2 PhD student positions available!

Announcement

Applications are invited for 2 fully funded PhD students to work with Prof. Gustau Camps-Valls on novel machine learning algorithms for Earth Observation and Geoscience data analysis. The positions are part of the project “Statistical Learning for Earth Observation Data Analysis” (SEDAL), funded by an European Research Council (ERC) Consolidator Grant 2015-2020. The successful candidates will be based in the Universitat de València, Spain. Prof. Camps-Valls is the coordinator of the Image and Signal Processing (ISP) group. The group is devoted to the development of machine learning and signal processing techniques for visual neuroscience, remote sensing image processing, and Earth observation data analysis. See the ISP group web page at: http://isp.uv.es.

Candidate profiles

We are searching for outstanding, highly motivated students with a Master in computer science, statistics, machine learning, electrical engineering, physics, or mathematics are encouraged to apply. All candidates should have a solid understanding and knowledge of machine learning and statistics, and being particularly interested in remote sensing and geoscience problems. The PhD theses topics will be devoted to:

- PhD #1: regression, model inversion and time series analysis;
- PhD #2: structure learning, feature ranking, graphical models, causal inference

The target geoscience and remote sensing applications are:

- Improved regression algorithms at local, regional, and global planeraty scales
- Structure inference and relevance determination of essential climate variables and observations

Good programming skills (Matlab/Python/R/C++), a critical and organized sense for data analysis, as well as maturity and commitment, strong communication, presentation and writing skills are a big plus.

Application in a nutshell

**Deadline:** Send your application no later than June 1st 2016.

- **How?** Send me: 2-pages CV, motivation letter, 3 best papers, 3 recommendation letters or contacts
- **When?** Preferred starting dates: September 2016
- **How long?** 3 years fully funded contract
- **Why?**
  1. Truly interdisciplinary project: machine learning + causal inference + climate/geo sciences
  2. Work in cutting-edge machine learning to tackle relevant, challenging societal problems
  3. Supervise outstanding students. Lecture in top EU master is possible, yet not mandatory
  4. Access to high performance computing facilities and clusters
  5. Very friendly, interactive and international working environment
  6. Salary according to UV scales + health insurance + travel money. Excellent cost-of-living index = 55
- **Where?** València, Spain: Beautiful mediterranean city, nice weather, excellent food, hike and beach
- **Ready to apply?** Send your dossier in one single PDF to gustau.camps@uv.es, subject: SEDAL application