

LABORATORY OF DATA SCIENCE

Anna Monreale

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Room, timetable, teachers

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□ Room and Timetable

- Monday, room **Room M**, 9-11
- Tuesday, room **Room M**, 11-13

□ Teacher

□ **Anna Monreale**

- Computer Science Department, Room 374/DO
- Email: anna.monreale@unipi.it
- Office hours: **Wednesday 14:30-16:30**

□ Teaching Assistant

□ **Roberto Pellungrini**

- Computer Science Department, Room 384/DO
- Email: pellungrini@di.unipi.it
- Office hours: **Thursday 14:30-16:30**

Context

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- The DS Lab
 - is at the 1st semester, 2 year
 - is **compulsory** for Business Informatics
 - is a **lab course** of topics presented at:
 - 667AA: Programming for data science
 - 600AA: Decision Support Databases
 - 420AA: Data Mining I & II
 - requires knowledge of
 - computer programming
 - data warehousing
 - data mining

Module objectives

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- The DS lab presents technologies and systems for accessing heterogeneous **data sources**, building and populating **datawarehouses**, querying data **cubes**, extracting knowledge by **data mining**
- The accent is on **problem solving** and on the **technology** in support of the process. Theory is assumed from previous courses.
- Contents of the DS lab will demonstrate useful for the thesis or in industrial projects you will do in BI.

Teaching materials

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- Web page
 - <http://didawiki.di.unipi.it/doku.php/mds/lbi/>
 - news and links
 - slides & video-records of lessons
 - textbook chapters
- Software installed on PCs or can be downloaded
 - Anaconda 3 for programming
 - SQL Server 2016 for data warehousing
 - only client & dev tools needed
 - optional, server downloadable with MSDN-AA licence

Exam

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- Written part
 - ▣ Two mid-term exams ("compitini")
 - Lab tests
 - ▣ or normal exam
 - Lab test

- Oral part
 - ▣ discussion of written part plus open questions
 - ▣ optional oral session after second mid-term

Accounts & Mailing list

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- Send as soon as possible a mail to anna.monreale@unipi.it with the following data:
 - subject: "LDS"
 - text:
 - name
 - surname
 - student-id

- You will get:
 - an account on a database server of the course
 - included a mailing list of urgent news