Short CV (Jaak Vilo)

• Tallinna Reaalkool (2. Keskkool) 1984
• UTartu – Applied mathematics 1986-1991
• University of Helsinki: 1989/90; 1991-1999
• European Bioinformatics Institute 1999-2002
• PhD 2002, Univ. of Helsinki. /Pattern discovery/
• EGeen 2002 => Quretec 2006
• U. Tartu: docent, sen. researcher,
• Professor (from dec 2007)
• STACC
Short CV (Jaak Vilo)

1986
University of Tartu

1991
University of Helsinki

1999
EMBL-European Bioinformatics Institute, UK

2002
Estonian biobank, biotech, IT startups

2011
University of Tartu, professor 2007
Research

- Bioinformatics
- Data mining, Machine Learning, Visualization, ...
- Practical algorithms
- Data management and analysis

biit.cs.ut.ee

www.stacc.ee
Goals

• To learn the main concepts and techniques of the algorithm design and analysis – the practical skills and theoretical basis

• To be able to choose, (design,) analyze and compare algorithms and data structures

• To learn to learn, use, solve, read, write, and present
Contact hours

• **Lectures: Jaak Vilo**
  – Wed. 10-12 (403)
  – Thu. 10-12 (405)

• **Weekly practical sessions (homework):**
  – Wed 12-14 **Aivi Kaljuvee** (315)
  – Thu 12-14 **Oleg Šelajev** (403)
Contacts:

- Jaak Vilo – prof. of bioinformatics vilo@ ut.ee
- Aivi Kaljuvee aivi@ ut.ee
- Oleg Šelajev shelajev@ gmail.com
- ati.algorithmics@lists.ut.ee

- JV: Office hour (Monday 3-4pm); room 327
  – Other times: knock on door or when door open
- Upon agreement
Course and Grade

• Lectures
• Homework 30 + bonus points
• Project work 25
• Essay 10
• Exam 35
• Total 100p
Homework

• **Most essential part** of the course
• Obligatory to perform minimum 50% tasks
• **Presentations orally** during the practicals

• Submissions over the web
Essay

• Will be based on some article

• To be decided during the course

• Reading and writing skills

• A format of the scientific article (abstract, citations, etc)
Project

• A practical algorithm implementation development task plus analysis and comparisons of efficiency

• Presentation in form of a project report in scientific style

• Possibly presentations
Exam

• Will be based on questions similar to the homework assignments

• Knowledge of the basic principles of algorithms

• Creative use of the algorithms
Contact

• Lectures, practicals – active hours

• http://courses.cs.ut.ee/2010/algorithms

• Email (vilo @ ut.ee)
Questionnaire

• To assess the basic starting point and expectations before the course start

• Please fill in the form to the best of your ability as is during the next 30 minutes.