# **METHOD**

Methodology for Research in Networking

M2 — Networking Sorbonne Université

2021-2022

### Contact

- Questions about a specific class
- Send message to the professor in charge of that class
- ▶ General question
  - Send message using the subject: "Subject: [METHOD]..."
- Website

https://www-npa.lip6.fr/~tixeuil/m2r/pmwiki.php?n=Main.METHOD

### Who?

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# Objectives of this course

- ▶ Understand what scientific research is
- ▶ Identify the main activities of a researcher
- Relate these activities to those of technical leaders.
- Exercise some common practices
- ▶ Share

# Why this course?

Goes far beyond academics

- Result of an observation over several years
- ▶ Lots of goodwill, insufficient practice...
- Heterogeneous group of students
- Resource optimization

1 group discussion vs. N individual discussions

▶ Enough time to improve: 14 weeks

Instead of 7 weeks a few years ago

# Expectations

- ▶ We have been teaching this course for some time...
- ▶ Self-assessment

We could improve and better adapt to the students' needs

You will suffer less in the future

Continuous improvements (feedbacks appreciated)

Works well for the students that really want to succeed

Whatever you will do later...

... you will have to apply what we you will practice here!

It will save you a lot of time

### Calendar

▶ 14 × 4 hours

Very dense agenda (in the past, we used to have 7 weeks) Lots of exercices in class, homework, and one final project

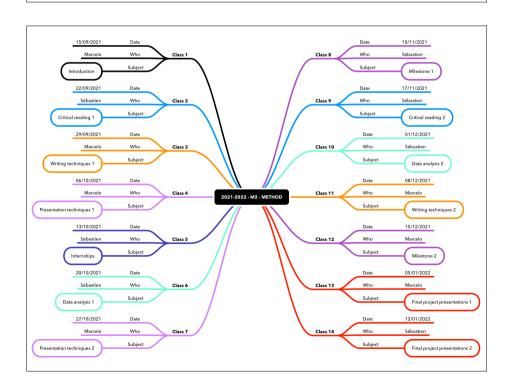
Schedule

Wednesday morning: 8:30 a.m. - 12:45 p.m.

# Methodology

- ▶ All classes are exclusively in English
- ▶ Listen, practice, participate, do the assignments
- ▶ This course will require a lot of effort
- ▶ Your participation is fundamental!

Start today



# Reading Writing Data analysis Presenting Milestones Project final presentations Internships

# General organization of a class

- Discussion on homework of previous class (if any)
- ▶ Techniques on a particular topic

E.g.: critical reading, writing

- Practice
- Discussion
- ▶ Homework statement for the following class

### Evaluation

Detailed in the following slides

- ▶ Homeworks: *H*
- Participation and presence in class: C
- ▶ Project: *P*
- ▶ Final grade:

$$G = 0.4 \times H + 0.2 \times C + 0.4 \times P$$

Note that homeworks count a lot!

# Homework 01 - METHOD 2020-2021 Sign in Welcome to the METHOD 2020-2021 (Homework 01 - METHOD 2020-2021) submissions site. Sign in to submit or review papers. Email Sign me in I forgot my password I lide\*\*I\*M\* a new user and want to create an account Create account Submissions: No deadline You must sign in to register papers.

### Homeworks

- ▶ At the end of each class, one homework is assigned
- ▶ The deadline depends on the topic (between 1 and 4 weeks)

The deadline is 11 p.m. of the date specified (strict deadline!)

E.g., for the first homework, the deadline is September 22, 2021, 11:00 p.m.

- No homework = zero!
- How to submit your homework?
  Through HotCRP on the METHOD webpage
  No homework accepted by email
- ▶ Template on the webpage (respect the page limit!)















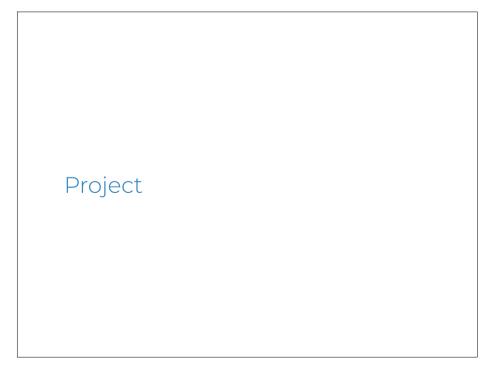












# Project

Student selects the subject (individual work)

We will see how later

Use all techniques learned for the final project

The idea is to follow all steps and provide a scientific paper Defend the idea with a nice presentation

▶ Grade:

Written document + presentation + quality of contribution

# Project

You will start working on it today

# Project

Written document

3 pages in PDF (all included, even bibliography)

Template available on the website (same for homeworks)

▶ Presentation during the 13th or 14th class

Jan. 5 or Jan. 12, 2022

Duration will depend on the total number of students

Deadline for both paper and slides:

Wednesday, December 17, 2021, 11 p.m.

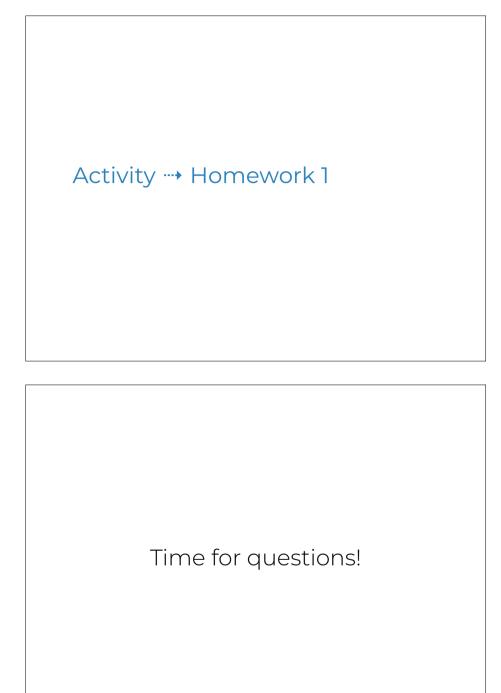
▶ HotCRP will be the guardian

# Participation during classes

- ▶ We will evaluate participation in class
- We will call students and explicitly ask for their participation

Spontaneous participation also counts

- Discussion on homeworks are taken into account
- ▶ All students will have to participate!



### Homework

- ▶ Select one reference paper from a conference/journal This paper should guide your selection of your project's topic
- ▶ One-page write up with three parts
  - How did you select this paper and why?
     Detail your process for selecting paper
     Explain why you find it interesting
  - 2. Summary of the reference paper
  - 3. Short description of your project topic
- $\,\,{}^{\triangleright}\,$  Submit it using the link on the METHOD website

Deadline: September 22, 2021, 11pm