

Curriculum Vitæ

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Personal Details

Name Flavio Chierichetti
Date of Birth May 21st 1982
Nationality Italian

Current Position

- Associate Professor in the Dipartimento di Informatica at Sapienza University of Rome (2015—).

Previous Positions

- Assistant Professor (Ricercatore) in the Dipartimento di Informatica at Sapienza University of Rome (2012—2015).
- Visiting Scientist at Google Mountain View (Spring 2016, host: Ravi Kumar).
- Visiting Scientist at Google Mountain View (Fall 2013, host: Ravi Kumar).
- Post-Doctoral researcher in the Department of Computer Science at Cornell University (2010—2012, host: Jon Kleinberg).

Research Projects

- Principal Investigator of the ERC Starting Grant DMAP (680153).
- Principal Investigator of the SIR Grant CoCensEndo (RBSI14Q743).
- Principal Investigator of the Google Focused Research Award “Web Algorithmics for Large-Scale Data Analysis”.
- Principal Investigator of the Google Faculty Award “Patterns of Communication”.

Awards

- KDD 2015 Best Paper Award.
- EATCS Best young Italian TCS researcher Award 2014.
- Google Focused Research Award 2014.
- Google Faculty Research Award 2013.

Education

- Ph.D. Degree in Computer Science, obtained from Sapienza University of Rome (2010, advisor: Alessandro Panconesi).
- Master Degree in Computer Science, obtained from Sapienza University of Rome (2006).
- Bachelor Degree in Computer Science, obtained from Sapienza University of Rome (2004).

Papers

Conferences

36. Counting Graphlets: Space vs Time
Marco Bressan, Flavio Chierichetti, Ravi Kumar, Stefano Leucci, Alessandro Panconesi
in Proc. of the 10th ACM Conference on Web Search and Data Mining (WSDM 2017)
35. The Distortion of Locality Sensitive Hashing
Flavio Chierichetti, Ravi Kumar, Alessandro Panconesi, Erisa Terolli
in Proc. of the 8th Conference on Innovations in Theoretical Computer Science (ITCS 2017)
34. On Sampling Nodes in a Network
Flavio Chierichetti, Anirban Dasgupta, Ravi Kumar, Silvio Lattanzi, Tamás Sarlós
in Proc. of the 25th International World Wide Web Conference (WWW 2016)
33. Approximate Modularity
Flavio Chierichetti, Abhimanyu Das, Anirban Dasgupta, Ravi Kumar
in Proc. of the 56th IEEE Symposium on Foundations of Computer Science (FOCS 2015)
32. Efficient Algorithms for Public-Private Social Networks
Flavio Chierichetti, Alessandro Epasto, Ravi Kumar, Silvio Lattanzi, Vahab Mirrokni
in Proc. of the 21st ACM Conference on Knowledge Discovery and Data Mining (KDD 2015)
(*Best Paper Award*)
31. Optimal Probabilistic Cache Stampede Prevention
Andrea Vattani, Flavio Chierichetti, Keegan Lowenstein
in Proc. of the 41st International Conference on Very Large Data Bases (VLDB 2015)
30. Essential Web Pages Are Easy to Find
Ricardo Baeza-Yates, Paolo Boldi, Flavio Chierichetti
in Proc. of the 24th International World Wide Web Conference (WWW 2015)
29. On Learning Mixture Models for Permutations
Flavio Chierichetti, Anirban Dasgupta, Ravi Kumar, Silvio Lattanzi
in Proc. of the 6th Conference on Innovations in Theoretical Computer Science (ITCS 2015)
28. On Reconstructing a Hidden Permutation
Flavio Chierichetti, Anirban Dasgupta, Ravi Kumar, Silvio Lattanzi
in Proc. of the 18th International Workshop on Randomization and Computation (RANDOM 2014)
27. Correlation Clustering in MapReduce
Flavio Chierichetti, Nilesch Dalvi, Ravi Kumar
in Proc. of the 20th ACM Conference on Knowledge Discovery and Data Mining (KDD 2014)
26. Event Detection via Communication Pattern Analysis
Flavio Chierichetti, Jon Kleinberg, Ravi Kumar, Mohammad Mahdian, Sandeep Pandey
in Proc. of the 8th AAAI Conference on Weblogs and Social Media (ICWSM 2014)
25. Learning Entangled Single-Sample Gaussians
Flavio Chierichetti, Anirban Dasgupta, Ravi Kumar, Silvio Lattanzi
in Proc. of the 25th ACM-SIAM Symposium on Discrete Algorithms (SODA 2014)
24. Trace Complexity of Network Inference
Bruno Abrahao, Flavio Chierichetti, Robert Kleinberg, Alessandro Panconesi
in Proc. of the 19th ACM Conference on Knowledge Discovery and Data Mining (KDD 2013)
23. On Discrete Preferences and Coordination
Flavio Chierichetti, Jon Kleinberg, Sigal Oren
in Proc. of the 13th Conference on Electronic Commerce (EC 2013)

22. How to Schedule a Cascade in an Arbitrary Graph
Flavio Chierichetti, Jon Kleinberg, Alessandro Panconesi
in Proc. of the 13th Conference on Electronic Commerce (EC 2012)
21. Are Web users really Markovian?
Flavio Chierichetti, Ravi Kumar, Prabhakar Raghavan, Tamás Sarlós
in Proc. of the 21st International World Wide Web Conference (WWW 2012)
20. Voting with Limited Information and Many Alternatives
Flavio Chierichetti, Jon Kleinberg
in Proc. of the 23rd ACM-SIAM Symposium on Discrete Algorithms (SODA 2012)
19. LSH-Preserving Functions and Their Applications
Flavio Chierichetti, Ravi Kumar
in Proc. of the 23rd ACM-SIAM Symposium on Discrete Algorithms (SODA 2012)
18. Reconstructing Patterns of Information Diffusion from Incomplete Observations
Flavio Chierichetti, Jon Kleinberg, David Liben-Nowell
in Proc. of the 25th Annual Conference on Neural Information Processing Systems (NIPS 2011)
17. Markov Layout
Flavio Chierichetti, Ravi Kumar, Prabhakar Raghavan
in Proc. of the 52nd IEEE Symposium on Foundations of Computer Science (FOCS 2011)
16. Optimizing Two-Dimensional Search Results Presentation
Flavio Chierichetti, Ravi Kumar, Prabhakar Raghavan
in Proc. of the 4th ACM Conference on Web Search and Data Mining (WSDM 2011)
(*Best Poster Award*)
15. Almost Tight Bounds for Rumour Spreading with Conductance
Flavio Chierichetti, Silvio Lattanzi, Alessandro Panconesi
in Proc. of the 42nd ACM Symposium on Theory of Computing (STOC 2010)
14. Max-Cover in Map-Reduce
Flavio Chierichetti, Ravi Kumar, Andrew Tomkins
in Proc. of the 19th International World Wide Web Conference (WWW 2010)
13. Stochastic Models for Tabbed Browsing
Flavio Chierichetti, Ravi Kumar, Andrew Tomkins
in Proc. of the 19th International World Wide Web Conference (WWW 2010)
12. Rumour Spreading and Graph Conductance
Flavio Chierichetti, Silvio Lattanzi, Alessandro Panconesi
in Proc. of the 21st ACM-SIAM Symposium on Discrete Algorithms (SODA 2010)
11. Finding the Jaccard Median
Flavio Chierichetti, Ravi Kumar, Sandeep Pandey, Sergei Vassilvitskii
in Proc. of the 21st ACM-SIAM Symposium on Discrete Algorithms (SODA 2010)
10. Models for the Compressible Web
Flavio Chierichetti, Ravi Kumar, Silvio Lattanzi, Alessandro Panconesi, Prabhakar Raghavan
in Proc. of the 50th IEEE Symposium on Foundations of Computer Science (FOCS 2009)
9. On Compressing Social Networks
Flavio Chierichetti, Ravi Kumar, Silvio Lattanzi, Michael Mitzenmacher, Alessandro Panconesi, Prabhakar Raghavan
in Proc. of the 15th ACM Conference on Knowledge Discovery and Data Mining (KDD 2009)

8. Rumor Spreading in Social Networks
Flavio Chierichetti, Silvio Lattanzi, Alessandro Panconesi
in Proc. of the 36th International Colloquium on Automata, Languages and Programming (ICALP 2009)
7. Similarity Caching
Flavio Chierichetti, Ravi Kumar, Sergei Vassilvitskii
in Proc. of the 28th ACM Symposium on Principles of Database System (PODS 2009)
6. Nearest-Neighbor Caching for Content-Match Applications
Sandeep Pandey, Andrei Broder, Flavio Chierichetti, Vanja Josifovski, Ravi Kumar, Sergei Vassilvitskii
in Proc. of the 18th International World Wide Web Conference (WWW 2009)
5. Compressed Web Indexes
Flavio Chierichetti, Ravi Kumar, Prabhakar Raghavan
in Proc. of the 18th International World Wide Web Conference (WWW 2009)
4. The Local Nature of List Colorings for Graphs of High Girth
Flavio Chierichetti, Andrea Vattani
in Proc. of the 35th International Colloquium on Automata, Languages and Programming (ICALP 2008)
3. On Placing Skips Optimally In Expectation
Flavio Chierichetti, Silvio Lattanzi, Federico Mari, Alessandro Panconesi
in Proc. of the 1st ACM Conference on Web Search and Data Mining (WSDM 2008)
2. Pictures from Mongolia — partial sorting in a partial world
Paolo Boldi, Flavio Chierichetti, Sebastiano Vigna
in Proc. of the 4th Fun with Algorithms Conference (FUN 2007)
1. Finding Near Neighbors Through Cluster Pruning
Flavio Chierichetti, Alessandro Panconesi, Prabhakar Raghavan, Mauro Sozio, Alessandro Tiberi, Eli Upfal
in Proc. of the 26th ACM Symposium on Principles of Database System (PODS 2007)

Journals

10. LSH-Preserving Functions and Their Applications
Flavio Chierichetti, Ravi Kumar
in Journal of the ACM (JACM), Volume 62, Issue 5, 2015
9. How to Schedule a Cascade in an Arbitrary Graph
Flavio Chierichetti, Jon Kleinberg, Alessandro Panconesi
in SIAM Journal on Computing (SICOMP), Volume 43, Issue 6, 2014
8. Voting with Limited Information and Many Alternatives
Flavio Chierichetti, Jon Kleinberg
in SIAM Journal on Computing (SICOMP), Volume 43, Issue 5, 2014
7. The Complexity of LSH Feasibility
Flavio Chierichetti, Ravi Kumar, Mohammad Mahdian
in Theoretical Computer Science (TCS), Volume 530, 2014
6. Models for the Compressible Web
Flavio Chierichetti, Ravi Kumar, Silvio Lattanzi, Alessandro Panconesi, Prabhakar Raghavan
in SIAM Journal on Computing (SICOMP), Volume 42, Issue 5, 2013
5. Rumor Spreading in Social Networks
Flavio Chierichetti, Silvio Lattanzi, Alessandro Panconesi
in Theoretical Computer Science (TCS — special issue for the best papers of ICALP 2009), Volume 412, Issue 24, 2011

4. The Local Nature of List Colorings for Graphs of High Girth
Flavio Chierichetti, Andrea Vattani
in SIAM Journal on Computing (SICOMP), Volume 39, Issue 6, 2010
3. Designing Floating Codes for Expected Performance
Flavio Chierichetti, Hilary Finucane, Zhenming Liu, Michael Mitzenmacher
in IEEE Transactions on Information Theory (ToIT), Volume 56, Issue 3, 2010
2. Pictures from Mongolia — Extracting the Top Elements from a Partially Ordered Set
Paolo Boldi, Flavio Chierichetti, Sebastiano Vigna
in Theory of Computing Systems (ToCS), Volume 44, Issue 2, 2009
1. Modes and Cuts in Metabolic Networks: Complexity and Algorithms
Vicente Acuña, Flavio Chierichetti, Vincent Lacroix, Alberto Marchetti-Spaccamela, Marie-France Sagot, Leen Stougie
in Biosystems, Volume 95, Issue 1, 2009

Patents

- Non-exact Cache Matching
Andrei Broder, Sandeep Pandey, Vanja Josifovski, Ravi Kumar, Sergei Vassilvitskii, Flavio Chierichetti
filed, U.S. Patent office.

Service

- Associate Editor for ACM Transactions on Algorithms (TALG).
- Co-Chair of the Poster Track of the 24th International World Wide Web Conference (WWW 2015).
- Program Committee member of:
 - the 23rd ACM Conference on Knowledge Discovery and Data Mining (KDD 2017) (*senior PC member*),
 - the 26th International World Wide Web Conference (WWW 2017),
 - the 10th ACM Conference on Web Search and Data Mining (WSDM 2017),
 - the 43rd International Colloquium on Automata, Languages and Programming (ICALP 2016),
 - the 24th International World Wide Web Conference (WWW 2015),
 - the 26th ACM-SIAM Symposium on Discrete Algorithms (SODA 2015),
 - the 7th ACM Conference on Web Search and Data Mining (WSDM 2014),
 - the 22nd International World Wide Web Conference (WWW 2013),
 - the 31st ACM Symposium on Principles of Distributed Computing (PODC 2012),
 - the 21st International World Wide Web Conference (WWW 2012),
 - the 20th International World Wide Web Conference (WWW 2011),
 - the 14th European Conference on the Principles of Knowledge Discovery in Databases (PKDD 2011).
- Organizing Committee member of:
 - the 24th International World Wide Web Conference (WWW 2015),
 - the 6th ACM Conference on Web Search and Data Mining (WSDM 2013).