

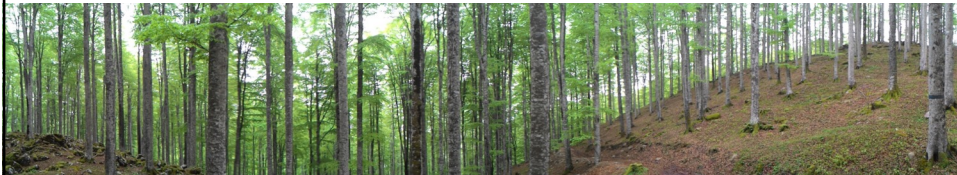


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DI PADOVA

TESAF

Forest_Science@unipd: the academic side

Paola Gatto, 24 Sept, 2019



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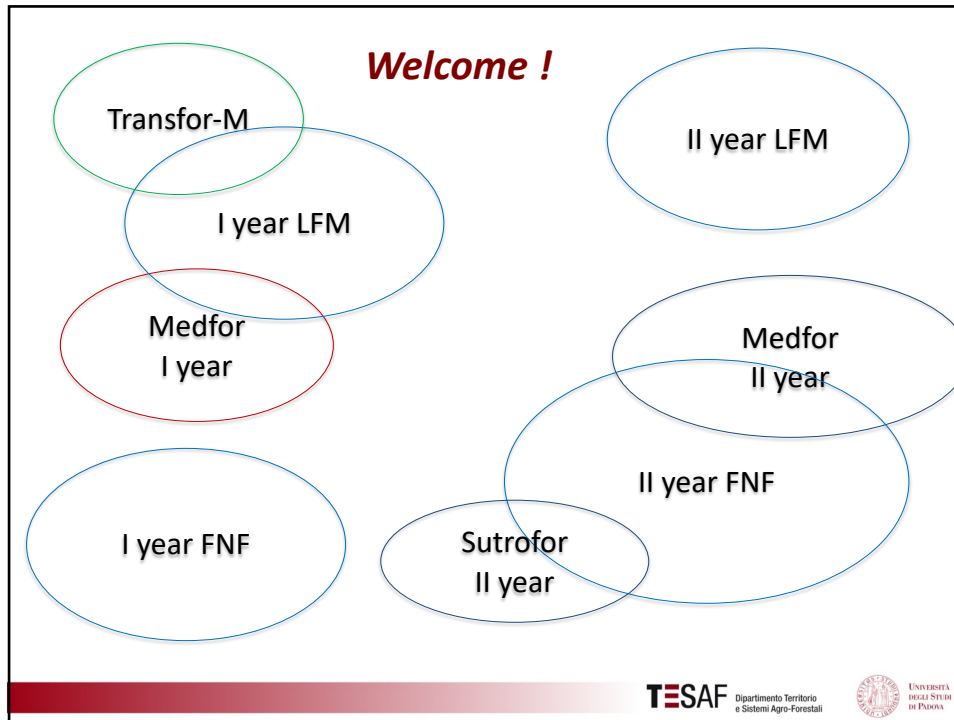
Why this meeting.....

- Getting to know each other
- Learn about the courses you will attend
- Learn about some practicalities
- Answer to your questions, doubts

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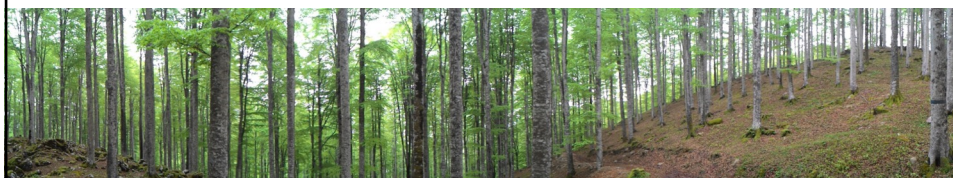
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Forest Sciences participates to 4 **International double degree programmes**

- Erasmus Mundus **SUTROFOR**: *Sustainable Tropical Forestry* from **2006-2007**
Partner Universities: Copenhagen (Denmark), Dresden (Germany), Bangor (UK), Montpellier (France)
- Erasmus Mundus **MEDFOR** *Mediterranean Forestry and Natural Resources Management* from **2012-2013**
Partner Universities: Viterbo (Italy), Lisbon and Porto (Portugal), Lleida and Valladolid (Spain), Karadeniz (Turkey)
- **TRANSFOR-M** Transatlantic Forest Master
Partner Universities: University of British Columbia, University of New Brunswick, University of Alberta and 5 European Universities: Freiburg, Bangor, Wien (Boku), SLU, Eastern Finland
- Erasmus Mundus **SUFONAMA**: *Sustainable Forests and Nature Management* from **2007-2008**
Partner Universities: Copenhagen (Denmark), Goettingen (Germany), Bangor (UK), Alnarp (Sweden)




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Italy is a forest-rich country



1950 = 5.5 M hectares
2000 = 10.4 M hectares
2010 = 11 M hectares

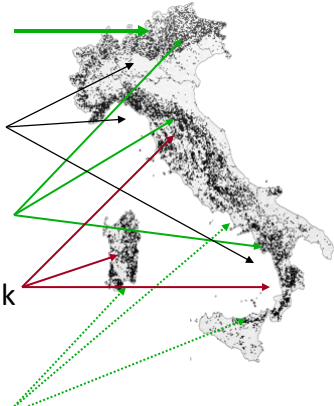
Forest: about 33% of total land area

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Italy is a forest-biodiverse country

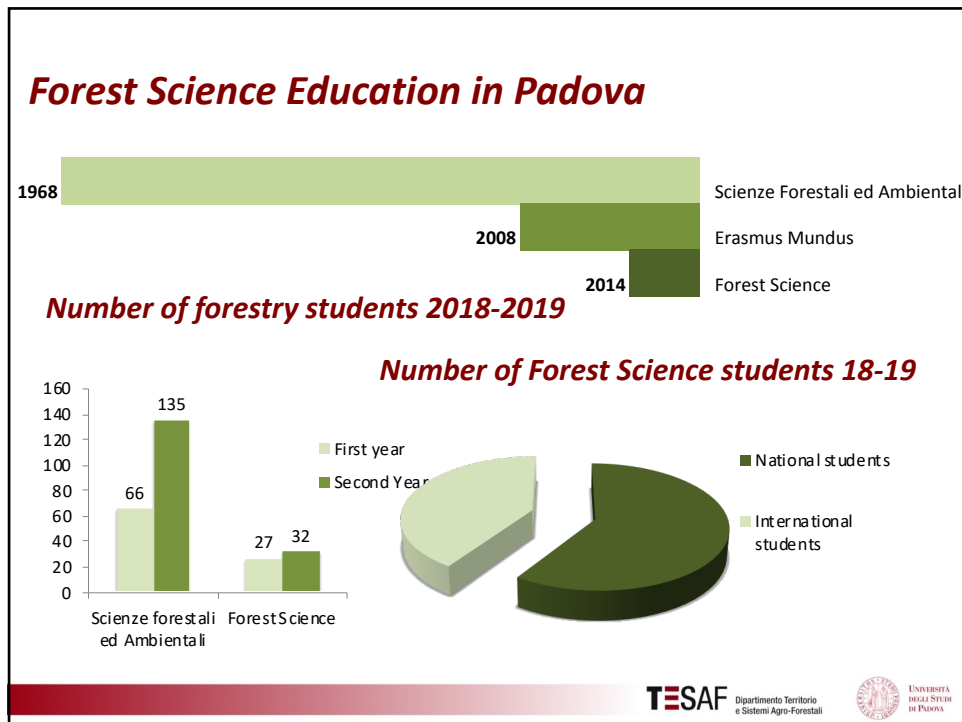
More than 5,800 species (5,300 herbaceous sp, 500 tree sp)
Europe: 7,500 specie



Boreal Coniferous forests
Alpine and Apennines pine forests
Mountainous beech forests
Mixed broadleaved forests with oak
Mediterranean evergreen forests

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Who are we ? Forest Science professors

Entomology, biodiversity, wildlife, pest management

Andrea Battisti, Lorenzo Marini, Lucio Montecchio, Maurizio Ramanzin, Tommaso Sitzia

Silviculture and forest management area, GIS


Mario Pividori, Marco Carrer, Emanuele Lingua, Thomas Campagnaro, Francesco Pirotti

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Who are we ? Forest Science professors


Hydrology, watershed management and geology




Marco Borga




Paolo Tarolli




Vincenzo D'Agostino



Omar Bartoli




Lorenzo Picco




Raffaele Cavalli

Forest operations


Forest economics and environmental governance




Paola Gatto




Mara Thiene




Davide Pettenella



Mauro Masiero




Riccardo Da Re





Raffaella Galasso

Communication skills



Laura Secco




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Academic calendar

- Start of first semester: Sept 30, 2019
- End of first semester: Jan 18, 2020
- Winter exam session: Jan 20 – Feb 29, 2020
- Start of second semester: Mar 2, 2020
- End of first semester: June 12, 2020
- Summer exam session: June 15 – July 18, 2020
- Late Summer exam session: Aug 17 – Sept 19, 2020

Some courses may have interims
 Graduations: June, July, September, October, December, February


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Class organisational issues

- Class timetable is organised in packed modules
- You are expected to attend classes: the course is based on active class participation – in several cases participation even contributes to the final grade

What does 'class participation' mean ?

- ask for clarifications, make comments, provide further insights, give examples of how the discussed topics relate to the specific context of your country, report your experience...
- work in pairs, in group during class hours, prepare presentations, discuss papers, open a discussion ...

Preparing for exams

Exams may take different forms: multiple choices, open questions, written essays, class presentations, projects, oral exams

How to prepare for an exam ?

1. Study carefully all the topics that the teacher has explained in class – your notes and the readings provided by the teacher integrate the teaching material
2. Make sure that you have grasped the underlying main concepts and ideas behind each topic and that you can present them in a structured way
3. When you sit an oral exam, the teacher will pose a question about a topic expecting that you can present/discuss the topic for at least some minutes
4. Study material as well as list of readings is provided through the Moodle website for each course

Exams grading system





Courses:





- Italian grading system is expressed in thirtieths $x/30$ and based on a continuous scale from **18/30** (pass) to **30/30** (excellent) up to 30/30 e lode ('with honours')
- For Erasmus Mundus students, local grades are converted into other partners' grades according to the specific agreement included in the Consortium Agreement (see Student's Handbook)

Communications skills, Intro to GIS, Research Planning, Guidelines to develop your Master thesis, Joint Field Modules, Directed studies, do not give grades but only pass/failed

for Medfor student only: grades will be provided on a merit qualitative scale ('insufficient', 'sufficient', 'good', 'very good' or 'excellent')

Exams conversion scale for MEDFOR

Spain	Italy	Portugal	Turkey*	
				
5-10 grading	18-30 grading	10-20 grading	0-4 grading	% grading
5,0	18	10	1	50
5,1	19	10	1	51
5,2	19	10	1	52
5,3	20	11	1	53
5,4	21	11	1	54
5,5	21	11	1	55
5,6	21	11	1	56
5,7	21	11	1	57
5,7	21	11	1	58
5,7	21	11	1	59
5,8	22	12	1,5	60
5,9	22	12	1,5	61
6,0	22	12	1,5	62
6,1	22	12	1,5	63
6,2	22	12	1,5	64
6,3	23	13	1,5	65
6,4	23	13	1,5	66
6,5	23	13	1,5	67
6,6	23	13	1,5	68
6,7	23	13	1,5	69
6,8	24	14	2	70
6,9	24	14	2	71
7,0	24	14	2	72
7,1	24	14	2	73
7,2	24	14	2	74
7,3	25	15	2,5	75
7,4	25	15	2,5	76
7,5	25	15	2,5	77
7,6	25	15	2,5	78
7,7	25	15	2,5	79

Spain	Italy	Portugal	Turkey*	
				
5-10 grading	18-30 grading	10-20 grading	0-4 grading	% grading
7,8	26	16	3	80
7,9	26	16	3	81
8,0	26	16	3	82
8,1	26	16	3	83
8,2	26	16	3	84
8,3	27	17	3,5	85
8,4	27	17	3,5	86
8,5	27	17	3,5	87
8,6	27	17	3,5	88
8,7	27	17	3,5	89
8,8	28	18	4	90
8,9	28	18	4	91
9,0	28	18	4	92
9,1	28	18	4	93
9,2	28	18	4	94
9,3	29	19	4	95
9,4	29	19	4	96
9,5	29	19	4	97
9,6	29	19	4	98
9,7	29	19	4	99
9,8	30	20	4	100
9,9	30	20	4	100
10,0	30	20	4	100

Exams conversion scale for SUTROFOR

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Accepting or rejecting an exam grade

- IF YOU FAIL AN EXAM, you will need to repeat it until you pass it
- If you are not satisfied with a grade received in an exam (you think you might improve it by studying more) you are allowed to reject a grade and re-sit the exam
- This should be an **exceptional strategy**, not a regular behaviour
be careful not to challenge too much the endurance of the teacher
- Consider the risk: once you reject a grade, this is 'lost' forever - you might perform worse the next time
- FIRST YEAR MEDFOR STUDENTS: Consider your special EM status: you are expected to sit and pass all your first year exams BEFORE leaving the first year institution, that means July at the latest (if not, you might have serious problems with your II year institution and with your grant)

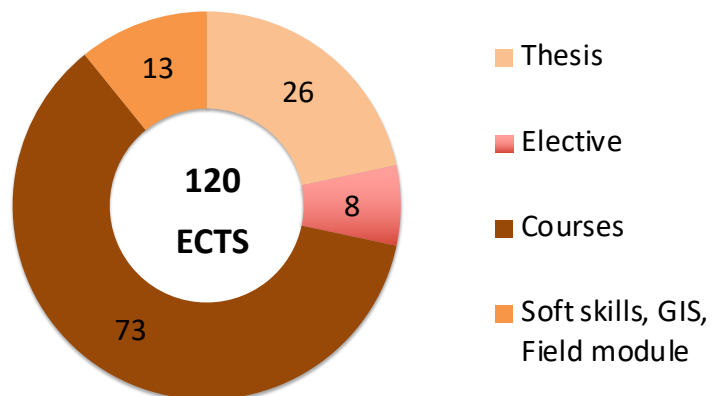
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*Other **important** issues for EM students*

1. According to the EU rules, during the period in which you receive a scholarship, you are not allowed to leave your university town, especially during exam sessions
2. Returning home during holidays (e.g. Christmas) is possible but should be communicated to the Consortium Secretariat
3. In exceptional cases, e.g. serious health problems, you should ask permission for going home and this might be granted but your scholarship might be stopped for the period
4. 2nd year students: If you do not succeed to get your degree by the December session (and therefore you postpone it to February or later), the University of Padova may claim from you the payment of an enrolment fee – about 500 euros

Course structure

2-years Master Degree



Curriculum Forest and Land Management FLM

Sustainable management, conservation and integrated valorisation of forests

Study Plan

Year 1

First semester (autumn-winter 2019)

Modules	ECTS
Forest policy for a bio-economy strategy	6
Forest ecology and management	11
Natural Disturbances ecology and management	6
Introduction to GIS	2
Communication skills	2

Second semester (spring-summer 2020)

Modules	ECTS
Insect ecology and management	6
Wildlife conservation and management	6
Forest pathology and wood alterations	6
Geology of Mountain Areas	6
Joint Field Module	4


Year 2

Third Semester (autumn-winter 2020)


Modules	ECTS
Forest transportation	9
Forest hydrology and erosion control	11
Mountain River Morphology and Restoration	6
Research planning	3
Guidelines to develop your master thesis	2

Fourth semester – thesis (26 CFU)

+ 8 CFU Elective courses



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MEDFOR – First year

FLM, with some differences

First semester (autumn-winter 2019)


Modules	ECTS
Forest policy for a bio-economy strategy	6
Forest ecology and management	11
Natural Disturbances ecology and management	6
Introduction to GIS	2

+ 6 ECTS Introduction to Mediterranean Forestry and Natural Resources (e-learning from UVA)
 + 9 ECTS Winter School at UVA from January 8th, 2020 to January 31st, 2020
 + 3 ECTS Research and project development – applications (e-learning from UniPD)


Second semester spring-summer 2020

Modules	ECTS
Insect ecology and management*	6
Wildlife conservation and management*	6
Forest pathology and wood alterations*	6
Integrated Watershed Management	6

* Students must choose 2 courses out of these 3



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Curriculum Forest and Nature for the Future FNF

Governance of forests and natural ecosystems in the context of international issues

Study Plan

Year 1

First semester (autumn-winter 2019)

Modules	ECTS
Trees and stands responses to the environment	6
Applied Silviculture and Forest Management	8
Reduced Impact Timber Harvesting	6
Introduction to GIS	2
Communication skills	2

Second semester (spring-summer 2020)

Modules	ECTS
Global change and forest ecosystems	7
Natura 2000 management	6
Biodiversity and Ecosystem Services in Forest	6
Integrated watershed management	6
Joint Field Module	4



Year 2

Third Semester (autumn-winter 2020)

Modules	ECTS
Forest policy, governance & conflicts: from global to local	8
Environmental resource valuation	6
Market-based instruments for Ecosystem Services	6
Social responsibility and certification	8
Research planning	3
Guidelines to develop your master thesis	2

Fourth semester – thesis (26 ECTS)

+ 8 ECTS Elective courses


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MEDFOR & SUTROFOR – Second year



FNF, with some differences

First semester (autumn-winter 2019)

Modules	ECTS
Forest policy, governance & conflicts: from global to local	8
Environmental resource valuation	6
Market-based instruments for Ecosystem Services	6
Social responsibility and certification	8
Research planning	3

Second semester spring-summer 2020

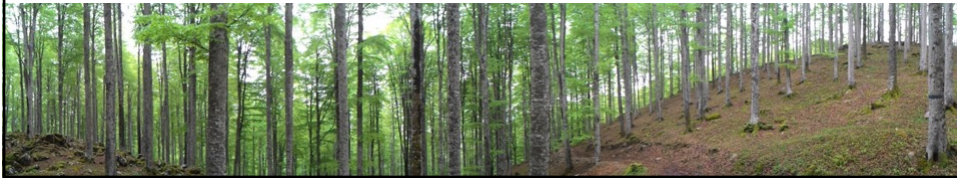
Thesis (26 ECTS) + Directed studies (4 ECTS)


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Elective courses 2019-2020 for 'regular' Forest Science students

- Special Topics in Forestry: Philosophy and practice of ecosystem management (6 ECTS)
- Industry and Community Project (6 ECTS)
- Climate change and forestry: monitoring and policies (6 ECTS, e-learning)
- Ecosystem Services Entrepreneurship: from ideas to business (6 ECTS, e-learning)



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The process of thesis preparation

- 26 ECTS for Thesis (+ 4 ECTS of Directed Studies for Mundus Students)
- 1 supervisor (among the teaching staff of the School) + 1 or even more co-supervisors
- Thesis oral defense with a Committee of at least five Uni PD academics
- 4 chances for graduation: sessions in June, July, September, October

Your final degree title: 'Master of Science in Forest Science'



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The process of thesis preparation

1. **ASAP**: identify a topic that you would like to deal with and choose the teacher connected to it (or choose a topic amongst the catalogue which some teacher already propose during class, now published at UniPd)
2. **By Christmas**: Discuss with the teacher the possible objectives, research questions, methodologies, outcomes and limitations of our idea or of the topic proposed by the teacher, **define a synopsis** under his/her guidance
3. During **field work** (March-June, July), **maintain direct and constant contact with your supervisor**: inform him/her of your progress, be active in pointing out the problems and limitations that you are encountering, and in proposing solutions
4. Always **submit your written work** for revision **well in advance**: remember that your supervisor needs time to go through it

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The process of thesis preparation

System of grades for graduation

- Italian graduation grading system is expressed in one-hundred-and tenths x/110
- The final graduation grade is obtained this way:
 1. The mean of your exam grades is calculated and then reported into one-hundred-and tenths

For example, if your exams grades are 26, 28, 30, 27 and 30 e lode, your mean is 28.2 – that is to say 103.4 in one-hundred-and tenths
 2. Then, some points are **added** according to the following criteria:
 - + 0.5 points for each 'lode'
 - + 1 point if your exam mean in 110 already exceeds 99
 - + 1 point if your degree is obtained not later than December of your II year
 - + 1 point if you student career includes periods abroad (at least three months)
 - + 0-4 points depending on the quality of your dissertation (decided by your supervisor)
 - + 0-2 points depending on the external reviewer's opinion (if the case)
 - + 0-2 points depending on the judgment of Thesis Defence Committee

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FIELD TRIPS: BE PREPARED



**Joint field Module in
Denmark and Sweden –
summer 2016**



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**Joint field Module in
Denmark and Sweden –
summer 2016**



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Other types of field activities



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More of other type of field activities



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TRANSFOR-M

TRANSatlantic FORestry Master
Transatlantic Degree partnership




A 2-year course-based Master program involving three Canadian Universities and five European Universities leading to **dual degrees** in forestry and environmental management

- Each student spends one year in Canada and one year in Europe
- Students pay tuition fees at their home institution
- Started in 2010 – involved 44 students so far, 24 from Canadian and 20 from European universities
- In 2019-20, UniPd has sent 4 students to Canada and received 4 students from Canada



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