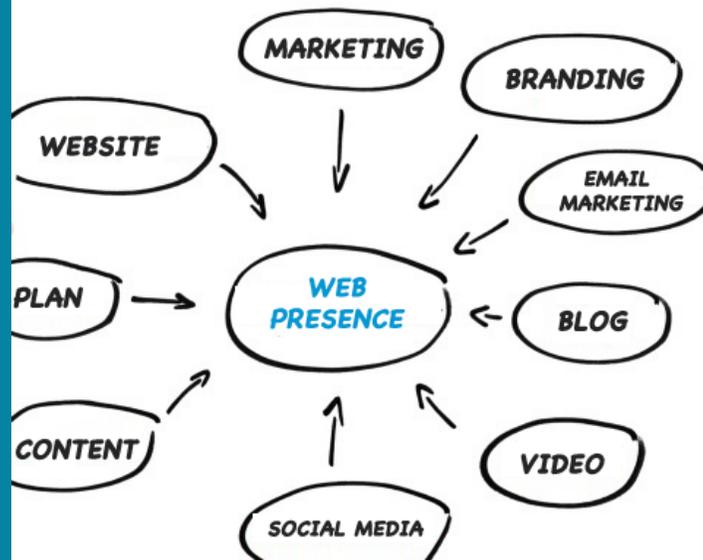
No

CAPACITY

20 students

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.



MINOR

Website Creation Workshop

Coordinator:
Nicolas FOGLIARINI



SCHEDULE

12/10/2023	9h00-13h00	Introduction on various online portfolio's platforms	Campus Valrose, Petit Valrose, room PV111
	18h00-19h00	Focus on Google My Business	Online live tutorial session
19/10/2023	9h00-13h00	Preparation work and wordpress intro	Campus Valrose, Petit Valrose, room PV111
	18h00-19h00	A website that converts	Online live tutorial session
09/11/2023	9h00-13h00	Creating content	Campus Valrose, Petit Valrose, room PV111
	18h00-19h00	Focus on right clearance	Online live tutorial session
16/11/2023	9h00-13h00	Working with themes and plugins, uploading, security...	Campus Valrose, Petit Valrose, room PV111
	18h00-19h00	Focus on SEO	Online live tutorial session
23/11/2023	9h00-13h00	Working on your own online portfolio last details + Exam	Campus Valrose, Petit Valrose, room PV111



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>



MINOR

Sociology of Creative Industries

Coordinator:
Manuel BOUTET



MINOR

Sociology of Creative Industries

Coordinator:
Manuel BOUTET



FORMAT

Classroom

LOCATION

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

PREREQUISITES

No

CAPACITY

30 students

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?

MINOR

Sociology of Creative Industries

Coordinator:
Manuel BOUTET



SCHEDULE

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

MINOR

Innovation and Design Thinking

Coordinator:
Nicolas BRUNO



FORMAT

Classroom
(workshops)

LOCATION

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

PREREQUISITES

No

CAPACITY

Variable according
to the workshops

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.



MINOR

Innovation and Design Thinking

Coordinator:
Nicolas BRUNO



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

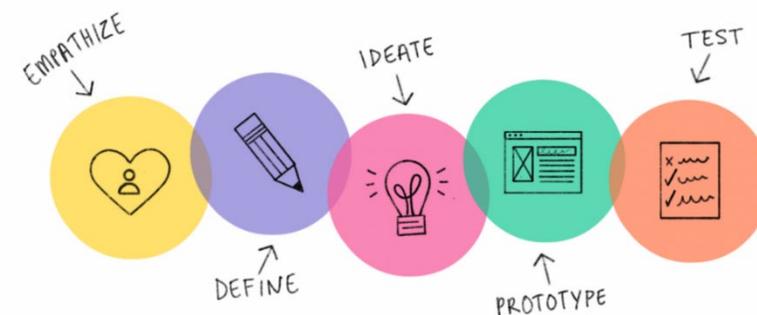
The Entrepreneurship workshop invites you to discover the essential concepts of entrepreneurship, including the description of an entrepreneurial process, the profile of the entrepreneur and the role of business creation in society. You will also explore the mindset and methods of entrepreneurship, which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



MINOR

Innovation and Design Thinking

Coordinator:
Nicolas BRUNO



SCHEDULE

Choose 3 workshops out of 4

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

MINOR

Innovation and Design Thinking

Coordinator:
Nicolas BRUNO



Let's stay in touch!



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



Website
<https://ice.univ-cotedazur.fr>



LinkedIn
<https://www.linkedin.com/company/innovation-centre-for-entrepreneurship/>



MINOR

Innovation and Creativity

Coordinator:
Cindy DE SMET



FORMAT

Online+
synchronous
tutoring sessions

LOCATION

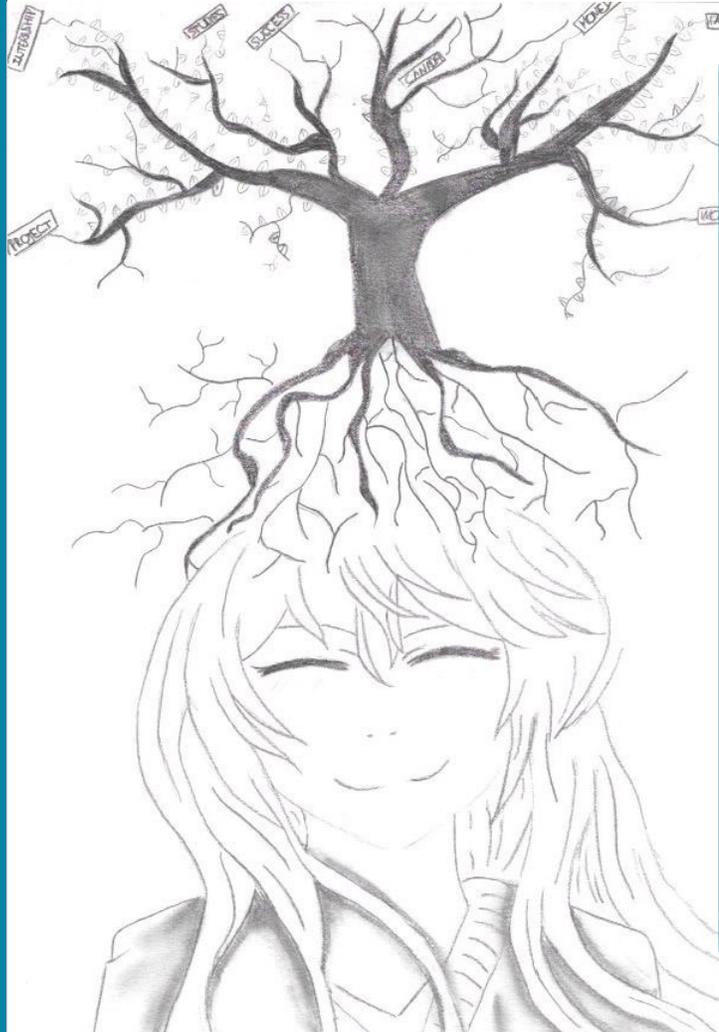
Moodle Learning
Management
System - ZOOM

PREREQUISITES

Minimum language
skills in English

CAPACITY

30 students



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



SCHEDULE

Date	Time	Course title	Format/Location
12/10/2023	18h30-20h00	Tutoring session 1	Online
16/11/2023	18h30-20h00	Tutoring session 2	Online
07/12/2023	18h30-20h00	Optional: Live recording self-reflection task. Possibility for task-related advice	Online, on appointment

MINOR

Innovation and Creativity

Coordinator:
Cindy DE SMET



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)



[Copier le lien de participation](#)



- 1 Allez sur wooclap.com
- 2 Entrez le code d'événement dans le bandeau supérieur

Code
d'événement
FCJIIG



- 1 Envoyez [@FCJIIG](#) au **06 44 60 96 62**
- 2 Vous pouvez participer

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

UNIVERSITÉ
CÔTE D'AZUR



ÉCOLE UNIVERSITAIRE DE RECHERCHE
**SYSTÈMES NUMÉRIQUES
POUR L'HUMAIN**



Initiative d'Excellence



Registration for the multidisciplinary options offer : how does it works?

	PROJECTS	MINORS
STEP 1 WISHES	until September 18th (23h00): 1st come, 1st served! Masters students → wishes mandatory on EREBE platform PhD candidates → wishes mandatory on ADUM platform	
	1 wish	3 wishes
STEP 2 ASSIGNMENT	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 & the required documents that I'll ask you by email.	
STEP 3 PEDAGOGICAL REGISTRATION	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!	



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!



Pedagogical Registration: IP WEB

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.

Style 1

Inscription Pédagogique en Ligne

Merci de vous identifier : Aide

Votre numéro d'étudiant est indiqué sur votre carte d'étudiant.

Numéro étudiant :

Date de naissance (jjmmaaaa) :

Valider Réinitialiser



You will not be able to obtain your grades or validate your diploma without completed pedagogical registrations!





07/09/2023 :
DS4H Kickoff
(part 1)

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

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

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

Week 39/40
max
Assignment to
your
minor/project
confirmed by
email

12/10/2023
First minor
course



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!

UNIVERSITÉ
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ÉCOLE UNIVERSITAIRE DE RECHERCHE
**SYSTÈMES NUMÉRIQUES
POUR L'HUMAIN**



Initiative d'Excellence



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>

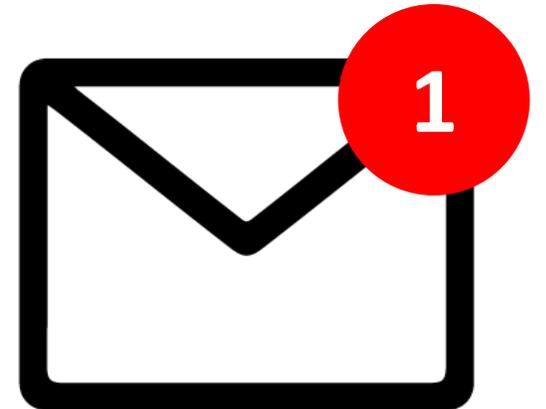
CAUTION! First come, first served!



Check your mailbox!

**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 »





What to do? When? How?

ONE LINK:

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

before Sept. 18, 23h00

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

CAUTION! minors' / thematic school' schedules must be compatible with your own major's schedule + some required prerequisites!
It's of your responsibility!

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 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!**

Deadline for application
September 18th
23h00
1st come, 1st served!

Now it's up to you!

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

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