

Jožef Stefan Institute (JSI) is the leading research institution for natural sciences in Slovenia with over 900 researchers within 25 departments working in the areas of computer science, physics, and chemistry and biology. The Artificial Intelligence Laboratory, with approximately 40 researchers, is one of the largest European research groups working in the areas of machine learning, data mining, language technologies, semantic technologies and sensor networks. Its key research direction is combining modern statistical data analytic techniques with more semantic/logic based knowledge representations and reasoning techniques with the purpose to make progress in solving complex problems such as text understanding, large scale probabilistic reasoning, building broad coverage knowledge bases, and dealing with scale. The team is a dynamic, young and international with the Institute located close to the city centre of Ljubljana. We are looking for bright, motivated and driven individuals and look forward to welcoming you to our team!

Two Early Stage Researchers (ESR) PhD Studentship in Marie Skłodowska-Curie ITN CLEOPATRA

CLEOPATRA, a Marie Skłodowska-Curie Innovative Training Network “Cross-lingual Event-centric Open Analytics Research Academy”, offers a unique interdisciplinary and intersectoral research and training programme in multilingual information science for 17 researchers. The main objectives are to 1) facilitate advanced cross-lingual processing of event-centric textual and visual information on a large scale; 2) develop innovative methods for efficient and intuitive user access and interaction with multilingual information; 3) facilitate large-scale analytics of multilingual event-centric information and cross-cultural studies; 4) educate a group of top-level scientists with unique interdisciplinary and intersectoral expertise in multilingual information science who will be enabled to take leading roles in research and industry in the future; and 5) establish an interdisciplinary curriculum for cross-lingual information analytics. The main outcomes of Cleopatra include: 1) novel methods for event-centric cross-lingual processing; 2) highly innovative user interaction paradigms for multilingual information; 3) open large-scale data sets and software components for a variety of EU languages; and 4) an interdisciplinary curriculum and educational materials. Overall, Cleopatra will contribute to the European digital economy in several application domains and strengthen the European position in multilingual information science.

Beneficiaries

Gottfried Wilhelm Leibniz Universitaet (Coordinator), Germany: www.uni-hannover.de

University of Southampton, UK, <http://www.southampton.ac.uk>

Rheinische Friedrich-Wilhelms-Universitaet Bonn, Germany: www.uni-bonn.de

Technische Informationsbibliothek, Germany: www.tib.eu

Jozef Stefan Institute, Slovenia: <http://www.ijs.si/ijsw/JSI>

Universiteit Van Amsterdam, Netherlands: www.uva.nl

Sveuciliste u Zagrebu Filozofski Fakultet, Croatia: <http://hnk.ffzg.hr/mt>

Partner organisations

Fundacao para a Ciencia e a Tecnologia, Portugal: www.fct.pt

Wolters Kluwer Deutschland, Germany: www.wolterskluwer.de

Jozef Stefan International Postgraduate School, Slovenia: www.mps.si

The British Library Board, UK: www.bl.uk

The National Archives, UK: www.nationalarchives.gov.uk

Ototext Ad, Bulgaria: www.ontotext.com

Slovenska Tiskovna Agencija, Slovenia: www.sta.si

Vico Research & Consulting, Germany: www.vico-research.com

Tilde, Latvia: www.tilde.eu

Job description: Two position available (each 36 months) at Jožef Stefan Institute in the following research projects

Position 1 (ESR 11)

WP 6: Event-centric cross-lingual analytics and cross-cultural studies
Research project: Information propagation with barriers

Objectives: Analyse cross-lingual news reporting bias along several dimensions: topic, language, geography, political orientation, source, sentiment, time, attention and some other contextual features

Expected Results: A model that facilitates tracking how the information about events spreads across languages, borders and cultures including the relations between barriers and the information spreading (e.g. delays, blocks, filters). Two journal submissions (Machine Learning) and a PhD submission are expected.

Planned secondments: 1. UoL, J. Winters, M11-M12, 2 months, to analyse requirements in the Digital Humanities. 2. BL, I. Cooke, M29-M31, 3 months, for adaptation and evaluation of the models in the context of archives.

Position 2 (ESR 12)

WP 6: Event-centric cross-lingual analytics and cross-cultural studies
Research project: Cross-lingual news reporting bias

Objectives: Analyse cross-lingual news reporting bias along several dimensions: topic, language, geography, political orientation, source, sentiment, time, attention and some other contextual features.

Expected Results: Models describing information consumption in different parts of the world and feature analysis with respect to bias. This project will produce two working papers (journal submissions to Machine Learning and/or Economics) and a PhD manuscript.

Planned secondments: 1. UvA, R. Rogers, M11-M12, 2 months, to analyse requirements in the Digital Humanities. 2. NA, J. Sheridan, M29-M31, 3 months, to adapt and evaluate models on archived collections

Requirements: We are looking for talented, creative and highly motivated researchers. A suitable background for this open position includes Data Engineering, Knowledge Engineering, Statistics, Signal Processing, Artificial Intelligence, Machine Learning and other related areas. Fluent written and spoken English and solid programming (C/C++/Python/R/Matlab) and sufficient data engineering skills (e.g. SQL, Hadoop or Spark) are required. Excellent skills in statistics, applied mathematics and data science are essential. Skills in news analysis are acknowledged. If separately asked from a candidate, a suitable English language proficiency test may be required.

- Candidates applying for the doctoral student position must hold Master's degree or equivalent in a relevant field and the recruited candidate is expected to enroll as a PhD student at the Jožef Stefan International Postgraduate School.

- Applicants shall, at the time of recruitment by the host organization, be in the first four years (full-time equivalent research experience) of their research careers and not yet have been awarded a doctoral degree. Full-Time Equivalent Research Experience is measured from the date when a researcher obtained the degree that would formally entitle him/her to embark on a doctorate.

- H2020 MSCA Mobility Rule: at the time of recruitment by the host organization, researchers must not have resided or carried out their main activity (work, studies, etc.) in the country of their host organization (Slovenia) for more than 12 months in the 3 years immediately prior to the recruitment date. Compulsory national service and/or short stays such as holidays are not taken into account.

Salary: The salary will be set in accordance with MSCA ESR rates. The monthly salary is subject to country coefficient rate.

Trial period: Trial period of 4 months applies.

For more information, please contact: Dr. Polona Škraba Stanič
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How to apply: Applications can be submitted via electronic application system and email by the 18th of January 2019. In case no suitable candidates are found in the first application round, the call will be re-opened.

The application should include the following annexes (if not clearly stated in the application form):

- Letter of motivation
- CV (including names and contact details of at least two references)
- Copy of MSc degree certificate
- List of publications