

## Tasks from 1 to 4:

### My page (including inline queries):

My name is `[[name::Bartłomiej Bułat]]`. I am `[[age::23]]` years old. Currently I study applied informatics at AGH UST, faculty of electrical engineering.

I belong to group `[[group::group1700|17:00]]`. The other members of my group are:

```
{{#ask: [[Category::Students]] [[group::group1700]]
| ?name
| format=ul
}}
```

```
{{#ask: [[Category::Students]] [[group::group1700]]
| ?name
| ?age
| sort=age
| sort=name
| format=table
| default=nothing found
}}
```

```
[[Category:Students]]
```

### Subject page:

Lecture:

lead by: `[[lead by::prof Ligeza]]`  
room: `[[room::B1 121]]`  
duration: `[[duration::90]]` min

Laboratory:

lead by: `[[lead by::mgr Weronika T. Ardian]]`, `[[lead by::mgr Szymon Bobek]]` and `[[lead by::dr. Grzegorz J. Nalepa]]`  
room: `[[room::C3 201]]`  
duration: `[[duration::90]]` min

```
[[Category:University subject]]
```

## 6 Loki - Use Cases (Geographic Wiki)

### City page:

Gruszki is located in southern `[[located in::countries:poland|Poland]]`. It's beautiful villige where lives only nice (about `[[population:=100]]`) people .

```
[[category:city]]]]
```

### Country page:

Zimbabwe is `[[category:country]]` placed in southern `[[placed in::Africa]]`.

Area of the country is `[[area:=390757 km^2]]`,  
and population - `[[populacja:=12 521 000]]`.

## 7. Loki - Semantic Web Standards

```
<pl format="sparql">
PREFIX wiki: <>
SELECT ?title ?genre ?director
WHERE {
  ?movie category "movie".
  ?movie wiki:title ?title.
  ?movie wiki:genre ?genre.
  ?movie wiki:directed_by ?director.
  FILTER (?genre = "genres:SF" || ?genre = "genres:sci-fi").
}
ORDER BY ?title
</pl>
```

## 8. Loki - Reasoning

My recommendations. Movies by Milos Forman or Guy Ritchie or Drama Movies or Movies created before 1960.

```
<pl
goal="wiki_category(X,'movie'),wiki_attribute(X,'title',Y),merecommend
(X),write(Y),nl,fail" scope="*">
merecommend(X) :-
  wiki_relation(X,'directed_by','persons:milos_forman').
merecommend(X) :-
  wiki_relation(X,'directed_by','persons:guy_ritchie').
merecommend(X) :-
  wiki_relation(X,'genre','genres:drama').
merecommend(X) :-
  wiki_attribute(X,'production_year',Z),
  atom_number(Z,N),
  N =< 1960.
</pl>
```