

Curriculum Vitae et Studiorum

Luca Pappalardo

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1 Personal Info

Name: Luca
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2 Employment

Sep 2014 – now: postdoc fellow at Department of Computer Science, University of Pisa, Italy.

Research topics: developing of spatio-temporal generative models of human mobility; developing of community detection algorithms for dynamic networks; investigation of the patterns of success in individual and team sports (cycling, soccer, rugby).

Jan 2011 – now: research associate at Institute of Information Sciences and Technologies (ISTI), National Research Council (CNR), Pisa, Italy.

Research topics: human mobility analysis with Big Data sources (mobile phone data, GPS vehicular tracks), developing of an analytical framework to nowcast well-being using Big Data.

Jan 2014 – Aug 2014: research fellow at Institute of Physics, Budapest University of Technology and Economics (BME), Hungary.

Research topics: human mobility analysis with large-scale mobile phone data in order to profile individuals according to their mobility patterns.

Jan 2011 – Dec 2014: PhD student in Computer Science with fellowship at Galileo Galilei doctoral school, University of Pisa, Italy.

3 Education

2011-2014: PhD in Computer Science, Department of Computer Science, University of Pisa, Italy. PhD thesis: “*Human Mobility, Social Networks and Economic Development: a Data Science perspective*” (available here: <http://bit.ly/2k7Dsyu>).

Supervisors: prof. Dino Pedreschi, dott.sa Fosca Giannotti.

Reviewers: prof. János Kertész, prof. Bart Goetals

2007-2010: Master degree in Computer Science with honours, University of Salerno, Italy. Master thesis: “*ScoreWiiEVER: un visualizzatore di partiture musicali diretto da Nintendo Wiimote*”.

Supervisor: prof. Roberto de Prisco.

2008-2009: Erasmus Project, Universidad Rey Juan Carlos de Madrid, Móstoles, Spain.

1996-2007: Master degree in Piano and Music, Conservatory of Music of Salerno, Italy.

2002-2007: Bachelor degree in Computer Science, University of Salerno, Italy.

Other education experiences:

2017: School on Network Science, January 15-18, 2017, Tel Aviv, Israel. <http://www.netscix2017.com/>.

2016: International School on Network Science, May 31-31, 2016, Seoul, South Korea. http://netsci2016.net/school_program.php.

2014: Second School on Complex Networks (ECCS Warm-up), September 19-21, Lucca, Italy. <https://eccswarmup.wordpress.com/>.

2014: International School on Network Science, May 19-23, 2014, Balatonfüred, Hungary. <http://www.futurict.szte.hu/hu/summer-school>.

2012: Second Summer School on Privacy-Aware Social Mining, July 1-6, Leysin, Switzerland. <http://mss2012.modap.org/>.

2011: Lipari School on Computational Social Science, July 16-23, 2011, Lipari, Italy. <http://bit.ly/2136MUu>.

2011: Bertinoro International Spring School, Bertinoro, Italy. <http://www.bici.eu/biss2011/>.

2010: Erasmus Intensive Programme (IP) “Interdisciplinary Approaches to Microarray Data Analysis”, Marina di Ascea (Salerno), Italy. <http://bit.ly/2134kNK>.

4 Grants and Awards

Best Paper Award

paper: L. Pappalardo, S. Rinzivillo, F. Simini, “Human Mobility Modelling: exploration and preferential return meet the gravity model”.

conference: “ABMTRANS: The 5th International Workshop on Agent-Based Mobility, TRaffic and Transportation Models Methodologies and Applications”.

ISTI Young Researcher Award 2016

award to the best young researcher (< 32 y.o.) at the Institute of Information Sciences and Technologies (ISTI) of National Research Council (CNR) of Italy.

ISTI Young Researcher Award 2014:

award to the best young researcher (< 32 y.o.) at the Institute of Information Sciences and Technologies (ISTI) of National Research Council (CNR) of Italy.

Grant for Young Mobility 2013

grant for international collaborations of young researchers, by the Institute of Information Sciences and Technologies (ISTI) of National Research Council (CNR) of Italy.

Google-ISTAT grant 2014:

grant by Google and the Italian National Statistics Bureau (ISTAT) that awards the most innovative projects on the usage of Big Data sources to monitor phenomena of public interest.

Project awarded: L. Pappalardo, D. Pennacchioli, “Measuring well-being with social diversity, human mobility and purchase behavior”.

<http://www.istat.it/it/archivio/144042>

MODAP student scholarship: scholarship by the European research project MODAP to attend the summer school on Privacy-Aware Social Mining, Leysin, Switzerland.

PhD student fellowship:

grant by the National Research Council (CNR) of Italy covering the period Jan 2011 – Dec 2013.

Erasmus project grant:

grant by the Erasmus project to attend Universidad Rey Juan Carlos de Madrid during the period Sep 2008 – Feb 2009.

5 Scientific activity

5.1 Participation in European projects

- **[SOBIGDATA 2015-2018]**, H2020 research infrastructure, grant agreement 654024. The SoBigData project aims at creating the “Social Mining & Big Data Ecosystem”: a research infrastructure which provides an ecosystem for scientific discovery and advances social mining applications about several social phenomena that can be represented through Big Data.
- **[CIMPLEX 2015-2018]**, FET Proactive, grant agreement 641191. CIMPLEX (Bringing CITizens, Models and Data together in Participatory, Interactive Social EXploratories) is a European project aimed at developing computational models to predict the diffusion of epidemics and other types of contagion in complex systems.
- **[DATASIM 2012-2015]**, FET Open, grant agreement 270833. DATASIM (DATA science for SIMulating the era of electric vehicles) is a European project with the purpose of developing data-driven micro-simulation models of human mobility.

5.2 Academic visits

- **July 2016 – August 2016:** visiting fellow at BarabasiLab, Center for Complex Network Research (CCNR), Department of Physics, Northeastern University, Boston, MA, USA.
Faculty host: prof. Albert-László Barabási.
Objective: analysis of sports performance to understand the links between performance and success of soccer players.
- **March 2016:** visiting fellow at BarabasiLab, Center for Complex Network Research (CCNR), Department of Physics, Northeastern University, Boston, MA, USA.
Faculty host: prof. Albert-László Barabási.
Objective: developing of a mathematical model to simulate the performance of players during soccer games.
- **Jan 2016 – Feb 2016.** visiting fellow at BarabasiLab, Center for Complex Network Research (CCNR), Department of Physics, Northeastern University, Boston, MA, USA.
Faculty host: prof. Albert-László Barabási.
Objective: developing of a mathematical model to simulate the performance of players during soccer games.
- **Jan 2014 – Aug 2014:** visiting fellow at Center for Network Science (CNS), Central European University (CEU), Budapest, Hungary.
Faculty host: prof. János Kertész

Objective: analysis of large-scale mobile phone data in order to profile individuals according to their mobility patterns.

- **Aug 2013 – Sep 2013:** visiting fellow at Departamento de Informática, Pontifícia Universidade Católica do Rio de Janeiro, Brazil.
Faculty host: prof. Marco Antonio Casanova.
Objective: analysis of the mobility patterns of social communities with mobile phone data and location-based social network data.
- **May 2013 – July 2013:** visiting fellow at BarabasiLab, Center for Complex Network Research (CCNR), Department of Physics, Northeastern University, Boston, MA, USA.
Faculty hosts: prof. Albert-László Barabási, Dr. Filippo Simini.
Objective: developing of a generative model to capture the spatial mechanisms of human mobility.
- **Oct 2012 – Dec 2012.** visiting fellow at BarabasiLab, Center for Complex Network Research (CCNR), Department of Physics, Northeastern University, Boston, MA, USA.
Faculty hosts: prof. Albert-László Barabási, Dr. Filippo Simini.
Objective: developing of a generative model to capture the spatial mechanisms of human mobility.

5.3 Talks and seminars

Invited

- Invited talk at *SIS2017*: Intermediate Scientific Meeting of the Italian Statistical Society, June 28, 2017, Florence, Italy.
Title: “Mobility diversity and economic development”.
<http://meetings2.sis-statistica.org/index.php/sis2017/sis2017/index>
- Invited talk at *Urban Systems and Network Science*: satellite meeting of NetSci2017: International School and Conference on Network Science, June 19, 2017 Indianapolis, USA.
Title: “Nowcast well-being with mobile phone data”
<http://humnetlab.mit.edu/netsci2017/>
- Invited talk at *Quantifying Success*, satellite meeting of NetSci2016: International School and Conference on Network Science, May 31, 2016 Seoul, South Korea.
Title: “Is sports success predictable?”.
<http://www.quantifysuccess.org/netsci2016/>

Contributed

- Ignite talk at *NetSciX2017*: International School and Conference on Network Science, Jan 15-18, 2017, Tel Aviv, Israel.

Title: “Linking technical performance, perceived performance and popularity in soccer”.

<http://bigdatalab.tau.ac.il/netsci/program.pdf>

- Talk at *CESS2016*: Conference of European Statistics Stakeholders, Oct 20-21, 2016, Budapest, Hungary.
Title: “Nowcasting well-being in societies: at the crossroads of big data, network science, and complex systems”.
http://www.ksh.hu/cess2016/session_d7.html
- Talk at *CompleNet2015*: The 6th Workshop on Complex Networks, Mar 25-27, 2015, New York City, USA.
Title: “Characterizing the Heterogeneity of Human Mobility ranges”.
http://2015.complenet.org/CompleNet_2015/Program.html
- Talk at *SEBD2014*: 22th Italian Symposium on Advanced Database Systems, June 16-18, 2014, Sorrento, Italy.
Title: “Mining efficient training patterns of non-professional cyclists”.
<http://www.sebd2014.unina.it/>
- Talk at *SEBD2014*: 22th Italian Symposium on Advanced Database Systems, June 16-18, 2014, Sorrento, Italy.
Title: “The patterns of musical influence on the Last.Fm social network”.
<http://www.sebd2014.unina.it/>
- Talk at *DSAA2014*: The First International Conference on Data Science and Advanced Analytics, Oct 30-Nov 1, 2014, Shanghai, China.
Title: “The Purpose of Motion: Learning Activities from Individual Mobility Networks”.
http://datamining.it.uts.edu.au/conferences/dsaa14/?page_id=28
- Talk at *ECCS2014*: European Conference on Complex Systems, Sep 22-26, 2014, Lucca, Italy.
Title: “Sociality, Mobility and Wealth indicators: a study in France based on big mobile phone data”.
http://www.eccs14.eu/images/IMT/ECCS14_Final_Program.pdf
- Talk at *CompSysS2013*: Complex Systems Symposium at BRICS Countries Congress (BRICS-CCI) and 11th Brazilian Congress (CBIC) on Computational Intelligence, Sep 8-11, 2013, Porto de Galinhas, Brazil.
Title: “Comparing general mobility and mobility by car”.
<http://brics-cci.org/brics-cci2013/technical-program-of-symposia/>
- Talk at *ASONAM*: The 2012 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining, Aug 26-29, 2012, Istanbul, Turkey.
Title: “How well do we know each other?”: detecting ties strength in multidimensional social networks”,
<http://asonam.cpsc.ucalgary.ca/2012/Files/Program-ASONAM2012-final.pdf>

Poster presentation

- *NetMob2017*:
Title: “PyMobility: an open-source Python package for simulating human mobility”
<http://netmob.org/>
- *NetSciX2016*: International School and Conference on Network Science, Jan 11-13, 2016, Wroclaw, Poland.
Title: “Network-based performance indicators for football teams”.
http://netsci-x.net/?page_id=412
- *SIS2016*: 48th Scientific Meeting of the Italian Statistical Society, 2016.
Title: “Using purchase market behavior to estimate collective well-being”.
http://www.unisa.it/uploads/14046/boa_sis2016.pdf
- *SML2012*: Spring Workshop on Mining and Learning, Apr 18-20, 2012, Bad Neuenahr, Germany.
Title: “Understanding the patterns of car travel”.
<https://dtai.cs.kuleuven.be/static/events/SML12/index.php>

5.4 Organizer

- **Quantifying Success** (forthcoming)
NetSci’17 satellite meeting, June 20, 2016, Indianapolis, USA.
<http://www.quantifysuccess.org/netsci2017/>
- **DAPS 2016**: *1st International Workshop on Data Mining for the analysis of Performance and Success*
co-located with The IEEE International Conference on Data Mining (ICDM), Dec 12, 2016, Barcelona, Spain.
<http://kdd.isti.cnr.it/daps2016/index.php/program-committee/>
- **Data Beers Tuscany** meetings
 - Teatro Cinema Lux, Pisa, Jan 12, 2017;
 - Villa Vittoria, Florence, co-located with Big Data Tech 2016.<http://databeerstus.tumblr.com/>

5.5 Program Committee member

- *Quantifying Success*: NetSci’17 satellite meeting, June 20, 2016, Indianapolis, USA. <http://www.quantifysuccess.org/netsci2017/>
- *ALLDATA2017*: The Third International Conference on Big Data, Small Data, Linked Data and Open Data, Apr 23-27, 2017, Venice, Italy. <http://www.iaria.org/conferences2017/ALLDATA17.html>

- *ABMTRANS2017*: The 6th International Workshop on Agent-based Mobility, Traffic and Transportation Models, Methodologies and Applications, co-located with ANT2017: The 8th International Conference on Ambient Systems, Networks and Technologies, May 16-19, 2017, Madeira, Portugal. <http://abmtrans.eu/>
- *ANT2017*: The 8th International Conference on Ambient Systems, Networks and Technologies, May 16-19, 2017, Madeira, Portugal. <http://cs-conferences.acadiau.ca/ant-17/#programCommittees>
- *MLSA2016*: Machine Learning and Data Mining for Sports Analytics, co-located with ECML/PKDD, Sep 19, 2016, Riva del Garda, Italy. <https://dtai.cs.kuleuven.be/events/MLSA16/programcommittee.php>
- *DSS2016*: The 2nd International Workshop on Data-driven Self-regulating Systems, co-located with SASO: 10th IEEE International Conference on Self-Adaptive and Self-Organizing Systems, Sep 12, 2016, Augsburg, Germany. <http://dss2016.inn.ac/#pc>
- *SocInfo2016*: 8th International Conference on Social Informatics, Nov 14-17, 2016, Bellevue, USA. <http://usa2016.socinfo.eu/organizing-committee/>
- *DyNo2016*: 2nd International Workshop on Dynamics in Networks, co-located with ASONAM2016: The 2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining, Aug 18-21, 2016, San Francisco, USA. <http://kdd.isti.cnr.it/dyno/?q=node/4>
- *EUSPN-2016: The 7th International Conference on Emerging Ubiquitous Systems and Pervasive Networks*, 26-29 Sep, 2016, London, UK. <http://cs-conferences.acadiau.ca/euspn-16/program-committees.html>
- *DyNo2015*: 1st International Workshop on Dynamics in Networks, co-located with ASONAM2015: The 2015 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining, Aug 25-28, 2015, Paris, France. <http://kdd.isti.cnr.it/dyno/?q=node/7>
- *CSS15*: Computational Social Science Satellite workshop 2015, Sep 28-Oct 2, 2015, Tempe, USA. <http://cssworkshop.oii.ox.ac.uk/>

5.6 Review activity

- Data Mining and Knowledge Discovery (3)
- Pervasive and Mobile Computing (2)
- Computer Communications (2)
- EPJ Data Science (2)
- International Journal of Data Science and Analytics (2)

- PLoS One (1)
- Scientific Reports (1)
- Entropy (1)
- Data (2)
- IEEE Transactions on Knowledge and Data Engineering (1)
- Annals of Operations Research (1)
- Engineering (1)
- UbiComp: ACM International Joint Conference on Pervasive and Ubiquitous Computing (1)
- ANT: International Conference on Ambient Systems, Networks and Technologies (2)
- ABMTRANS: International Workshop on Agent-based Mobility, Traffic and Transportation Models, Methodologies (2)
- DAPS: International Workshop on Data Mining for the Analysis of Performance and Success (4)
- SOCINFO: International Conference on Social Informatics (2)
- INFOCOM: IEEE International Conference on Computer Communications (1)
- MLSA: Machine Learning and Data Mining for Sports Analytics (1)
- DSS: International Workshop on Data-driven Self-regulating Systems (1)

Please, visit by Publons page for a certification of my reviews: <https://publons.com/author/478476/luca-pappalardo#profile>.

6 Publications

6.1 Journals

- [1] L. Pappalardo, F. Simini, S. Rinzivillo, D. Pedreschi, F. Giannotti, A.-L. Barabási, Returners and Explorers Dichotomy in Human Mobility, *Nature Communications*, 6:8166, doi: 10.1038/ncomms9166, 2015
- [2] L. Pappalardo, M. Vanhoof, L. Gabrielli, Z. Smoreda, D. Pedreschi, F. Giannotti, An analytical framework to nowcast well-being using mobile phone data, *International Journal of Data Science and Analytics (JDSA)*, doi:10.1007/s41060-016-0013-2, 2016.

- [3] L. Pappalardo, S. Rinzivillo, Z. Qu, D. Pedreschi, F. Giannotti, Understanding the patterns of car travel, *The European Physical Journal (EPJ) Special Topics*, vol. 215 (1), pp. 61-73, Springer, doi:10.1140/epjst/e2013-01715-5, 2013.
- [4] G. Rossetti, L. Pappalardo, D. Pedreschi, F. Giannotti, Tiles: an online algorithm for community discovery in dynamic social networks, *Machine Learning*, doi:10.1007/s10994-016-5582-8, 2016.
- [5] S. Marchetti, C. Giusti, M. Pratesi, N. Salvati, F. Giannotti, D. Pedreschi, S. Rinzivillo, L. Pappalardo, L. Gabrielli, Small Area Model-Based Estimators Using Big Data Sources, *Journal of Official Statistics (JOS)*, vol. 31(2), pp. 263-281, doi:10.1515/jos-2015-0017, 2015.
- [6] G. Rossetti, L. Pappalardo, Riivo Kikas, Dino Pedreschi, Fosca Giannotti, Marlon Dumas, Homophilic network decomposition: a community-centric analysis of online social services, *Social Network Analysis and Mining (SNAM)*, 6:103, doi:10.1007/s13278-016-0411-4, 2016.

6.2 Articles in conference Proceedings

- [7] L. Pappalardo, F. Simini, Modelling the spatio-temporal patterns of human mobility, *Data Mining and Knowledge Discovery*, sotto revisione.
- [8] P. Cintia, M. Coscia, L. Pappalardo, The Haka Network: Evaluating Rugby Team Performance with Dynamic Graph Analysis, *Dyno: The Second International Workshop on Dynamics in Networks*, to appear, 2016
- [9] L. Pappalardo, S. Rinzivillo, F. Simini, Human mobility modelling: exploration and preferential return meet the gravity model, *Proceedings of ABMTRANS 2016: the 5th International Workshop on Agent-based Mobility, Traffic and Transportation Models, Methodologies and Applications*, Madrid, Spain, doi:10.1016/j.procs.2016.04.188, 2016
- [10] L. Pappalardo, The origin of heterogeneity in human mobility ranges, *Proceedings of the Workshops of the EDBT/ICDT 2016 Joint Conference*, EDBT/ICDT Workshops 2016, Bordeaux, France, March 15, 2016.
- [11] G. Rossetti, L. Pappalardo, S. Rinzivillo, A novel approach to evaluate community detection algorithms on ground truth, *Proceedings of the 7th Workshop on Complex Networks (CompleNet2016)*, Dijon, France, doi:10.1007/978-3-319-30569-1_10, 2016

- [12] L. Pappalardo, Z. Smoreda, D. Pedreschi, F. Giannotti, Using Big Data to study the link between human mobility and socio-economic development, Proceedings of the 2015 IEEE International conference on Big Data (IEEE BigData 2015), Santa Clara, CA, USA, doi:10.1109/BigData.2015.7363835, 2015.
- [13] P. Cintia, L. Pappalardo, D. Pedreschi, F. Giannotti, M. Malvaldi, The harsh rule of the goals: Data analytics and football team success, Proceedings of the 2015 IEEE International Conference on Data Science and Advanced Analytics (DSAA'15), Paris, France, doi:10.1109/DSAA.2015.7344823, 2015.
- [14] G. Rossetti, L. Pappalardo, R. Kikas, D. Pedreschi, F. Giannotti, M. Dumas, Community-centric analysis of user engagement in Skype social network, In Proceedings of the 2015 IEEE/ACM International Conference on Advances in Social Network Analysis and Mining (ASONAM'15), Paris, France, doi:10.1145/2808797.2809384, 2015.
- [15] P. Cintia, S. Rinzivillo and L. Pappalardo A network-based approach to evaluate the performance of football teams, Machine Learning and Data Mining for Sports Analytics – ECML/PKDD 2015 workshop.
- [16] S. Rinzivillo, L. Gabrielli, M. Nanni, L. Pappalardo, D. Pedreschi, F. Giannotti, The Purpose of Motion: Learning Activities from Individual Mobility Networks, In Proceedings of the 2014 International Conference on Data Science and Advanced Analytics (DSAA'2014), Shanghai, China, doi:10.1109/DSAA.2014.7058090, 2014.
- [17] P. Cintia, L. Pappalardo, D. Pedreschi, “Engine matters”: a first large scale data driven study on cyclists’ performance. Proceedings of the 2013 IEEE 13th International Conference on Data Mining workshops, Dallas, USA, doi:10.1109/ICDMW.2013.41, 2013.
- [18] D. Pennacchioli, G. Rossetti, L. Pappalardo, D. Pedreschi, F. Giannotti, M. Coscia, The Three Dimensions of Social Prominence, 5th International Conference on Social Informatics (SocInfo), doi:10.1007/978-3-319-03260-3_28, 2013.
- [19] L. Pappalardo, F. Simini, S. Rinzivillo, D. Pedreschi, F. Giannotti, Comparing general mobility and mobility by car, BRICS Countries Congress (BRICS-CCI) and 11th Brazilian Congress (CBIC) on Computational Intelligence, doi:10.1109/BRICS-CCI-CBIC.2013.116, 2013.
- [20] L. Pappalardo, G. Rossetti, D. Pedreschi, How well do we know each other?: Detecting tie strength in multidimensional social networks, In Proceedings of the IEEE/ACM International Conference on Advance in Social Network Analysis and Mining (ASONAM'12) Workshops 2012, pp. 1040-1045, doi:10.1109/ASONAM.2012.180, 2012.

- [21] P. Cintia, L. Pappalardo, D. Pedreschi, Mining efficient training patterns of non-professional cyclists, 22th Italian Symposium on Advanced Database Systems (SEBD), 2014.
- [22] D. Pennacchioli, G. Rossetti, L. Pappalardo, D. Pedreschi, F. Giannotti, M. Coscia, The patterns of musical influence on the Last.Fm social network, 22th Italian Symposium on Advanced Database Systems (SEBD), 2014.
- [23] L. Pappalardo, G. Rossetti, D. Pedreschi, Measuring tie strength in multidimensional social networks, 21th Italian Symposium on Advanced Database Systems (SEBD), 2013.
- [24] L. Pappalardo, S. Rinzivillo, D. Pedreschi, F. Giannotti, Validating general human mobility patterns on GPS data, 21th Italian Symposium on Advanced Database Systems (SEBD), 2013.

6.3 Book chapters

- [25] L. Pappalardo and F. Giannotti, Capire la mobilit attraverso i Big Data, in Tempo di Cambiare: rapporto 2015 sulle migrazioni interne in Italia, Donzelli editore, ISBN: 9788868434076, 2015.
- [26] C. Kopp, B. Kochan, M. May, L. Pappalardo, S. Rinzivillo, D. Schulz, F. Simini, Evaluation of Spatio-temporal Microsimulation Systems, in Data Science and Simulation in Transportation Research, Chapter 8, pp. 141-166, Davy Janssens, Ansar-Ul-Haque Yasar, Luk Knapen (eds.), Hershey, USA: IGI global, 2014.
- [27] F. Giannotti, L. Pappalardo, D. Pedreschi, D. Wang, A complexity science perspective on human mobility, in Mobility Data – Modeling, Management, and Understanding, Chapter 15, pp. 297-313. Chiara Renso, Stefano Spaccapietra, Esteban Zimanyi (eds.), New York, USA: Cambridge University Press, 2013.
- [28] L. Spinsanti, M. Berlingerio, L. Pappalardo, Mobility and geosocial networks, in Mobility Data – Modeling, Management, and Understanding, Chapter 16, pp. 315-333. Chiara Renso, Stefano Spaccapietra, Esteban Zimanyi (eds.), New York, USA: Cambridge University Press, 2013.

6.4 Technical Reports

- [29] P. Barsocchi, L. Candela, V. Ciancia, M. Dellepiane, A. Esuli, M. Girardi, M. Girolami, R. Guidotti, F. Lonetti, L. Malomo, D. Moroni, F. M. Nardini, F. Palumbo, L. Pappalardo, M. A. Pascali, S. Rinzivillo, Young Researcher Award 2016, ISTI-CNR, 2016.

- [30] Daniel Schulz, Bruno Kochan, Christine Kopp, Michael May, Luca Pappalardo, Nikos Pelekis, Salvatore Rinzivillo, Filippo Simini, Marios Voudas, D4.1 Development of a Novel Evaluation and Benchmarking Standard, Rapporto tecnico del Deliverable D4.1 nel work package WP4 del progetto europeo DATASIM (FET Open, grant agreement 270833), 2013.
- [31] F. Giannotti, G. Andrienko, N. Andrienko, B. Furletti, J. Kertesz, F. Liu, M. Nanni, L. Pappalardo, N. Pelekis, C. Renso, S. Rinzivillo, D2.2: Semantic-enriched data-driven theory of mobility demand and final framework for integration. DATA science for SIMulating the era of electric vehicles (DATASIM), Deliverable D2.2 di progetto europeo, 2013.
- [32] F. Giannotti, G. Andrienko, N. Andrienko, B. Furletti, J. Kertesz, F. Liu, M. Nanni, L. Pappalardo, N. Pelekis, C. Renso, S. Rinzivillo, D2.1 Semantic-enriched data-driven theory of mobility demand and final framework for integration: preliminary results. DATA science for SIMulating the era of electric vehicles (DATASIM), Deliverable D2.1 di progetto europeo, 2011.

6.5 PhD thesis

- [33] Luca Pappalardo, *Human Mobility, Social Networks and Economic Development: a Data Science perspective*. Tesi di dottorato, Dipartimento di Informatica, Università di Pisa, 2014.

6.6 Articles on newspapers

- L. Pappalardo, D. Pedreschi, Abitudinari ed esploratori: la mobilità rivelata dai grandi numeri, articolo sul blog Nova de IlSole24Ore, 29 Giugno 2016.
- L. Pappalardo, D. Pedreschi, P. Cintia, S. Rinzivillo, Il dato è rotondo (e va in gol), articolo su IlSole24Ore, 28 Giugno 2015.
- P. Cintia, L. Pappalardo, Quando il computer scese in campo, articolo sul blog Nova de IlSole24Ore, 28 Giugno 2015.

7 Other skills

7.1 Computer skills

- **Programming Languages:** Python, R, Java, C, C++
- **DataBase Management Systems:** SQL, MongoDB, Hadoop File System

- **Web languages:** Php, HTML, Asp .Net, Javascript, CSS
- **Data Mining and Network Analysis tools:** Weka, KNIME, Clementine, Orange, Gephi, Cytoscape
- **Code editors:** Jupyter Notebook, PyCharm, Eclipse, Jcreator, Emacs, Text-Mate, NetBeans
- **Text editors:** Latex, Open Office, Microsoft Office, Adobe Illustrator.
- **Operating Systems:** Mac OS X, GNU/Linux, Windows

7.2 Languages

- **Italian**, native
- **English**, fluent
- **Spanish**, fluent

7.3 Artistic skills

- Playing piano
- Writing (visit my blog www.bigdatatales.com)