Open Researcher Position  
(Application deadline September 30th, 2017)

MIDAS (Data Mining and Simulation) is a leading research group in Universidad Politécnica de Madrid focused on the application of computational techniques to several areas and fields, including data analytics, image processing and analysis and natural language processing.

The group is looking for a candidate with excellent skills in different aspects related with the areas carried by the group. The group is currently holding a set of European and Spanish projects mainly applied to biomedical domain.

We are opening a temporary position within the scope of project IASIS, in UPM Madrid (Campus de Montegancedo), Spain. The position is for ~ 2 years (ends October 2019), with a salary to be determined depending on the candidate profile. The position is open to PostDoc or research assistant with an outstanding profile in the field.

The topic of the position is:

“Natural Language Processing applied to knowledge acquisition in Electronic Health Records”

We are seeking for people holding a master in the areas of Computer Science, Health Sciences, Clinical Research, Health Services Research, and pertaining areas, with proven experience in Natural Language Processing (NLP). The candidate must have previous experience in fields relevant for the project, namely in NLP processing in the medical domain.

The general aim is to design tools and procedures enabling physicians to obtain early indicators of diseases. Particularly we will work on the oncology and neurological domain although this is still open.

The selected candidate will work directly with the research line coordinator and other researchers who are already working on the project. Our own NLP tool that has been developed in the past by the group will be used and improved.

The main requirements for the candidate are:

Mainly technical involvement in:

- NLP: Continuous development of our own NLP pipeline:
- Adaptation of the pipeline to process English documents.
- Inclusion of new models for acronym finding and disambiguation.
- Analysis of the pipeline for other languages (Spanish, French, German ...).
- Inclusion specific NERs: drug, oncology, dementia...
- Abstraction of the pipeline: creation of public services to consume new documents to be able to be adapted to any domain apart from medical domain
- Increment the capabilities of the pipeline by adding the possibility of extracting knowledge from different textual sources (not only EHR): publications, online texts ...

Administrative and group enrolment tasks:

- Proactivity in the participation of the different projects carried out by the group.
- Help in the administration and technical support of the projects: proposal writing, project meetings, etc.
- Mentoring of graduate students working in the lab (when applicable).

Other skills:

- Proactivity,
- Capability to work on multicultural, multilanguage work teams.
- English speaker
- Ability to communicate research results (orally and written)
- Ethic code (especially important due to the nature of the data).

Applicants should send a vita together with a motivation letter to Prof. Alejandro Rodríguez González. Accompanying reference letters will be positively evaluated.

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