course *project*

advanced topics in *network science* (*ants*)

Lovro Šubelj & Jure Leskovec
University of Ljubljana
spring 2019/20
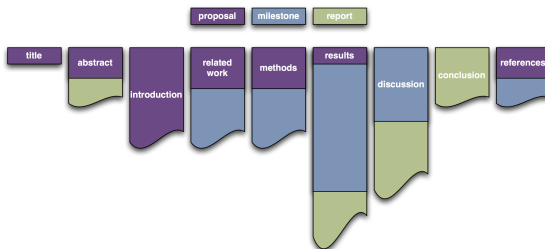
project *overview*

- — substantial *network science project*
- — networks *combined with PhD research*
- — *scientific paper submitted* (to arXiv.org)
- — project should go *beyond this course*

- — *analytical derivation* of *theoretical results*
- — *empirical evaluation* of *methods* or *models*
- — *design of novel methods*, *models* or *algorithms*
- — *scalable implementation* of existing *algorithms*

project *delivery*

- course *project delivery* breakdown
  - *reaction paper* and *project proposal*
  - *midterm project milestone report*
  - final *eight-page scientific paper*
- informal *project presentations* to get *feedback*
  - *proposal/milestone presentations* in front of *class*
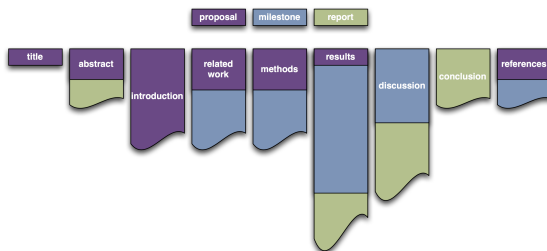 - *final presentation* in front of *INA students* (*seminar*)

project *proposal*

- *cover* component ($\leq$ *paragraph*)
  - project *title* and short *abstract*
- *introductory* component ($\leq$ *page*)
  - project *motivation* and *background*
  - *detailed* project *problem description*
- *reaction paper* component ($>$ *page*)
  - survey of existing *related work*
  - *critical evaluation* of existing work
  - highlight *strengths* and *weaknesses*
- *project proposal* component ($\leq$ *page*)
  - *detailed* project *proposal description*
  - proposed *methods* and expected *results*
  - highlight *value*, *novelty* and *feasibility*

project *milestone*

- *midterm project milestone*
- *at least* 50% of *research done*
- *at least* 50% of final *paper written*

project *deadlines*

- *hard-copy* in *submission box* (grading)
- *electronic version* to eUcilnica (archive)
- *cover sheet* with signed *honor code*

week	lectures	presentations	assignments
⋮	⋮	⋮	⋮
7		*proposal* (Apr 2nd)	
8			*proposal* (Apr 9th)
9			
10			
11	*advanced topics in*	*milestone* (Apr 30th)	
12	*network science*		*milestone* (May 7th)
13			
14			
15	*applications of*	*project* (May 28th)	
16	*network science*		*paper* (Jun 4th)
⋯			

- — *assignments* due on *Thursdays at 3:00pm*
- — *late days* expire on *Tuesdays at 3:00pm*
- — *presentations* on *Thursdays at 6:00pm*