



## Mathilde HURAND

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Graduate Student  
Age : 25, Single.  
French Nationality.



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### Education & Diplomas

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- SEPT. 2004-  
TODAY      *Graduate Studies*      **University of Paris , Paris,  
Ecole Polytechnique, France**
- SEPT. 2005-  
TODAY      **PhD in Computer Science** Subject : design of efficient algorithms for both offline and online scheduling problems.
- SEPT. 2004-  
SEPT. 2005      **Master of Science** with reasearch mention in Fundamental Computer Science, with the "Algorithms" specialization. Ranked **third** out of fifty.
- SEPT. 2001-  
SEPT. 2004      *Student at the Ecole Polytechnique*      **Ecole Polytechnique  
Palaiseau, France**
- Three years of studies in the best French engineer school. Majored in September 2004, with the diploma of "Ingénieur de l'Ecole Polytechnique" (Master's degree).
- SEPT. 2003-  
AUG. 2004      Specialized Graduate Program in Computer Science and Bioinformatics. In-depth scientific research with two terms of major subjects.
- SEPT. 2001-  
SEPT. 2003      Undergraduate studies. General education focusing on multidisciplinary, in-depth scientific training, leadership training and developing students' awareness of the social environment.  
Engineer **Bachelor of Science** in September 2003.
- SEPT. 1999-  
JULY 2001-      *Undergraduate Studies*      **Lycée Pierre de Fermat  
Toulouse, France**
- Classes préparatoires aux Grandes Ecoles. Two years of undergraduate studies in advanced Physics, Mathematics and Chemistry, for the competitive entrance examinations to the French "Grandes Ecoles".
- JULY 1999      **High School Diploma** in Mathematics specialization, with honors and jury's felicitations.

### Publications

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- WAOA 2007**      Better bounds for incremental k-medians with Marek Chrobak
- RTSS 2007**      Fast Algorithms for Fault Tolerant Scheduling with Marek Chrobak and Jiri Sgall
- ESA 2006**      Finding total unimodularity in optimization problems solved by linear programs with Christoph Durr
- Journal of Theoretical Biology, 2005**      Life-history evolution and the origin of multicellularity with Richard E. Michod , Yannick Viossat, Cristian A. Solari, Aurora M. Nedelcu,

## Trainings & Internships

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- SEPT. 2007 Internship in Amadeus - Sophia-Antipolis. Design of a simulation tool to compare strategies to compute optimal prices for segments in a air-transit network. (using python and glpsol).
- SEPT. 2005-  
TODAY Assistant Teacher at the University of Paris Diderot ( Paris VII). I TA-ed the following courses : Java Project (coding a pacman 3D game in java), Internet and Tools ( xhtml, css, php, mysql), and Advanced Algorithms (master level).
- APRIL-  
SEPTEMBER 2005 Research Internship at the University of California, Riverside with Pr Marek Chrobak. Design and implementation of Fast Dynamic Programs for testing Fault Tolerance Scheduling.
- SEPT. 2004-  
SEPT. 2005 Assistant Teacher at the Ecole Polytechnique. Tutor in Computer Sciences.
- SEPT. 2004-  
JANUARY 2006 Oral examiner and tutor in Computer Science for undergraduate students at the Lycées Saint Louis and Charlemagne, Paris, France.
- APRIL-  
JUNE 2004 Research Internship at the University of Arizona. Modelisation using game theory and numerical simulation of the developpement of specialization in volvox green algae.
- JULY-AUGUST 2003 Intensive Language Internship in Russian, first in Novosibirsk and then in an ex-Sovkhoze in Siberia, Russia.
- SEPT. 2001-  
APRIL 2002 Field work as a french military officer, part of the Ecole Polytechnique's Leadership Training and Military formation. I served 8 monthes in a humanitarian association ATD fourth-world.

## Skills & Hobbies

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- LANGUAGES
- French : native speaker.
  - English : fluent.
  - Russian, Spanish : notions.
- COMPUTER SKILLS
- Mac OSX, Linux, Microsoft Office. . .
  - Intensive use of C++,Python, L<sup>A</sup>T<sub>E</sub>X, Java, HTML, Maple. . .
  - Video and photo editing.
- HOBBIES
- Sports : Hiking, Ski, Horseback riding, swimming. . .
  - Reading,music, cinema. . .