

Alberto Lumbreras | CV

+33 634 266 794 • ✉ alberto.lumbreras@irit.fr
🌐 www.albertolumbreras.net • in albertolumbreras • 🐦 albertlumbreras
🌐 alumbreras

Personal information

Date and place of birth: April 4th 1981, Barcelona, Spain (Spanish nationality)

Education

PhD, Computer Science **2013–2016**
Université de Lyon 2 *Lyon*

Industrial PhD (CIFRE) in Technicolor R&D (Rennes).

Title : *Automatic Role Detection in Online Forums*

Advisors :

JOUVE, Bertrand (DR CNRS 41 & 53, FRAMESPA - U. Toulouse 2, Institut de Mathématiques de Toulouse),

VELCIN, Julien (HDR CNU 27, ERIC - U. Lyon 2),

GUÉGAN, Marie (Expert, Technicolor)

Jury :

BOUYEYRON, Charles (PR CNU 26, Président)

LATAPY, Matthieu (DR CNRS 6, Examineur)

KUNTZ-COSPEREC, Pascale (PR CNU 27, PR, U. de Nantes, Rapporteuse)

KALTENBRUNNER, Andreas (DR Eurecat, Digital Humanites Department and Social Media Research Group, Rapporteur)

Master, Artificial Intelligence **2009–2012**
Universitat Politècnica de Catalunya *Barcelona*

(2-year programme. Score : 7,69/10)

Master Thesis : *Towards Trust-Aware Recommender Systems*

Advisor : Ricard Gavaldà.

BSc, Telecommunication Engineering **1999–2005**
Universitat Politècnica de Catalunya *Barcelona*

(5-year programme)

Final Project : Expert System for incidence detection and correction in Grid nodes.

Supervisor : Rosa Badia (UPC - Barcelona Supercomputing Center), Antonio Abad (Telefónica Research)

Languages

French: fluent

Spanish: Native

English: fluent

Catalan: Native

Work experience

Posdoc Researcher **2016–**
Institut de Recherche en Informatique de Toulouse (IRIT) *Toulouse*
I work in the FACTORY project coordinated by Cédric Févotte. My current research is focused on Machine Learning and Bayesian Matrix Factorization.

Research Engineer **2010–2012**
Universitat Politècnica de Catalunya *Barcelona*
Laboratory for Relational Algorithmics, Complexity and Learning.

I developed and implemented algorithms and system prototypes for data mining, sentiment analysis and recommender systems. I also helped in the organization of workshops and conferences hosted by our research lab. I was also involved in technology transfer projects to help industrial partners in adapting the algorithms developed in the lab.

Research Engineer **2004–2010**
Telefónica Investigación y Desarrollo (Telefónica Research) *Barcelona*

I worked for 6 years in the research branch of Telefónica (multinational broadband and telecommunications provider) as a Research Engineer. As such, I have been involved in European research projects (founded by the FP7 program) as well as in internal research projects, mainly for the Internet and the Mobile divisions of the company. My tasks ranged from the design and implementation of algorithms to the writing of project proposals and coordination of small research teams in exploratory areas.

Teaching experience

Teaching.....

Vacataire **March-April-May 2016**
Université Paul Sabatier *Toulouse*

Systèmes d'information et applications Web (TP, 20h)
Web applications with PHP and MySQL.

Vacataire **March-April-May 2016**
IUT Paul Sabatier *Toulouse*

UML design with Modelio, Test-driven development with JUnit (TP, 18h)

Teacher **2000**
Epsilon Formación, <http://www.epsilon-formacion.com/> *Barcelona*

Elaboration and teaching of courses for first years students of Telecommunication Engineering (TD, 40h)

Master thesis supervision.....

Master's Thesis co-Supervisor (6 months) **2015**
Université de Lyon 2 – Technicolor *Lyon*

Master in Data Mining and Knowledge Management.

Co-supervised the Master's Thesis of Zara Alaverdyan at Technicolor, entitled "Language-based analysis in online forums" (supervisor : Julien Velcin).

Conferences and workshops organization

Dynamic Networks workshop **2016**
(Institut de Systèmes Complexes de Toulouse) *Toulouse*

http://isc-t.fr/language/fr/evenements/?event_id1=5

Hotel and trip reservation for invited speakers; communications (mailing, website announcements), agenda.

ECML-PKDD **2010**
<http://www.ecmlpkdd2010.org/index1f1e.html> *Barcelona*

Local logistics, reception and assistance for speakers during the conference.

Publications

- Chapitres : 1
- Journaux : 1
- Workshops internationaux : 2
- Conférences nationales : 1

Books.....

Toret J. (coord), Aguilera M., Aragón P., Calleja A. Lumbreras A., and Marín Ó. *Tecnopolítica y 15M : la potencia de las multitudes conectadas. Un estudio sobre la gestación y explosión del 15M*. Sociedad Red. Universitat Oberta de Catalunya Ed., 2015. Preprint edition : <http://tecnopolitica.net/sites/default/files/1878-5799-3-PB%20%282%29.pdf>.

Journals.....

Lumbreras A., Velcin J., Guégan M., and Jouve B. Non-parametric clustering over user features and latent behavioral functions with dual-view mixture models. *Computational Statistics*, 2016.

Conferences and Workshops (international).....

Lumbreras A., Lanagan J., Jouve B., and Velcin J. An insight into the analysis of roles in imdb. In *Complexity in social systems : from data to models*, 2013. http://complexity-in-social-systems.u-cergy.fr/?page_id=18 (Cergy).

Lumbreras A. and Gavaldà R. Applying trust metrics based on user interactions to recommendation in social networks. In *International Conference on Advances in Social Networks Analysis and Mining - ASONAM*, pages 1191–1196, 2012. [First International Workshop on Social Knowledge Discovery and Utilization (SKDU 2012)] <http://dl.acm.org/citation.cfm?id=2456888>.

(with proceedings)

Conferences and Workshops (national).....

Lumbreras A., Lanagan J., Velcin J., and Jouve B. Analyse des rôles dans les communautés virtuelles : définitions et premières expérimentations sur IMDb. In *Modèles et Analyses Réseau : Approches Mathématiques et Informatiques (MARAMI)*, pages 1–12, 2013. http://lipn.univ-paris13.fr/marami2013/MARAMI13/Programme_2.html.

Seminars and Posters.....

Lumbreras A. Dynamiques dans les forums de discussions online. In *Modélisation des Réseaux en Histoire (MOREHIST)*, 2015. <http://preview.tinyurl.com/morehist> [Workshop, Université Toulouse 2].

Lumbreras A. Methods and systems for clustering-based recommendations. <https://recherche.upc.edu/larca/en/news/seminar-by-alberto-lumbreras>, 2015. [Seminar at LARCA Lab, Universitat Politècnica de Catalunya, Barcelona].

Lumbreras A. Roles and dynamics of online conversations. <https://www.irit.fr/-Seminaires-IRIT-UPS,902-?evtid=238&evttpe=seminaire&lang=fr>, 2015. [Seminar at IRIT, Toulouse].

Lumbreras A. Dynamique des discussions dans les forums. <https://iscpif.fr/event/journee-interdisciplinaire-modelisation-des-interactions-temporelles/>, 2016. [Seminar at Institut des Systèmes Complexes de Paris].

Lumbreras A. An introduction to markov chain monte carlo. https://github.com/alumbreras/MCMC_intro, 2016. [Seminar at Technicolor, Rennes].

Lumbreras A., Guégan M., Julien J., and Jouve B. Clustering users features and latent behavioral functions. In *StatLearn*, 2015. <http://statlearn.sfds.asso.fr/statlearn15/> [Poster, Grenoble].

Toret J., Aguilera M., Lumbreras A., Aragón P., Linares J., and Marín Ó. Gestation of the 15m, devices and augmented events, network system, emergence and self-organization. evolution of the network system.

In *Digital culture, networks and distributed politics in the age of the Internet. From the Global Spring to the Net Democracy. Communication and Civil Society programme of the IN3 in Barcelona, Spain, in October 24-25, 2012.* <http://ictlogy.net/review/?p=3992>, Barcelona.