

## Luca Chiarandini

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## Work experiences

Yahoo! Research, Av. Diagonal 177, Barcelona, Spain

Sep 2010 – Nov 2012, Mar 2013 – now

### PhD Student at Universitat Pompeu Fabra – Research Intern at Fundació Barcelona Media/Yahoo! Research Barcelona

- Main responsibilities**
- Research in the field of social media, data mining, machine learning and human-computer interaction.
  - Research title: *Human-centered Exploration and Discovery of Content in Large Information Spaces*.
  - Participation to the “CENIT Social Media”, “Social Sensor”, “ARCOMEM” projects.

Google Inc., 1600 Amphitheatre Parkway, Mountain View, CA 94043, USA

Dec 2012 – Feb 2013

### Engineering Intern

- Main responsibilities**
- Development of a frontend application for understanding and debugging probabilistic models of user location.

Alta Scuola Politecnica, 32 Piazza Leonardo Da Vinci, 20133 Milano (Italy), <http://areeweb.polito.it/ricerca/purewings/>

Sep 2008 – Dec 2010

### Development and coordination of the “PureWings” project

- Main responsibilities**
- Sizing of a PhotoVoltaic/Hydrogen ground support system for general aviation. The system provides energy to an aircraft during the land operations. Economical study and business plan.
  - Relationship management with external institution (Levaldigi airport, Malpensa airport, DyneTek, ...) and coordination and collaboration in a 10-people team.

Politecnico di Milano, 32 Piazza Leonardo Da Vinci, 20133 Milano (Italy), <http://www.polimi.it/>

Jan 2010 – Jul 2010

### Development of a recommendation system based on Music Information Retrieval features

- Main responsibilities**
- Development of the system from the idea to the product.
  - Digital Signal Processing, numerical analysis, Music Information Retrieval, and feature extraction.
  - Development of a real-time audio system.
  - Autonomous working and scheduling.

Alta Scuola Politecnica – Politecnico di Milano, 32 Piazza Leonardo Da Vinci, 20133 Milano (Italy), <http://www.asp-poli.it/>

Sep 2008 – Dec 2010

### Student representative

- Main responsibilities**
- Organization and coordination among the students and school staff.
  - Communication and interaction skills with international students.
  - Alta Scuola Politecnica Board member.

Private customer, <http://www.matteobasta.it/>

2008 - 2010

### Design and production of the internet site <http://www.matteobasta.it/>

- Main responsibilities**
- Graphical web design and user-centered development (PHP and MySQL).
  - Requirements analysis and specifications.

Antonveneta Assicurazioni S.p.A., 1 Largo Ugo Irneri, 34123 Trieste (Italy)

Jan 2008 – Jul 2008

### Information system design and production

- Main responsibilities**
- Work experience in the company.
  - Creation of a insurance information system B2C/B2B for on-line generation of quotes and purchase of insurance policies.
  - Security and privacy management.

## Other activities

<https://www.centrodeinnovacionbbva.com/en/pages/29293-winners>

Dec 2013

### BBVA Innova Challenge 2013 International Competition

- Details**
- Winner of the 1<sup>st</sup> prize in the category “customer apps” (15000€).
  - Winner of the 2<sup>nd</sup> prize in the category “visualization” (10000€).

<http://2012.euhackathon.eu>

Jun 2012

### “eyeTime”: Winner of the 1st prize in the "Safety" track at the EUHackaton 2012 @ Brussels (5000€)

<http://www.version1.europeana.eu/web/api/hack4europe>

Jun 2011

### Creation of “Timebook”: Winner in the category "Audience Award" at Europeana Hackaton 2011 @ Barcelona

[http://wiki.musichackday.org/index.php?title=Barcelona\\_Hacks](http://wiki.musichackday.org/index.php?title=Barcelona_Hacks)

Sep 2010

### Winner of the SònarPro prize at MusicHackDay 2010 @ Barcelona

Clinton Global Initiative, 1301 Avenue of the Americas ,37th Floor, New York, NY 10019-6022, <http://www.cgiu.org/meetings/2010>

Apr 2010

### Commitment-maker at 2010 Clinton Global Initiative Meeting

**Main responsibilities**

- Study of a sustainable hydrogen-fed ground support system for general purpose airports.

<http://www.accenture.com>; [http://archiviostorico.corriere.it/2010/maggio/06/Politecnico\\_premia\\_migliori\\_laureati\\_co\\_7\\_100506015.shtml](http://archiviostorico.corriere.it/2010/maggio/06/Politecnico_premia_migliori_laureati_co_7_100506015.shtml)

Jan 2010

### Winner of the "Accenture" scholarship

Start Cup, 1 Piazzale Europa, 34127 Trieste (Italy), <http://www2.units.it/~startcup>

Jul 2008

### Winner of the first phase of the StartCup Trieste Competition (1500€) – Team leader of the "Polysound" project

**Main responsibilities**

- Design of a pseudo-random music generator based on aleatory music.
- Business plan writing, economic and organization planning.
- PHP and databases skills.

2002 – 2006

### Webmaster of the internet site <http://www.liceo-oberdan.it> and student group coordinator

**Awards**

- "Creatività" scholarship from "Assessorato all'Istruzione, Politiche dei Disabili e Promozione Sport" of Provincia di Trieste.
- Provincia di Trieste prize for best school website.

2000 – 2006

### Artistic director, music composer and arranger, piano and violin player in theatrical performances

**Performances**

- "Aggiungi un posto a tavola" brought on the stage by Liceo Scientifico "G. Oberdan" of Trieste.
- "Torna a casa Tomaso" brought on the stage by "La Barcaccia" di Trieste.
- "Il Principe Rospo" brought on the stage by "La Barcaccia" di Trieste.

## Skills

- Orchestral/piano/quartetto composition and arrangement.
- Team coordination as well as independent working.
- Programming (C++, .NET, Java, Python, MATLAB, Visual Basic, Visual Studio Tools for Office, Hadoop Pig), Web desing and development (HTML5, CSS3, Javascript, PHP, Django, Flash), Database Management Systems (MySQL, MsSQL, DB2).
- Graphical editing (Photoshop, Illustrator).
- Audio editing (Cubase, Pro Tools, Sibelius, FL Studio) and musical composition and performance systems (Sibelius, Finale).
- Music Information Retrieval and digital signal processing.
- Economics background and planning techniques, aimed towards the management of innovation.

## Education and training

<b>Alta Scuola Politecnica</b>	2010
<b>Master of Science in Computer Engineering</b> at Politecnico di Torino (110/110 cum laude)	2010
<b>Master of Science in Computer Engineering</b> at Politecnico di Milano (110/110 cum laude)	2010
<b>TOEFL Test</b> (108/120) [Reading: 29, Listening: 29, Speaking:23, Writing:27]	2004
<b>Bachelor of Science in Computer Engineering</b> at Università degli Studi in Trieste (110/110 cum laude)	2008
<b>Scientific High School Diploma</b> (100/100)	2005
<b>Cambrige Certificate in Advanced English</b>	2004
<b>Diploma in Composition</b> at Conservatorio di Musica "Giuseppe Tartini" in Trieste	2003
<b>Violin school student</b> at Conservatorio di Musica "Giuseppe Tartini" in Trieste	1996-2001

Languages	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
<b>English</b>	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user
<b>German</b>	Proficient user	Proficient user	Basic user	Basic user	Basic user
<b>Italian</b>	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user
<b>Spanish</b>	Proficient user	Basic user	Basic user	Basic user	Basic user
<b>Catalan</b>	Basic user	Basic user	---	---	---

(\*) Common European Framework of Reference for Languages

## List of publications

- Luca Chiarandini, Luca Maria Aiello, Neil O'Hare, Alejandro Jaimes, *Metro: Exploring Participation in Public Events*, SocInfo 2013
- Silviu Maniu, Neil O'Hare, Luca Aiello, Luca Chiarandini, Alejandro Jaimes, *Search Behaviour on Photo Sharing Platforms*, ICME 2013
- Luca Chiarandini, Przemyslaw Grabowicz, Michele Trevisiol, Alejandro Jaimes, *Leveraging Browsing Patterns for Topic Discovery and Photostream Recommendation*, ICWSM 2013
- Peter Haider, Luca Chiarandini, Ulf Brefeld, Alejandro Jaimes, *Contextual Models for User Interaction on the Web*, ECML 2012
- Peter Haider, Luca Chiarandini, Ulf Brefeld, *Discriminative Clustering for Market Segmentation*, KDD 2012
- Luca Chiarandini, Pancho Tolchinsky, Alejandro Jaimes, *PRISMA: Searching Images in Parallel*, ACM Multimedia 2012
- Luca Chiarandini, Alejandro Jaimes, *Browsing-Based Content Discovery*, DIS 2012
- Michele Trevisiol, Luca Chiarandini, Luca Maria Aiello, Alejandro Jaimes, *Image Ranking Based on User Browsing Behavior*, SIGIR 2012
- Luca Chiarandini, Michele Trevisiol, Alejandro Jaimes, *Discovering Social Photo Navigation Patterns*, ICME 2012
- Luca Chiarandini, *Exploration and Discovery of User-generated Content in Large Information Spaces*, WSDM 2012 - Doctoral Consortium
- Eduardo Graells, Meekal Bajaj, Luca Chiarandini, Pancho Tolchinsky, Alejandro Jaimes, Brian Theodore, *Yahoo! Clues Visualization Widgets*, Yahoo! TechPulse 2011
- Peter Haider, Luca Chiarandini and Ulf Brefeld, *Behavioral User Models for Yahoo! News*, Yahoo! TechPulse 2011
- Luca Chiarandini, Massimiliano Zanoni and Augusto Sarti, *A System for Dynamic Playlist Generation Driven by Multimodal Control Signals and Descriptors*, MMSP 2011

## Patents

- Michele Trevisiol, Luca Aiello, Luca Chiarandini and Alejandro Jaimes, *User Behavior Models Based on Source Domain*, Yahoo! Inc 2012.

## Participation to conferences

<b>Mobile World Congress</b>		24 - 27 Feb 2014	Barcelona, Spain
<b>ACM Multimedia 2013</b>	Volunteer	21 - 25 Oct 2013	Barcelona, Spain
<b>SocInfo 2013</b>	Demo paper	25 - 27 Nov 2013	Kyoto, Japan
<b>CIKM 2013</b>	External reviewer	27 Oct - 1 Nov 2013	San Francisco, USA
<b>ICWSM 2013</b>	Full paper	8 - 11 Jul 2013	Boston, USA
<b>ACM Multimedia 2012</b>	Short paper	29 Oct - 2 Nov 2012	Nara, Japan
<b>ECML – PKDD 2012</b>	Workshop paper	24 - 28 Sep 2012	Bristol, UK
<b>WebVisions Event Barcelona</b>		4 - 7 Jul 2012	Barcelona, Spain
<b>2<sup>nd</sup> Digital Agenda Assembly</b>		21 - 22 Jun 2012	Brussels, Belgium
<b>Designing Interactive Systems 2012</b>	Demo presentation	11 - 15 Jun 2012	Newcastle, UK
<b>MuseumNEXT 2012</b>	Speaker	23 - 25 May 2012	Barcelona, Spain
<b>34th European Conference on Information Retrieval</b>	Volunteer	1 - 5 Apr 2012	Barcelona, Spain
<b>5<sup>th</sup> ACM International Conference on Web Search and Data Mining</b>	Doctoral consortium paper	8 - 12 Feb 2012	Seattle, USA
<b>5<sup>th</sup> International AAAI Conference on Weblogs and Social Media</b>	Volunteer	17 - 21 Jul 2011	Barcelona, Spain