To do

**Disertatie**

* Motion tracking pe video folosind particle filter
* Reprezentare omomorfica din 2D in 3D
* Stocarea motion-ului in fisiere care sa fie trimisa catre Unity

**Facultate**

* Referat Seminar DAI - **deadline 02.04**
* Basic-IR project - IR - **deadline sapt 8 - 09.04**
  + Doua componente:
    - Indexer:
    - Searcher
  + Fisiere de tip txt, doc, pdf.
  + Probleme de combatut:
    - Eliminare diacritice
    - Eliminare stop-words
    - Stemming pt limba romana
  + Stemmerul lucene e gandit pentru diacritice - trebuie vazut cand scot diacriticile
* Referat pentru LCM - **deadline sapt 10 - 22.04**
* Proiect Text Mining - Authorship Analysis - **deadline sapt 10 - 22.04**
* Proiect in Elixir DAI - **deadline 23.04**
* Proiect Semantica Computationala - **deadline sapt 10 - 25.04**

Crowd Behaviors simulation in games using neural networks

* Motion tracking pe baza de particle filter
* Reprezentare omomorfica - din 3 puncte 2D care stim cam cum arata in 3D, reproducem o scena 2D in una 3D.
* Exemple OpenCV si etc de la Standford, Harvard, etc. si paper-uri in drive-ul primit de la prof

Lite Renderer

* Fix the skybox vs text rendering order.
* Implement the orthogonal camera
* Inspect camera issue while moving using mouse

C++ learning path

1. “Data Structures” repo: implement data structures from scratch
2. “Data Structures” repo: override operators for every data structure.
3. Implement from scratch using only C++11/14/17
   1. Sockets - one-way, dual-communication, etc.
   2. Multithreaded applications
   3. Multi-process applications

What I want to learn

## Programming languages:

* C++
* Python
* JavaScript
* Haskell

## Frameworks & Libraries & Tools:

* Docker
* Django
* Angular
* OpenCV
* OpenGL
* Git

## Operating systems:

* Linux

## Programming areas and concepts:

* Networking
* Algorithms & Data Structures
* Machine Learning
* Deep Learning
* Natural Language Processing
* Functional Programming

**Facultate**

**Procesarea Limbajului Natural**

* ✔ Laborator 50% : nota 10
* Examen: 50%: trebuie minim 5

**Data Mining**

* Laborator 20%: Proiect de maxim 2 pct (anuntare: aprilie 2019)
* Examen 50%: minim 3/5

**Regasirea Informatiei**

* Proiect 100%: 2 proiecte (deadline sapt 7 si sapt 14 - minim 5 la fiecare)
  + 1 proiect de IR cu Lucene
  + 1 proiect de Text Mining cu Machine Learning

**Machine Learning**

* Laborator 1/3 : Test de laborator - minim 5/10
* Examen 2/3 : Lab + Examen > 5

**Programare Probabilista**

* Examen 100% : minim 5/10

**Proces Semn. Audio si Video**

* Examen 90% : minim 5.5/10

**Lingvistica Matematica si Computationala**

* Referat 100%
  + O tema din Computational Linguistic

**Text Mining**

* Proiect + Raport 100%
  + 1 proiect de Text Mining cu Machine Learning

**Semantica Computationala & Aplicarea in Regasirea Informatiei**

* Proiect 100%
  + 1 proiect de Dezambiguizare locala bazata pe cunoștințe

**Dezvoltarea Aplicațiilor Interactive**

* Proiect 40% - Elixir
* Referat 20% - Carte
* Prezenta la seminar 10%
* Examen 30%