

Lorenzo Coviello

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WORK EXPERIENCE

Google May 2016 – present
Software Engineer
Google Shopping, Pittsburgh office

MIT Media Lab Sep 2015 – Apr 2016
Postdoctoral Associate
Group: Scalable Cooperation

Behavioral economics and data science consultant Aug 2015 – Dec 2016
Gneezy Consulting, San Diego, CA (consulting)
• Design of randomized experiments in companies, data analytics

Data Scientist Dec 2014 – June 2015
Posiba Inc., San Diego, CA (analytics)
• Startup using big data and analytics for the foundations and non-profits sector.

Data Scientist Intern Jun – Sep 2013
Walmart Labs, San Bruno, CA (e-Commerce)
• Designed, implemented and tested recommendation systems that estimate and use the temporal relationships between the purchase of different products

Research assistant - contractor Oct 2012 – Jun 2013
Facebook (Data Science)
• Developed a non-experimental, non-invasive statistical method to perform causal inference from observational data, and applied it on a project using Facebook data
• Worked on a variety of data science research projects

System Engineer Intern Jul – Sep 2012
ASSIA Inc., Redwood City, CA (Telecommunication)
• Design and conducted test campaign of G.inp protocol
• Developed models and algorithms for unbalance detection in DSL lines

Software Engineer Sep – Nov 2009
ULSS4 Altovicentino, Thiene, Italy (Healthcare)
• Worked in a team that developed and launched a new digital medical records system

Project Engineer Intern Apr – Jul 2009
SAIV Telecommunications, Vicenza, Italy (Data Networks)
• Designed networking, data and security systems for companies

EDUCATION

University of California at San Diego Jan 2010 – June 2015
PhD, Electrical and Computer Engineering
Thesis: “Towards theories of social interaction over networks”
Advisor: Prof. Massimo Franceschetti

Rady School of Management (UC San Diego) Oct – Nov 2014
Micro-MBA

University of California at San Diego 2013
MS, Electrical and Computer Engineering

University of Padova, Italy

2008

MS, Telecommunication Engineering, curriculum: Systems and Networks
Graduation grade: 110/110 *summa cum laude*

University of California at San Diego

Sep 2007 – Jul 2008

Visiting student, UC Education Abroad Program

University of Padova, Italy

2006

BS, Information Engineering
Graduation grade: 110/110 *summa cum laude*

PUBLICATIONS

- L. Coviello, R. Bond, J. Fowler, M. Franceschetti, “What do your friends tell about you? Prediction of individual political participation using social network information.” (ask for preprint)
 - L. Coviello, M. Franceschetti, M. García-Herranz, I. Rahwan, “Predicting and containing epidemic risk using friendship networks” (arxiv preprint <http://arxiv.org/abs/1509.08368>)
 - L. Coviello, M. Franceschetti, “Group buying with bundle discounts: computing efficient, stable, fair solutions.” (arxiv preprint <http://arxiv.org/abs/1506.00682>)
 - L. Coviello, M. Franceschetti, “Distributed social computation: the multi-agent group membership problem”, *IEEE Transaction on Network Control Systems* (forthcoming)
 - L. Coviello, J. Fowler, M. Franceschetti, “Words on the web: non-invasive detection of the spread of emotion in on-line social networks,” *Proceedings of the IEEE*, Vol. 102, Issue 12, pp. 1911–1921 (2014)
 - L. Coviello, Y. Sohn, A. Kramer, C. Marlow, M. Franceschetti, N. Christakis, J. Fowler, “Detecting emotional contagion in massive social networks,” *PLoS ONE*, 9(3), e90315 (2014), featured by Time, WSJ, USA Today, NPR, HuffPostLive
 - P. Minero, L. Coviello, M. Franceschetti, “Stabilization over Markov feedback channels: the general case,” *IEEE Transaction on Automatic Control*, Vol. 58, Issue 2, pp. 349–362 (2013)
 - M. Cebrian, L. Coviello, A. Vattani, P. Voulgaris, “Finding red balloons with split contracts: robustness to individual selfishness,” *ACM Symposium on Theory of Computing STOC*, pp. 775–788 (2012)
 - L. Coviello, M. Franceschetti, M. McCubbins, R. Paturi, A. Vattani, “Human matching behavior in social networks: an algorithmic perspective,” *PLoS ONE*, 7(8) e41900 (2012)
 - L. Coviello, M. Franceschetti, “Distributed team formation in multi-agent systems: stability and approximation,” *IEEE Conference on Decision and Control CDC* (2012)
 - L. Coviello, P. Minero, M. Franceschetti, “Stabilization over Markov feedback channels,” *IEEE Conference on Decision and Control CDC* (2011)
 - J. Settle, R. Bond, L. Coviello, C. Fariss, J. Fowler, J. Jones, A. Kramer, C. Marlow, “From posting to voting: the effect of political competition on online political engagement,” *Political Science Research and Methods* (2014)
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PUBLIC TALKS

- Northeastern University, NetSI, 2016, Predicting and containing epidemic risk using friendship networks (talk)
 - Information Theory and Applications Workshop (ITA), San Diego, CA, 2016, Predicting and containing epidemic risk using friendship networks (talk)
 - University of Vermont, 2016. Prediction of individual political participation using social network information (presentation)
 - MIT Media Lab, Human Dynamics weekly meeting, 2016. Prediction of individual political participation using social network information (presentation)
 - Workshop on Information in Network (WIN), New York, NY, 2015, Limits of friendship networks in predicting epidemic risk (poster)
 - MIT Media Lab, Human Dynamics weekly meeting, 2015. Limits of friendship networks in predicting epidemic risk (presentation)
 - Harvard, EconsCS seminar, 2015. Markets with bundle discounts: computing efficient, stable, fair solutions (talk)
 - BIG Ideas Workshop, Behavioral Insights Group, Harvard University 2015 (invited participant)
 - IEEE Communication Society, San Diego, CA, Noninvasive detection of emotional contagion in social networks (talk)
 - UC Berkeley, EECS Department, 2015, Towards a theory of human interaction (talk)
 - UC San Diego, ECE faculty seminar, 2014, Detecting emotional contagion in online social networks (talk)
 - Information Theory and Applications Workshop (ITA), San Diego, CA, 2014, The algorithmic power of human networks (talk)
 - University of Padova, Italy, Dep. of Information Engineering, 2013, The algorithmic power of human networks (talk)
 - UC San Diego, Rady School of Management, 2013, Experiments in networks (guest lecture in Behavioral Economics PhD course)
 - IEEE Conference on Decision and Control (CDC), Maui, HI, 2012, Multi-agent group formation: stability and approximation (talk)
 - ACM Symposium on Theory of Computing (STOC), New York, NY, 2012, Finding red balloons with split contracts: robustness to individuals' selfishness (talk)
 - USMA Network Science Workshop, West Point, NY, 2012, Distributed group formation (talk)
 - University of Padova, Italy, Dep. of Information Engineering, 2011, Stabilization over Markov feedback channels (talk)
 - UC San Diego, Human Nature Group seminar, 2011, Algorithmic modeling of human matching behavior over networks (talk)
 - IEEE Conference on Decision and Control (CDC), Orlando, FL, 2011, Stabilization over Markov feedback channels (talk)
 - Workshop on Information in Network (WIN), New York, NY, 2011, Weather affecting mood via social network analysis (poster)
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