

Antonio Tapiador del Dujo

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Education

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| 2013 | PhD in Telematics Engineering (Distinction & European Mention) , Universidad Politécnica de Madrid, Spain
<i>Disertation:</i> A framework for building distributed social network websites. |
| 2003 | Telecommunication Engineer , Universidad Politécnica de Madrid, Spain. |
| 1998 | 1st and 2nd years in Civil Engineering , Universidad Politécnica de Madrid. Spain. |

Tecnologies

Developing in HTML, Javascript, CSS since 2002, Ruby on Rails since 2006.

Related technologies: ES6, Typescript, RubyGems, npm, yarn, gulp, Rspec, Jasmine, Protractor, Bootstrap, Sass, Less, Angular, Ember.js, Rxjs, RESTful APIs, Git, Github, Cordova, Meteor

Knowledge of a wide range of programming languages: Java, C, SQL, PHP, Prolog, Octave, Asm

System administration and DevOps since 2000: Debian, Ubuntu, bash, zsh, Ansible, Apache, nginx, Docker, LxC, PostgreSQL, MySQL, MariaDB, Redis, MongoDB, Nagios, Amazon S3, EC2, Cloudfront, Brightbox, Heroku, Jenkins, Travis CI, Semaphore, Postmark, New Relic

Solid knowledge of internet protocols: HTTP, TCP, UDP, IP, DNS, SMTP, TLS, OAuth

Human Languages

Native Spanish speaker

Proficient level of English

Initialized in Mandarin Chinese

Courses

2017	Machine Learning. Coursera. Stanford University
2017	Google Analytics Certification.
2016	Conflict management and resolution: communication skills and mediation techniques. Instituto Complutense de Mediación y Gestión de Conflictos, IMEDIA. Universidad Complutense de Madrid. 43 hours.
2013	Human-Computer Interaction. Coursera. UC San Diego
2013	Business Design & Lean Startup. Fundación Innovación y Diseño, Design-IT. 225 hours.
2013	Coaching and communication techniques for UPM teachers. Universidad Politécnica de Madrid, 10 hours.
2012	Practicum of the Initial formation of the faculty. ICE, Universidad Politécnica de Madrid. 120 hours.
2011	Initial formation of the faculty. ICE, Universidad Politécnica de Madrid. 120 hours. 420 hours.
2009	Network Science and Context Course. Universidad Politécnica de Madrid. 20 hours
2008	Introduction to Mandarin Chinese. Universidad Politécnica de Madrid. 24 hours.

Experience

2018 - current	Ideas4all Innovation Role: Senior developer, product development Description: As senior developer in Ideas4all Innovation, I have been bringing best practices and helping juniors to grow, from the point of view of my experience in high education. I have also applied lean design principles, both in software developing and our ecosystem, as well as in product development itself, from conducting interviews with users to participating in product design decisions. I have also applied machine learning techniques to improve our product capabilities
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2013 -
2017

Universidad Complutense de Madrid

Role: Researcher, senior developer and devops

Description: Researcher in the P2Pvalue project, where we built Teem, a tool for common based peer production communities.

I was the lead developer of Teem's frontend (AngularJS, Mobile Angular UI, Cordova), set up the continuous delivery framework of both backend and frontend (Github, Travis CI, Jenkins, Docker compose, LxC, Debian) and conducted lean design experiments to get feedback of the tool in many interviews with local communities in Medialab-Prado, Makespace Madrid and other community centers.

2002 -
2013

Universidad Politécnica de Madrid

Role: Researcher, Ph.D student and developer.

Description: During many years in the Technical University of Madrid, I investigated social network federation, security and privacy in social networks, digital identity and free / open source software

I was an active web developer, with the following contributions:

Lead developer of the Identity Manager, a free / open source alternative to Google Accounts, supporting OAuth2 server functionality, in the FIWARE project

Working experiments of OStatus federation among several social network platforms in the FI-CONTENT project

Lead developer of Social Stream, a Ruby gem for building any kind of social network website, used by several sites around the world. Besides, I published up to 27 Ruby gems and made contributions to the Rails core.

Developer of The Virtual Science Hub (ViSH), an open source e-Learning platform built on top of Social Stream. I gave support to the backend and developed Social Stream in parallel to fulfill the requirements of this and other social networks

Lead developer of the Virtual Conference Center (VCC), a web app for managing web conferences, made in Rails.

Development of a tunneling mechanism for supporting IPv6 multihoming and contributions to the IPv6 kernel stack in the USAGI project.

Grants

2007 - 2009	Fellowship for Ph.D fulfillment in the departments or institutes of the Universidad Politécnica de Madrid
2002 - 2007	Fellowship of collaboration with agreements, contracts or research projects. Universidad Politécnica de Madrid

Research Publications

Antonio Tapiador. **A framework for building distributed social network websites** . Ph.D Thesis. 2013.

Antonio Tapiador, Diego Carrera, Joaquín Salvachúa. **Social Stream, a social network framework** . Proceedings of International Conference on Future Generation Communication Technology (FGCT 2012). London, England. pp. 52-57. ISBN: 978-1-4673-5859-0.

Antonio Tapiador, Diego Carrera. **A survey on social network site's functional features**. Proceedings of IADIS WWW/Internet 2012. Madrid, Spain. pp. 133-140. ISBN: 978-989-8533-09-8

Alicia Díez, Antonio Tapiador. **Social Cheesecake: An UX-driven designed interface for managing contacts**. Proceedings of IADIS WWW/Internet 2012. Madrid, Spain. pp. 526-528. ISBN: 978-989-8533-09-8

Antonio Tapiador, Víctor Sánchez, Joaquín Salvachúa. **An analysis of social network connect services**. Proceedings of WEBIST 2012. Porto, Portugal. pp. 255-258. ISBN: 978-989-8565-08-2.

Antonio Tapiador, Antonio Mendo. **A survey on OpenID identifiers** . 7th International Conference on Next Generation Web Services Practices 2011. Salamanca. Spain. pp. 357-362. ISBN: 978-1-4577-1126-8

Antonio Tapiador, Joaquín Salvachúa. **Content Management in Ruby on Rails** . Proceedings of the IADIS International Conference on Collaborative Technologies 2011. Rome. Italy. ISBN: 978-989-8533-00-5

Víctor Sánchez, Antonio Tapiador. **Social network federation with Social Stream and Social2social** . Federated Social Web Europe 2011, Berlin, Germany.

Antonio Tapiador, Diego Carrera, Joaquín Salvachúa. **Tie-RBAC: an application of RBAC to Social Networks** . Web 2.0 Security and Privacy 2011. Oakland, USA.

Enrique Barra, Antonio Mendo, Antonio Tapiador, David Prieto. **Integral solution for web conferencing event management** . Proceedings of the IADIS International Conference e-Society 2011. Ávila, Spain. pp. 443-446. ISBN: 978-972-8939-46-5

Antonio Tapiador, Antonio Fumero, Joaquín Salvachúa, **Extended Identity for Social Networks** , Lecture Notes in Computer Science, 2011, Volume 6045/2011, pp. 162-168. DOI: 10.1007/978-3-642-16581-8_17

Enrique Barra, Antonio Mendo, David Prieto, Antonio Tapiador, Juan Quemada, **Resource Relationships in the design of collaborative Web applications** , Proceedings of IADIS Multi Conference on Computer Science and Information Systems, Freiburg, Germany, July 2010. ISBN: 978-972-8939-21-2

Antonio Tapiador, Antonio Fumero, Joaquín Salvachúa, Javier Cerviño. **Identidad Extendida en Redes Sociales** . VII Jornadas de Ingeniería Telemática JITEL 2008, Proceedings, Alcala de Henares - España. Septiembre 2008

Fridolin Wild, Steinn E. Sigurðarson, Stefan Sobernig, Christina Stahl, Ahmet Soylu, Vahur Rebas, Dariusz Górka, Anna Danielewska-Tulecka, Antonio Tapiador. **An Interoperability Infrastructure for Distributed Feed Networks** Proceedings of the 1st International Workshop on Collaborative Open Environments for Project-Centered Learning, COOPER-2007, Sissi, Lassithi - Crete Greece, 17 September, 2007. ISBN: 1613-0073

Antonio Tapiador, Antonio Fumero Joaquín Salvachúa, Sandra Aguirre. **A Web Collaboration Architecture** . Proceedings of the 2nd IEEE International Conference on Collaborative Computing: Networking, Applications and Worksharing. Atlanta, Georgia, USA. November, 2006. ISBN: 1-4244-0429-0

Sandra Aguirre, Joaquín Salvachúa, Juan Quemada, Antonio Fumero, Antonio Tapiador. **Joint Degrees in E-Learning Systems: A Web Services Approach**. Proceedings of the 2nd IEEE International Conference on Collaborative Computing: Networking, Applications and Worksharing. Atlanta, Georgia, USA. November, 2006. ISBN: 1-4244-0429-0

Sandra Aguirre, Joaquín Salvachúa, Juan Quemada, Antonio Fumero, Antonio Tapiador. **Desarrollo de Titulaciones Conjuntas en los Sistemas de E-Learning**. Proceedings of the 8th International Symposium on Computers in Education. León, Spain. October, 2006.

Antonio Fumero, Sandra Aguirre, Antonio Tapiador, Joaquín Salvachúa. **Next-Generation Educational Web**. Proceedings of the 12th International Conference on Concurrent Enterprising ICE2006 - Poster. Milan, Italy. June, 2006.

Joaquín Salvachúa, Sandra Aguirre, Antonio Fumero, Antonio Tapiador, Alberto Mozo, Juan Quemada **¿Como puede ser el E-learning 2.0?**. I Jornadas de Innovación Educativa. Zamora, España. June, 2006

Carlos Barcenilla, Antonio Tapiador, David Fernández, Omar Walid, Tomás de Miguel. **Implementation of an IPv6 Multihoming Ingress Filtering Compatibility Mechanism Using Automatic Tunnels** EUNICE 2005: Networks and Applications Towards a Ubiquitously Connected World. IFIP International Workshop on Networked Applications, Colmenarejo, Madrid/Spain, 6–8 July, 2005. pp. 59-73. ISBN: 978-0-387-30815-9

Antonio Tapiador, Tomás de Miguel, María J. Perea, Omar Walid, Marco Hernández, David Fernández. **A simple host centric solution for a network research multihoming environment.** Eunice 2004. Proceedings of 10th Open European Summer School and IFIP WG 6.3 Workshop, June 14-16, 2004. Tampere, Finland. pp. 49-52. ISBN: 952-15-1187-7

Conference Presentations

2014	The P2Pvalue project CAPS 2014 Conference Brussels, Belgium
2014	The P2Pvalue project Cooperland 2014 Vigo, Spain
2012	Social Stream, a social network framework International Conference on Future Generation Communication Technology (FGCT 2012) London, England
2012	A survey on social network site's functional features IADIS WWW/Internet 2012 Madrid, Spain
2011	A survey on OpenID identifiers 7th International Conference on Next Generation Web Services Practices Salamanca, Spain
2011	Social network federation with Social Stream and Social2social Federated Social Web Europe 2011 Berlin, Germany
2011	Tie-RBAC: an application of RBAC to Social Networks Web 2.0 Security and Privacy 2011 Oakland, USA
2011	Integral solution for web conferencing event management. IADIS International Conference e-Society 2011 Ávila, Spain
2008	Extended Identity for Social Networks

	Blogtalk 2008 Cork, Ireland
2008	Identidad Extendida en Redes Sociales VII Jornadas de Ingeniería Telemática JITEL 2008 Alcala de Henares, Spain
2006	A Web Collaboration Architecture 2nd IEEE International Conference on Collaborative Computing: Networking, Applications and Worksharing Atlanta, Georgia, USA
2004	A simple host centric solution for a network research multihoming environment Eunice 2004 Tampere, Finland.

Research Projects

2013 - 2015	P2PVALUE FP7-ICT-2013-10 <i>Contribution:</i> Design, implementation, validation and deployment of the platform for common based peer production communities
2011 - 2014	FI-WARE: Future Internet Core Platform FP7-2011-ICT-FI <i>Contribution:</i> Design and implementation of the Identity Manager, equivalent service to Google Accounts
2011 - 2014	Global Excursion – Extended Curriculum for Science Infrastructure Online FP7-INFRASTRUCTURES-2011-2, INFRA-2011-3.4 <i>Contribution:</i> Design and implementation of the social network engine, on top of which the virtual excursion platform was built
2011 - 2013	FI-CONTENT: Future Media Internet for Large Scale Content Experimentation FP7-2011-ICT-FI-284534 <i>Contribution:</i> Design, implementation and test of a federation mechanism among web platforms.
2012	Comunica media: use of video recording, screencast and videoconference in the classroom Innovative education project <i>Contribution:</i> Design and implementation of the class recording, screencast and videoconference system
2010	Cyberaula 2.0 Innovative education project

	<i>Contribution:</i> Design and implementation of the videoconference system
2008 - 2011	GLOBAL Linkage Over Broadband and Links FP7-INFRASTRUCTURES-2007-2, INFRA-2007-3.0-03 <i>Contribution:</i> Design and implementation of a videoconference web service
2006 - 2009	ECOSPACE, Integrated Project on eProfessional Collaboration Space FP6-IST-5-35208 <i>Contribution:</i> Research and design of APIs for the infrastructure interoperability in the collaboration framework space
2006 - 2009	ITECBAN Infraestructura Tecnológica y Metodología de Soporte para un Core Bancario <i>Contribution:</i> Design and implementation of part of the next generation bank infrastructure.
2006	Cyberaula Innovative education project <i>Contribution:</i> Design and implementation of the class videoconference and coordination system
2005 - 2008	ICAMP Innovative, Inclusive, Interactive & Intercultural Learning Campus FP6-IST-027168 <i>Contribution:</i> Research on interoperability of distributed systems.
2004 - 2007	PROLEARN IST FP6 Network of Excellence on Professional Training. <i>Contribution:</i> Maintenance of the infrastructure of the Excellence network
2002 - 2005	EURO6IX European IPv6 Internet eXchanges Backbone IST-2001-32161 <i>Contribution:</i> Design and implementation of a tunneling mechanism for multihoming in IPv6

Visiting Stays

2012	3 months stay in KU Leuven , participating in the project Security and Privacy in Online Social Networks (SPION)
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Teaching Experience

2015	Ethics, Law & Profession of Computer Science Course in Universidad Complutense de Madrid 30 hours
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2015	Interactive Systems Development Course in Universidad Complutense de Madrid 30 hours
2015	Multimedia Technologies and Interaction MSc Course in Universidad Complutense de Madrid 18 hours
2015	Language Processors Course in Universidad Complutense de Madrid 30 hours
2010 - 2011	Communications Software Course in Universidad Politécnica de Madrid 30 hours
2009 - 2010	Laboratory of Communications Software Course in Universidad Politécnica de Madrid 20 hours

Academic supervision

2017	Final Project in Computer Science, Universidad Complutense de Madrid. Alberto Miedes Garcés on Cooperative development of IT tools for direct democracy with calification of 10
2016	Google Summer of Code 2016. Prastut Kumar on Implementing a Hybrid recommendation sytem with a new onboarding experience to enhance UX for Teem.
2011	Final Project in Telecommunication Engineer, Universidad Politécnica de Madrid, Spain. Eduardo Casanova Cuesta on Design and implementation of private messaging system with notifications in a social network , with calification of 10 and distinction
2011	Final Project in Telecommunication Engineer, Universidad Politécnica de Madrid, Spain. Alicia Díez on Design of an interaction model with the suer for its application in a social network , with calification of 10 and distinction

Paper reviews

2016	Invited reviewer. Dyna Ingeniera E Industria
2011	Invited reviewer. European Journal of Information Systems

Organization Commitées

2015	Member of the Organizing Committee of the Researchers' Night 2015 event (H2020-MSCA-NIGHT-2014 #633161) The revolution of the commons-based peer production communities , Universidad Complutense de Madrid, Spain
2014	Member of the Organizing Committee of the Researchers' Night 2014 event (H2020-MSCA-NIGHT-2014 #633161) Create, Modify, Collaborate, Share , Universidad Complutense de Madrid, Spain
2009	Member of Organization in WWW 2009 , Madrid, Spain
2008	III Free software Conference in the Pilab (hacklab in Madrid)
2004	2nd free software meeting in the Pilab (hacklab in Madrid)
2004	Presentation Conference in the Pilab (hacklab in Madrid)

Awards

Special Accesibility Prize for Social Stream, VI Free Software University Contest. Oficina de Software Libre de la Universidad de Granada. 2013