



**Research Openings at Telefónica Research in Madrid, Spain
(Research scientists, visiting professors, post-docs, interns).**

Areas: User Modeling, AI & Data Mining, Personalization, Business Intelligence. See website for specific openings in each area.

Telefónica Research in Madrid has several research openings at all levels in the new **Data Mining and User Modeling research group** (<http://research.tid.es/usermodeling>), which focuses on human-centered approaches to data analysis for customer modeling, personalization, and recommender systems. A special emphasis of the group is on principled data analysis taking transdisciplinary approaches that consider socio-cultural context and personal preferences. Research topics include the following (see website for details):

- **AI and Data Mining:** behavioural pattern recognition, social network analysis, interactive, online and visual data mining, machine learning for information extraction and integration, probabilistic, and model-based reasoning, ontology and knowledge representation, security and privacy aspects in the management of user data.
- **User Modeling:** acquisition, elicitation, representation, reasoning, and management of preferences, profiles, and user models (individual, group) in fixed and ubiquitous environments; cognitive, socio-cultural, and contextual modeling, social anthropology and ethnographic praxis design.
- **Personalization and recommendations:** individual, community, and task-oriented personalization of content, interfaces, and information access, intelligent approaches to automated product model/data extraction, algorithms for recommendation and their applications, configurable products, and mash-up configurations.
- **Human-Centered Business Intelligence:** optimization, business forecasting, planning, and trend-spotting, adaptive decision support, intelligent agents, analytical CRM (analysis of customer behaviour to aid product and service decision making).

Applicants should have a Ph.D. degree in Computer Science or a related field, a **strong publication record**, and experience in at least one of the areas above. Interdisciplinary background and interests and/or experience in social aspects of computing considered favorably (technology for developing regions, culture-aware computing, etc.). Successful candidates will be highly motivated, creative, dynamic, fluent in English, have excellent communication skills (written and oral), and be able to interact well in international, multidisciplinary, R&D teams. Knowledge of Spanish is not necessary.

Selected candidates are expected to publish in the top-ranked conferences and journals in the field, engage in open research collaborating with international academic partners, and actively participate in the research community (program committees and other activities), and in European (FP7), and other national and international projects. Selected candidates will work closely with other members of the research group and interact with engineering teams to contribute to solutions of real-world research problems.

Telefónica Research offers an internationally competitive salary and benefits package (flexible working schedule, Spanish classes, lunch subsidy, full medical coverage, etc.) in an international, dynamic work environment in Spain's largest and most international city. As one of the most important European capitals, Madrid offers a vast array of cultural activities, convenient international air connections and some of the best restaurants and nightlife in the continent.

Inquiries and applications should be sent to Dr. Alejandro Jaimes <ajaimes@tid.es> with the subject line "TID Research Application- Area" ("Area" should indicate one of the areas above). There is no application deadline: positions will be open until filled.

Telefónica is a world leader in the telecommunication sector, with presence in over 23 countries and over 218 million customer accesses (2007). Services offered by the Telefonica group include mobile & fixed line phone, ISP, IPTV, web portals, and others. Telefónica R&D is the innovation company of the Telefónica Group. Owned 100% by Telefónica, it was formed in 1988, with the aim of strengthening the Group's competitiveness through technological innovation. It is the most important private R&D company in Spain, in terms size, activities, resources, and participation in European Research projects.

<http://research.tid.es/usermodeling>