

**For more information:**  
**Tiziana Cubeddu**  
**International cooperation and Mobility Programs Office**  
**tel. +39 070 675 8442**  
**email: [tcubeddu@amm.unica.it](mailto:tcubeddu@amm.unica.it) [bandi.internazionali@unica.it](mailto:bandi.internazionali@unica.it)**

**by Alexandra Radics**

**REF. N. 18\_18**

**Job Description:**

**Job title: 1 PhD position in COMPUTER SCIENCE**

**Name of Organisation:** Faculty of Science, Informatics Institute - University of Amsterdam (UvA)

**Country:** Netherlands

**City:** Amsterdam

**Main research fields:** Computer science

**Sub research fields:** Multimedia analytics, urban computing

**Application deadline: 08/05/2018 22:00 - UTC**

**Required Education:**

**Level:** Master degree

**Fields:** Computer science, artificial intelligence, data science, or a closely related area.

**Language skills:**

**Required languages:** English

**Level:** Good

**Required research experiences:**

- strong background in computer vision, statistics and machine learning;
- experience with deep learning programming frameworks (TensorFlow, Torch, PyTorch, Caffe, etc.);
- excellent programming skills in at least two of the following languages: Python, C, C++;

**Application details:**

**Job description:** This PhD position is part of a European project bringing together cities in the North Sea Region in addressing urban challenges. The position focuses on the analysis of large scale multimedia data (images, text, and metadata), in combination with open data (e.g. statistics on demographics, economy, and services), and participatory data, i.e. information contributed by citizens. Potential applications include analysing and improving city liveability, understanding citizen needs, and improving government services. To this end, the research in this project will build on e.g. deep learning methodologies that allow for the integration of multimodal information and aims to break new ground in multimedia analytics by:

- Developing innovative ways of fusing highly heterogeneous content;
- Facilitating interactive search and exploration in large multimedia collections;
- Translating relevant questions of societal importance into novel data science solutions.

Successful applicants will publish and present their research findings at international top-tier conferences and/or in leading journals; make significant contributions to advancing the state of the art in multimedia analytics. The educational plan will include attendance of courses, summer and/or winter schools, national and international meetings. The PhD candidate is also expected to assist in teaching of undergraduate students.

**Duration of job:** 4 years (initial employment is 18 months). Periodic evaluations will be held after 9 and 14 months, and upon positive evaluation, the appointment will be extended to a total of 48 months.

**Status:** Full-time

**Benefits:** 8% holiday allowance per year and the end of year allowance of 8.3%

**Salary:** Gross € 2.222 (first year) up to a maximum of gross € 2.840 (last year)

**Additional requirements:**

- enjoy working with real-world problems and real-world, large data sets;
- have excellent communication skills, both oral and written;
- enjoy working in a closely collaborating team.