

4-year PhD Position

Topic: Biometrics based on Human-Machine Interaction

Biometric Recognition Group – ATVS, Escuela Politécnica Superior, Universidad Autónoma de Madrid, Spain

<http://atvs.ii.uam.es>

The **Biometric Recognition Group - ATVS** seeks a qualified candidate for a **PhD student position** (Spanish Ministerio de Economía y Competitividad, FPI-MINECO contract) in the field of **behavioral biometric recognition** including web-biometrics and human-technology interactions. The main aim of this PhD is to improve security and trustworthiness of **web-services** through user authentication based on the **human-machine interaction** and its cognitive fingerprint (in form of behavioral biometrics). The research includes new continuous authentication schemes based on keystroke dynamics, mouse movement, and other user-centric recognition technologies specifically developed for web scenarios and **smartphone interaction**.

We offer a **4-year contract** (expected start date is **third trimester 2016**) in our laboratory facilities at Universidad Autónoma de Madrid (Spain). The extent of this position is a maximum of 38 hours per week according to the Spanish Government PhD position rules. The gross salary of a PhD student, in accordance with the agreement for Spanish official PhD contracts is 16,422 €/year, and possible **bonus** (up to 6,000 €/year) depending of the candidate achievements. Additionally, the ATVS provides excellent opportunities for **professional and personal development, research stays** at the most competitive international research labs, **participation in top international conferences**.

About the ATVS Biometric Recognition Group

The group is **world recognized in biometric research** (e.g. organizers of the IAPR Intl. Conf. on Biometrics celebrated in Madrid, [ICB 2013](#)), actively collaborates with governments and industry including very successful **technology transfers** (e.g. Morpho, Telefonica, Spanish Ministry of Defense, or [Cecabank](#)), and regularly participates in **large EU projects** (e.g., BBfor2, [TABULA RASA](#), or [BEAT](#)). Some of our past PhD students are now **full time employees in research positions in Google (New York), Facebook (London), Microsoft (Redmond), or the European Commission**. The group has been recognized with several research distinctions in the last 10 years such as **3 PhD awards** from the [European Association on Biometrics](#) to former PhD students, and other prestigious awards to his permanent researchers such as a [Medal to Young Researchers](#) from the Spanish Royal Academy of Engineering and the [Miguel Catalan Research Award](#) from Comunidad de Madrid in 2015.

Candidate Requirements

The applicants must have a **MS degree in Mathematics, Computer Science, or Electrical/Telecommunications Engineering, or equivalent** (300 ECTS including the BS degree). Contact us for further details.

Applicants should have strong background in statistics, linear algebra, signal processing, C++ programming, Matlab and/or Python scripting languages, and good command of written/spoken English. Knowledge in machine learning and pattern recognition is an asset.

How to apply

Candidates will send an email (subject "PhD Position: CogniMetrics") with: 1) Letter of intent that describes your academic and career goals as well as research interests; 2) Curriculum Vitae; and 3) Academic Record. The candidatures should be e-mailed to: Dr. Julian Fierrez (julian.fierrez@uam.es) and Dr. Aythami Morales (aythami.morales@uam.es) **before May 15, 2016**.

