Welcome to Nice.

MathMods 2013.

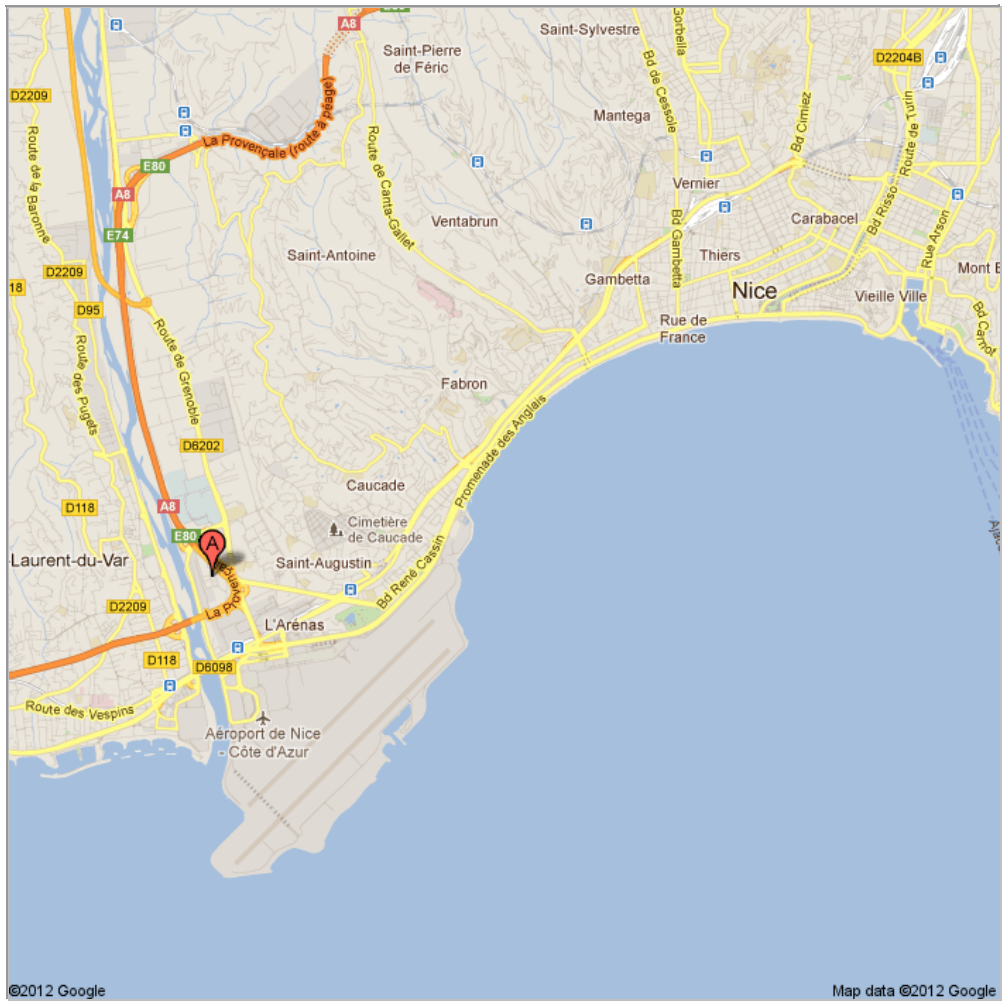
1. Gyamfi Atta Kwame *OK*
2. Marco Capo *OK*
3. Gabriela Cirtala *OK*
4. Tianyu Duan M *OK*
5. Mauricio Garcia Vergara *OK*
6. Dina Garmash *OK*
7. Marc Guirao *Enroute*
8. Olga Koval *OK*
9. Orest Mykhaskiv *Enroute*
10. Babajide Oyewole *OK*
11. Mahmoud Mohamed Reda Ahmed Elsawy *OK*

Welcome administratively

1. Confirm your registration to the university. First floor of building named “petit Valrose”
2. Apply for a residence permit for student
   (Carte de séjour étudiant),
   French administration for foreigners :
   “Préfecture des Alpes Maritimes”
3. Did you need French courses ? please let me know.

Préfecture des Alpes Maritimes

Google Maps http://maps.google.fr/maps?hl=fr&ie=UTF8&q=Préfecture+d...

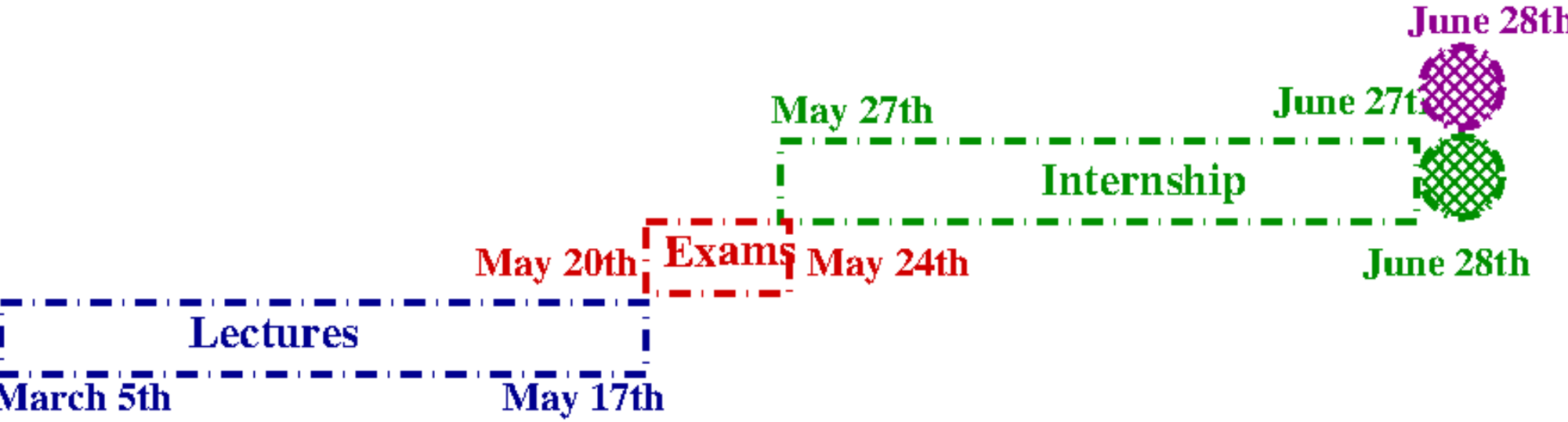


A. **Préfecture** des **Alpes Maritimes**
147 Route de Grenoble, 06286 Nice
04 93 72 20 00

Campus Valrose

Schedule of the semester

1. **Today March 4th** Welcome
2. **March 5th to May 17th** Lectures
3. **May 20th to May 24th** Final exams
4. **May 27th to June 27th** Internships.
5. **June 28th** Oral presentation of your Internship.
6. **June 28th** Graduations.



Schedule of a week

	Monday	Tuesday	Wednesday	Thursday	Friday
08H00 10H00		Finite Element **N. Gigli** *Salle MB/Bât. M*			Finite Difference/Volume **B. Nkonga** *Salle MB/Bât. M*
10H00 12H00		Finite Element **N. Gigli** *Salle MB/Bât. M*	Statistics **R. Diel** *Salle MB/Bât. M*	Optimization **B. Faugeras** *Salle MB/Bât. M*	Algorithm **B. Nkonga** *Salle MB/Bât. M*
14H00 16H00		Optimization **J. Blum** *Salle MB/Bât. M*	Seminars: Invited		
16H00 18H00			Finite Difference/Volume **B. Nkonga** *Salle MB/Bât. M*		

Seminars : 14H00-16H00

March 13th : Roland Masson (JAD Nice)

March 20th : Fabien Petitpas(IUSTI Marseille)

April 10th : Virginie Grandgirard (IRFM/CEA Cadarache)

April 17th : Stephane Lanteri (INRIA Sophia)

April 24 : Jeaniffer Vides (MdS, Paris : MathMods 2011)

May 15th : Antoine Bourgeade (CEA Bordeaux)

Evaluations

to be specified by each professor

General rule proposed :

1/3 Homeworks + 1/3 continuous controls + 1/3 Final exam

Schedule of final exams

To be defined.

May 27th to June 27th : Internship.

1. **Space time domain decomposition algorithms for multiphase porous media flows.** *Supervisor : R. Masson*
2. **Fast Methods for Mesh Intersection with Application to Semi-Lagrangian Method** *Supervisor : J. Blum.*
3. **Fast-Marching for 2D anisotropic Eikonal equation.** *Supervisor : B. Nkonga*
4. **Back and Forth Nudging for the estimation of the initial state of a system.** *Supervisors : J. Blum and D. Auroux.*
5. **Optimal Control for 1D Parabolic Problems : Linear Solvers** *Supervisors : J. Blum*
6. **Finite difference schemes for black-scholes equation.** *Supervisors : Nkonga*
7. **Shalow water model for the simulation of Roll waves.** *Supervisors : Nkonga*
8. **Shalow water model for the simulation of Hydraulic jump.** *Supervisors : Nkonga*

June 28th

Oral presentation of your Internship.
Graduations.