

Lada A. Adamic

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RESEARCH INTERESTS:

I am interested in information dynamics in networks: how information influences the evolution of networks, how network structure influences the flow of information, and how social networks can be navigated.

EMPLOYMENT:

09/2005 —	School of Information, University of Michigan Assistant Professor	Ann Arbor, MI
07/2001 — 08/2005	HP Labs Research scientist	Palo Alto, CA

EDUCATION:

07/1997 — 06/2001	Stanford University Ph.D., Applied Physics	Stanford, CA
9/1993 — 06/1997	California Institute of Technology B.S., Physics B.S., Engineering and Applied Science	Pasadena, CA

REFEREED JOURNAL ARTICLES:

- L. A. Adamic and E. Adar, "How to search a social network", *Social Networks*, 27(3):187-203, July 2005.
- F. Wu, B. A. Huberman, L.A. Adamic and J.R. Tyler, 'Information flow in social groups', *Physica A*, 337:327-335, 2004.
- L. A. Adamic and E. Adar, 'Friends and neighbors on the Web', *Social Networks*, 25(3):211-230, 2003.
- L. A. Adamic, O. Buyukkokten and E. Adar, 'A social network caught in the Web', *First Monday*, June 2003.
- L. A. Adamic, R. M. Lukose, A. R. Puniyani, and B. A. Huberman, 'Search in power-law networks', *Phys. Rev. E* 64:046135, 2001.
- L. A. Adamic and B. A. Huberman, 'The nature of markets in the World Wide Web', *Quarterly Journal of Electronic Commerce*, 1:5-12, 2000.
- L. A. Adamic, 'The Small World Web', *Proceedings of the 3rd European Conf. on Digital Libraries*, Springer, 443-452, 1999.
- B. A. Huberman and L. A. Adamic, 'Growth Dynamics of the World Wide Web', *Nature* 410:131, 1999.

REFEREED CONFERENCE AND WORKSHOP PAPERS:

- J. Leskovec, L.A. Adamic, and B.A. Huberman, 'The Dynamics of Viral Marketing', *ACM Conference on Electronic Commerce*, Ann Arbor, MI, June 11-15, 2006.
- E. Adar and L. A. Adamic, 'Tracking Information Epidemics in Blogspace', *Web Intelligence 2005*, Compiègne, France, Sept. 19-22, 2005.
- L. A. Adamic and N. Glance, 'The Political Blogosphere and the 2004 U.S. Election: Divided They Blog', *Annual Workshop on the Weblogging Ecosystem*, WWW2005, Japan, 2005.
- T. Hogg and L. A. Adamic, 'Enhancing reputation mechanisms via online social networks', *Proceedings of the 5th ACM conference on Electronic Commerce*, New York, NY, 236-237, 2004. (short paper)
- E. Adar, L. Zhang, L. A. Adamic, R. M. Lukose, 'Implicit Structure and the Dynamics of Blogspace', *WWW 2004 Workshop on the Weblogging Ecosystem*, New York, NY May 2004.
- L. A. Adamic, D. M. Wilkinson, B. A. Huberman and Eytan Adar, 'A Literature Based Method for Identifying Gene-Disease Connections', *CSB2002*, Stanford, CA, August 2002.
- L. A. Adamic and E. Adar, 'You are what you link', *10th International World Wide Web Conference*, Hong Kong, China, May 2001 (in online proceedings).

REFEREED BOOK CHAPTERS:

- L. A. Adamic and B. A. Huberman, "Information dynamics in a networked world", In *Complex Networks*, Eli Ben-Naim et al., editors. Lecture Notes in Physics, Springer, 2003.
- L. A. Adamic, R. M. Lukose and B. A. Huberman, "Local Search in Unstructured Networks", in *Handbook of Graphs and Networks: From the Genome to the Internet*, S. Bornholdt, and H.G. Schuster (eds.), Wiley-VCH, Berlin, 2002.

TECHNICAL REPORTS AND MISCELLANEOUS NON-REFEREED PUBLICATIONS:

- L. A. Adamic, E. Adar, and J. O'Madadhain, 'PeopleFinder²', HP Labs technical report, 2004.
- L. A. Adamic and B. A. Huberman, 'A tool for discovering knowledge communities', *HP TechCon '04*.
- L. A. Adamic and R. M. Lukose, 'Random Networks Growing Under a Diameter Constraint. HP Labs technical report, 2003. <http://xyz.lanl.gov/abs/cond-mat/0301034>
- L. A. Adamic and B. A. Huberman, 'Zipf's law and the internet', *Glottometrics* 3:143-150, 2002.
- L. A. Adamic and B. A. Huberman, 'The Web's Hidden Order', *Communications of the ACM*, 44 (9):55-60, 2001.

PH. D. THESIS:

- L. A. Adamic, 'Network Dynamics: The World Wide Web', Applied Physics PhD thesis, Stanford University, 2001. Thesis advisor: Prof. Bernardo A. Huberman

U.S. PATENTS:

- Natalie S. Glance, Bernardo A. Huberman, Lada A. Adamic, and Jim Pitkow. U.S. Patent 6631451 & 6415368: System and method for caching

INVITED CONFERENCE TALKS:

- 'Implicit structure and the dynamics of blogspace', *Accelerating Change 2004*, Stanford, CA, November 2004.
- 'Information Flow in Social Groups', *CNLS Conference on Networks*, Santa Fe, NM, May 2004.
- 'Local search in unstructured networks', *XVIII Sitges Conference on Statistical Mechanics*, Sitges, Spain, June 2002.
- 'P2PSearch that scales', *O'Reilly Peer-to-Peer & Web Services Conference*, Washington, D.C. November 2001.

INVITED TALKS:

- January 27th, 2006, Futuretech, Virtual links panel, U Michigan
- January 12th, 2006, STIET seminar, U Michigan
- December 13th, 2005, lecturer, International School on Semiotic Dynamics, Language and Complexity, Erice, Italy
- November 9th, 2005, MOCHI seminar, U Michigan
- October 8th, 2005, Reflections | Projections 2005, UIUC
- August 3^d, NEC Labs, Cupertino, CA
- June 13th, 2005, Agent Network Dynamics and Intelligence '05, Kitakyushu city, Japan
- May, 20th 2005, Solomon seminar, Josef Stefan Institute, Ljubljana, Slovenia.
- 16-28th May, 2005, lecturer, School and Workshop on Structure and Function of Complex Networks, Trieste, Italy
- January 28, 2005, "Information Dynamics in a Networked World", Indiana University
- March 3, 2004 "How to search in a small world", Lawrence Livermore National Lab
- October 23, 2003, "A social network caught in the Web", Mills College
- May 5, 2000, "Hidden order in the Web", Stanford University

SYSTEMS BUILT:

- PeopleFinder²** – a search engine for finding expertise within the enterprise
- Knowledge Brief Navigator** – generation system for machine translation
- GeneLit** – A system for identifying gene-disease connections from Medline
- Stanford Social Web** – navigation interface to networks of personal homepages

PRESS COVERAGE:

- The work on the dynamics of blogspace was covered in Wired and posted to slashdot.
- The work on the Web as a small world network was covered by the New York Times & Le Monde.
- The work on search in power-law networks was featured in TRNews.

CONFERENCE AND WORKSHOP COMMITTEES:

- Program Committee, AAAI-06, Artificial intelligence and the Web
- Program Committee, AIRWeb 2006
- Program Committee, 2006 ACM Conference on Electronic Commerce
- Organizing committee, 2006 German-American Frontiers of Science meeting
- Program committee, ISWC-2005 Workshop on: Semantic Network Analysis, Galway Ireland, November 9th, 2004.
- Program committee, Link-KDD 2005, Chicago, IL, August 21, 2005.
- Program committee, WWW 2005 2nd Annual Workshop on the Weblogging Ecosystem, Chiba, Japan, May 10th, 2005
- Program committee, 2004 Workshop on Algorithms and Models for the Web-Graph (WAW2004), Rome, Italy, September 2004.
- Program committee, FOAF Workshop on Friend of a Friend, Social Networking and the (Semantic) Web, Galway, Ireland, September 2004.

Program committee, Workshop on Link Analysis and Group Detection (LinkKDD2004), Seattle, WA, August 2004.
Co-chair, WWW 2004 Workshop on the Weblogging Ecosystem: Aggregation, Analysis and Dynamics, New York, NY May 2004.
Program committee, 2nd International Workshop on Web Dynamics, Honolulu, Hawaii, May 2002.

JOURNAL REVIEWING:

Science, Physical Review Letters, Physical Review E, Physica A, Communications of the ACM, Lecture Notes in Physics, Journal of Bioinformatics and Computational Biology, IEEE transactions on Parallel and Distributed Systems, Journal of Computer-Mediated Communication

RESEARCH EXPERIENCE:

HP Labs, 2001-2005 Research Staff Member
Worked on various research projects relating to networks constructed from large data sets. These projects included mining the medical literature for gene-disease connections, tracking and modeling information flow in email and blog networks, modeling search processes on real-world social networks, and building expertise-finding systems for HP's internal use.

Stanford University/ Xerox PARC, 1997 — 2001 Graduate Research Assistant
I had the opportunity to work on my PhD at Stanford while collaborating with researchers at Xerox PARC, since my advisor, Prof. Bernardo A. Huberman was affiliated with both. I modeled growth and search processes of the internet.

Caltech, 1996-1997 Undergraduate Research Assistant
Worked under the supervision of Prof. Harry A. Atwater on materials deposition with pulsed laser ablation.

Caltech, 1994-1995 Undergraduate Research Assistant
Worked under the supervision of Prof. Donald Burnett and Dr. Roger Wiens on designing an electrostatic solar wind concentrator for the Genesis mission.

PH. D. STUDENTS ADVISED:

Xiaolin Shi, 2005--, information dynamics in social networks

SUMMER INTERNS SUPERVISED:

Jure Lescovec, 2005, Ph.D. student in Computer Science from CMU. Jure analyzed the statistical properties of a large scale recommendation network.

Joshua O'Madadhain, 2004, Ph.D. student in Computer Science from UC Irvine. His project included applying link prediction to email networks as well as using predictive metrics to filter inaccurate social network data.

PROFESSIONAL AFFILIATIONS:

ACM
INSNA (International Network for Social Network Analysis)

last updated March 2006