

Curriculum Vitae

1. Personal Information

Name	Ricardo Baeza-Yates
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2. Current Activities

- VP of Yahoo! Research for EMEA and LatAm, heading the labs in Europe (Barcelona, Spain) and Latin America (Santiago, Chile), since 2006. Supervising the lab in Haifa, Israel, since 2008.
- Board member of Yahoo! Israel and Yahoo! Hungary.
- Member of the Executive Board of the Barcelona Media Foundation, since 2009.
- Part-time Professor of the Ph.D. program at the Dept. of Information and Communications Technologies of Pompeu Fabra University, Barcelona, Spain.
- Corresponding member of the Chilean Academy of Sciences since December 2002.
- Member of the Advisory Board of the Professional Association of Computing Professionals of Catalonia since 2009.
- Founding member of the Chilean Academy of Engineering since 2010.

3. Studies

- Ph.D. in Computer Science, University of Waterloo, Ontario, Canada, May 1989. Supervised by Gaston Gonnet, and working in the New Oxford English Dictionary Project.
- M.Eng. in Electrical Engineering (Digital Systems and Automatic Control), Univ. de Chile, 1986.
- M.Sc. in Computer Science, Universidad de Chile, 1985.
- Electrical Engineer, specialization in Digital Systems, Universidad de Chile, 1985.
- Bachelor in Computer Science, Universidad de Chile, 1983.

4. Awards, Fellowships and Scholarships

- Named IEEE Fellow for contributions to the development of computer science, 2011.
- National Award of the Chilean Association of Engineers, 2010.
- Named ACM Fellow for contributions for information retrieval algorithms and techniques, 2009.
- CLEI Distinction to Achievements in Informatics, given by the Latin American association of CS departments to people that has contributed to the development of computer science in the region, 2009.
- J. W. Graham Medal in Computing & Innovation given to distinguished alumni of the University of Waterloo, Canada, 2007.
- Erskine Fellowship from the University of Canterbury, New Zealand, 2004.
- Chilean Fulbright Commission Fellowship in Information Technology, 2003.
- 1997 COMPAQ Award to the best Brazilian research article ([46] published in 1996 (with Eduardo Barbosa and Nivio Ziviani).
- Fellowship from the Education and Science Ministry of Spain to have a sabbatical year at the Polytechnic Univ. of Catalunya, 1996.
- Award “Ramón Salas Edwards” of the Institute of Engineers of Chile to the best research on engineering on the last 4 years in 1994.
- Recipient of a United States Information Service Important Visitor program, June 1994.
- Award of the Organization of American States (OAS) for young researchers in 1993 (Exact Sciences).
- Award from PC Software magazine to the best Chilean software, SearchCity, designed with Pablo Palma in 1992. This software for Windows 3.1 was similar to Google Desktop but was too ahead in time to succeed.
- Special mention, University of Chile Award for Young Researchers, 1992.
- Award “Marcos Orrego Puelma” of the Institute of Engineers of Chile to the best engineer student graduated in Chile during 1985.
- Ontario Graduate Scholarship, May 1988-April 1989.
- Institute for Computer Research scholarship for graduate studies, University of Waterloo, May 1986-August 1988.
- University of Waterloo graduate scholarship, January 1987-April 1988, and January 1988-April 1988.
- Department of Computer Science Fellowship (Univ. of Waterloo), September 1988-March 1989.
- Information Technology and Research Centre graduate scholarship (Canada), January 1989-April 1989.

5. Academic Experience

- ICREA Research Professor, Dept. of Technology, Universitat Pompeu Fabra, Barcelona, Spain, Dec 2004-2005.
- Faculty member at the Department of Computer Science, University of Chile, Santiago, Chile, 1985-2005 (Professor from April 1995).
- Founder and first director of the Center for Web Research (www.cwr.cl), 2002-2005.
- Chair of the CS Dept. (Univ. of Chile) from June 1993-September 1995, and November 2002-November 2004.
- Founder and director of the post-graduate program on Software Projects Management, 1998-2004.
- Visiting Professor (sabbatical) at the CS Dept., Canterbury University, New Zealand (February-March, 2004).
- Visiting Professor (sabbatical) at the CS & SE Dept., Univ. of Melbourne, Australia, (November-December, 2003).
- Visiting Professor (sabbatical) at the CS Dept., Univ. of Sydney, Australia (January 2004).
- Visiting Professor at the CS Dept., Stanford University, July 2003.
- Visiting Professor at the Technology Dept., Pompeu Fabra University (February 2000, 2001, 2002 and 2003).
- Visiting Professor (sabbatical) at the LSI Dept., Polytechnic Univ. of Catalunya, Barcelona, Apr to Dec 1996.
- Visiting Professor (sabbatical) at the Mathematics Research Center (CRM), Barcelona, Jan to Mar 1996.
- Have been professor of Ph.D. programs at University Carlos III, Madrid, Spain; Univ. Rovira i Virgili, Tarragona, Spain; Polytechnic Univ. of Madrid, Spain; Polytechnic Univ. of Catalunya, Spain; and Catholic University, Santiago, Chile.
- Coordinator for the Univ. of Chile of a M.Sc. program at Univ. Mayor de San Simón, Cochabamba, Bolivia, jointly given with Utrecht University (Netherlands) and Catholic University of Chile, 1996-1999.
- Member of the Post-graduate Engineering Committee of the University of Chile, 1991-1995.
- Member of the Exact and Earth Sciences Research Committee of the University of Chile, 1992-2000.
- Coordinator for the M.Sc. program in Computer Science, University of Chile, 1990-1991.
- Postdoctoral fellowship at the University of Waterloo from May to September of 1989.

- Lecturer at the Universidad de Chile, from 1984 to 1986.
- Part time lecturer at the Pontificia Universidad Católica de Chile in 1985.
- Part time lecturer at the Universidad de Santiago, from 1984 to 1985.
- Research assistant at the Computer Science Department of University of Waterloo (1986-89), and Universidad de Chile (1982-83).
- Research assistant at the Department of Electrical Engineering of Universidad de Chile in 1982.
- Teaching assistant of several courses at the Computer Science Department of University of Waterloo (1986-89) and Universidad de Chile (1981-83).

6. Professional and Service Experience

- Founder of the TodoCL (www.todocl.cl) search engine that covers Chilean Web sites since 2000. Currently it has more than 100,000 sites, 4 million Chilean Web pages and millions of queries per month.
- Member of the Publications Board of the ACM, USA, 2007-2009.
- Member of the ACM SIGMOD Doctoral Dissertation Award committee (2006-2007).
- Member of the governmental committee for the Chilean Digital Agenda from 1998 to 2005.
- Member of the consulting committee for the design and evaluation of the new identity card and passport for the National Chilean Civil Registry from 1995 to 2005. In particular I was in charge of evaluating the AFIS (Automated Fingerprint Identification System) system for identity verification.
- Chilean site director of the regional ACM Programming Contest and member of the South American steering committee, 1998-2005.
- Chilean representant in the European Molecular Biology Network (EMBNET), 2000-2005.
- Member of the Board of Governors of the IEEE Computer Society (USA) from 2002 to 2004.
- President of CLEI (Latin American Center of Studies in Informatics, a Latin American association that gathers more than 60 computer science departments in 14 countries) from 2000-2004.
- International Coordinator of the Ibero-American cooperation program in science and technology (CYTED) in the areas of Applied Electronics and Informatics, 2000-2004.
- Member of the board of the European Association for Theoretical Computer Science (EATCS), 2001-2003.
- President of the Chilean Computer Science Society (SCCC) from October 1992 to November 1995 and from December 1996 to November 1998. Board member from December 1995 to November 1996 and from November 1998 to November 2002.

- Member of evaluation committee for FONDEF (technology transfer program), National Research Council for Science and Technology, Chile, 1991-1995 and 2001-2002.
- Member of evaluation committee for FONDECYT (basic research program), National Research Council for Science and Technology, Chile, 1999-2000.
- President of the Chilean IEEE Computer Society chapter, 1998-2000.
- International consultant for the United Nations (PNUD) for a governmental system in Perú, 1998.
- Coordinator of the Algorithms and Data Structures group of the Ibero-American Network on Software Technology (RITOS), 1992-1997.
- Coordinator of UNESCO courses in Informatics in Bolivia, Perú, Ecuador, Panamá, Paraguay and Chile, 1995-97.
- Coordinator for an IFIP project to support electronic networks in Bolivia and Peru, 1993-94.
- Consultant for the International Organization for Migrations, United Nations, for the analysis of the information systems of the Chilean Congress, 1990.
- Consultant for many companies including IBM, Langton-Clarke, Sonda, etc., 1990-1992.

7. Research Projects

- HIPERGRAPH: High Performance processing of large data represented as Graphs. Ministry of Science, Spain, 2009-2012. Coordinated project between Pompeu Fabra Univ., Polytechnic Univ. of Catalonia and Univ. of A Corua. Project leader.
- SEMEDIA (Search Environments for Media), STREP project of the VI Research Framework of the European Union, 2007-2009. Project leader.
- WEBMIN: A Platform for Web Mining, Ministry of Education, Spain, 2006-2008. Project leader.
- Web Mining Research Group, Universitat Pompeu Fabra, AGAUR (Catalonia Government), 2006-2008. Project leader.
- Functional Genomics in Nectarines, Chilean Genomics Program, 2004-2006. Project leader: Ariel Orellana. I was in charge of creating and leading the first two years of the bioinformatics group of the project.
- Center for Web Research (www.cwr.cl), Millennium Nucleus, Mideplan, Chile, 2002-2005. Project leader. This is the largest CS grant ever awarded in Chile.
- Intelligent Multimedia Information Retrieval in the Net, ALFA Project (EU-Latinamerican Cooperation), 2004-2005. Project co-leader with Vicente López.
- Web Mining, CONICYT (Chilean National Science Funding), 2002-2003. Project leader.

- Pattern Matching and Applications. Project ECOS-CONICYT with Univ. Marne-la-Vallee, Paris, France, 2000-2002. Project co-leader with Maxime Crochemore.
- Design and Analysis of Sequential and Parallel Algorithms with Applications, CONICYT (Chilean National Science Funding), 1999-2001. Project leader.
- Exchange of Postgraduates in Parallel and Distributed Processing (PARNET), ALFA Project (EU-Latinamerican Cooperation), 1999-2003. Project leader: Claude Giralt. This project involved six countries and I was the leader of the Chilean counterpart.
- Environment for Manipulation and Retrieval of Information in WWW (AMYRI), CYTED (Iberoamerican countries), 1997-1999. Project leader.
- Infocommunication in Broadband Networks, FONDEF (Chilean fund for technology transfer), 1997-1999 (Project leader: Eduardo Vera). This was part of the AccessNova program between NTT Japan and the University of Chile which started in 1995.
- Parallelism and search. Cooperation project Chile-Catalunya with Polytechnic Univ. of Catalunya, Barcelona, 1997. Project co-leader with Joaquim Gabarró.
- Applications on Broadband Networks. Project ECOS-CONICYT with Univ. Joseph Fourier, Grenoble, 1996-98. Project co-leader with Jacques Lamordant.
- Data Structures: Design, Analysis and Applications, CONICYT (Chilean National Science Funding), 1995-98. Project leader.
- Collaborative Systems: User Interfaces, CONICYT (Chilean National Science Funding), 1994-99. Co-researcher (Project leader: José Pino).
- Textual Databases: Algorithms, Interfaces and Applications, CONICYT (Chilean National Science Funding), 1993-94. Project leader.
- Visualization Techniques for Software Design, Fifth Centennial (Spain), 1993-95. Project co-leader with Gonzalo León, Polytechnic Univ. of Madrid.
- Algorithms for Text Processing, Fundación Andes, Chile-Brazil cooperation program (with Univ. of Campinas and Univ. Fed. of Minas Gerais), 1993-94. Project leader.
- Collaborative Systems, CONICYT (Chilean National Science Funding), 1992-1993. Co-researcher (Project leader: José Pino).
- Program Visualization, CONICYT (Chilean National Science Funding), 1991-1992. Project leader.
- Evaluation of Graphical User Interface Toolkits, DTI (University of Chile Funding), 1991-1992. Project leader.
- Integrated Software with Graphical Interfaces for Text Processing, Fundación Andes C-11001, 1990-1992. Project leader.

- New Oxford English Dictionary Project, University of Waterloo, 1987-1989. Research Assistant (Project leaders: Gaston Gonnet & Frank Tompa).
- Design and Analysis of Data Structures for Dictionary Implementation, Chilean National Science Funding 1153/85, 1985-86. Research Assistant (Project leader: Patricio Poblete).
- Data Structures for Storing and Retrieving Information, University of Chile, E 1949-8522, 1985. Research Assistant (Project leader: Patricio Poblete).

8. Citations

According to Google Scholar there are more than 20,600 citations to my work (May 2011), with an approximate h-index of 48. In September 2010, CiteSeerX found more than 4,600 independent citations and ranked me the 512th most cited author in CS from a universe of more than 800 thousand authors (latest available ranking in May 2011).

In May 2011, the ACM Digital Library had more than 3,300 citations to my work, with more than 5,700 downloads in the last year.

9. Publication Record

9.1. Books

- [1] R. Baeza-Yates and B. Ribeiro-Neto, *Modern Information Retrieval*, second edition, Addison-Wesley, England, 913 pages, 2010. Part of the book is available in my personal Web site. The first edition was published by ACM Press/Addison-Wesley, England, 513 pages, in 1999, and was translated to Chinese and Korean and printed in special editions for China and India. According to CiteseerX this is the 3th most cited work published in 1999 and the 74th overall. More than **9,000** citations.
- [2] G.H. Gonnet and R. Baeza-Yates. *Handbook of Algorithms and Data Structures - In Pascal and C*. Addison-Wesley, Wokingham, UK, 424 pages, 1991. (second edition). Source code is available in my personal WWW page. More than **600** citations.
- [3] W. Frakes and R. Baeza-Yates, editors. *Information Retrieval: Data Structures and Algorithms*. Prentice-Hall, Englewood Cliffs, NJ, USA, 504 pages, 1992. Source code is available in my personal WWW page. More than **1950** citations.
- [4] M. Melucci and R. Baeza-Yates, editors. *Advanced Information Retrieval*, Springer, Berlin, 2011. Based in the European IR summer school organized in Padova, 2009.
- [5] I. King and R. Baeza-Yates, editors. *Weaving Services and People on the World Wide Web*, Springer, Berlin, 2009. Selection of papers presented at the Workshop Track of the 17th International World Wide Web Conference (WWW 2008) held at Beijing, China, 2008.
- [6] R. Baeza-Yates, J. Glaz, H. Gzyl, J. Hüsler, and J.L. Palacios, editors. *Applied Probability: Recent Advances*, Kluwer Academic Publishers, 2004.

- [7] R. Peña, R. Baeza-Yates and J.V. Rodríguez Muñoz, *Digital management of information: from bits to digital libraries and the Web* (In Spanish: Gestión digital de la Información: de bits a bibliotecas digitales y la Web), ISBN: 84-7897-514-4. Ra-Ma, Spain, 2002.

9.2. Editor of Proceedings

- [1] Wei-Ying Ma, Jian-Yun Nie, Ricardo Baeza-Yates, Tat-Seng Chua, and W. Bruce Croft. *Proceedings of the 34th International ACM SIGIR Conference on Research and Development in Information Retrieval - SIGIR 2011*, Beijing, China, Jul 2011.
- [2] Ricardo Baeza-Yates, Paolo Boldi, Berthier Ribeiro-Neto, Berkant Barla Cambazoglu. *Proceedings of the Second ACM Conference on Web Search and Web Data Mining - WSDM 2009*, Barcelona, Spain, ACM Press, Feb 2009.
- [3] Ricardo Baeza-Yates, Wagner Meira Jr., Luis Olsina. *Proceedings of 6th Latin American Web Congress - LA-WEB 2008*, Vila Velha, Brazil, IEEE CS Press, Oct 2008 (CD-ROM).
- [4] Mário J. Silva, Alberto H. F. Laender, Ricardo A. Baeza-Yates, Deborah L. McGuinness, Bjorn Olstad, Oystein Haug Olsen, André O. Falcão: *Proceedings of the Sixteenth ACM Conference on Information and Knowledge Management, CIKM 2007*, Lisbon, Portugal, November 6-10, 2007 ACM 2007.
- [5] Virgilio Almeida, Ricardo Baeza-Yates. *Proceedings of 5th Latin American Web Congress - LA-WEB 2007*, Santiago, Chile, IEEE CS Press, Oct 31-Nov 2, 2007.
- [6] Nivio Ziviani, Ricardo A. Baeza-Yates. *Proceedings of 14th Int. Symposium on String Processing and Information Retrieval - SPIRE 2007*, Santiago, Chile, Springer, LNCS 4726, October 29-31, 2007.
- [7] G. Marchionini, A. Moffat, J. Tait, R. Baeza-Yates, and N. Ziviani. *Proceedings of SIGIR 2005*, ACM Press, Salvador, Brazil, August 2005.
- [8] R. Baeza-Yates, J.L. Marroquín, and E. Chávez (editors), *Proceedings of ENC*, IEEE CS Press, Colima, México, September 2004 (422 pages).
- [9] R. Baeza-Yates, D. Schwabe, J. Piquer, N. Ziviani, L. Olsina (editors), *Proceedings of LA-WEB*, IEEE CS Press, Santiago, Chile, November 2003.
- [10] R. Baeza-Yates, E. Chávez, M. Crochemore (Eds.): *Combinatorial Pattern Matching Proc. 14th Annual Symposium in Combinatorial Pattern Matching (CPM 2003)*, LNCS 2676, Springer, Morelia, Michoacán, Mexico, June 25-27, 2003.
- [11] R. Baeza-Yates, Ugo Montanari, and N. Santoro, editors. *Foundations of Information Technology in the Era of Network and Mobile Computing (Proc. II IFIP Theoretical Computer Science Symposium)*, Kluwer, August 2002 (held in Montreal, Canada).
- [12] Micheline Beaulieu, Ricardo Baeza-Yates, Sung Hyon Myaeng, editors. *Proc. 25th ACM SIGIR*, ACM Press, August 2002 (held in Tampere, Finland).
- [13] R. Baeza-Yates, editor. *Proc. XXI Int. Conf. of the Chilean Computer Science Society*. IEEE CS Press, November 2001 (held in Punta Arenas, Chile).

- [14] R. Baeza-Yates, editor. *Proc. XVII Int. Conf. of the Chilean Computer Science Society*. IEEE CS Press, November 1997 (held in Valparaíso, Chile).
- [15] B. Sarikaya and R. Baeza-Yates, editors. *Proc. IEEE Conference on Protocols for Multimedia Systems and Multimedia Networking*. IEEE CS Press, November 1997 (held in Santiago, Chile).
- [16] R. Baeza-Yates, editor. *Proc. IV South American Workshop on String Processing*, volume 8 of *Informatics*. Carleton University Press, November 1997 (held in Valparaíso, Chile).
- [17] N. Ziviani, R. Baeza-Yates, and K. Guimarães, editors. *Proc. III South American Workshop on String Processing*, volume 4 of *Informatics*. Carleton University Press, August 1996 (held in Recife, Brazil).
- [18] R. Baeza-Yates, E. Goles, and P.V. Poblete, editors. *LATIN'95: II Symposium on Latinamerican Theoretical Informatics*. Number 911 in Lecture Notes in Computer Science. Springer Verlag, Heidelberg, Germany, April 1995 (held in Valparaíso, Chile).
- [19] R. Baeza-Yates and U. Manber, editors. *Proc. II South American Workshop on String Processing*. April 1995 (held in Valparaíso, Chile).
- [20] R. Baeza-Yates, editor. *Computer Science Research 2: Proc. XIII Int. Conf. of the Chilean Computer Science Society*. Plenum Press, 1994 (held in La Serena, Chile, Oct 1993).
- [21] R. Baeza-Yates and N. Ziviani, editors. *Proc. I South American Workshop on String Processing*. October 1993 (held in Belo Horizonte, Brazil).
- [22] R. Baeza-Yates and U. Manber, editors. *Computer Science Research: Proceedings XI Int. Conf. of the Chilean Computer Science Society*. Plenum Press, 1992 (held in Santiago, Oct 1991).

9.3. Editor of Journal Issues

- [1] Ricardo Baeza-Yates, Alberto H. F. Laender, Deborah L. McGuinness. Special issue on CIKM 2007. *Information Systems* 34, issue 8, Dec 2009. Preface in pages 671-2.
- [2] Alberto Apostolico, Ricardo Baeza-Yates, Massimo Melucci. Special issue on 2004 Symposium on String Processing and Information Retrieval. *Journal of Discrete Algorithms* 5, Issue 2, June 2007, 203-249. Preface in page 203.
- [3] Ricardo Baeza-Yates, Paolo Boldi and José-María Gómez-Hidalgo. Next Generation Web Search. *Upgrade*, February 2007 (Vol. VIII, issue no. 1). URL: <http://www.upgrade-cepis.org/issues/2007/1/upgrade-vol-VIII-1.html>. In Spanish in *Novática* 185, 2007.
- [4] Alberto Apostolico, Ricardo Baeza-Yates, Massimo Melucci. Special issue on IR for SPIRE 2004, *Information Systems* 31 (7), 2006, 66pp. Preface in pages 569-572.
- [5] Ricardo Baeza-Yates, Norbert Fuhr, Yoelle Maarek, editors. Special issue on XML Retrieval, *ACM Transactions on Information Systems (TOIS)*, Volume 24 (4), October 2006.
- [6] Ricardo Baeza-Yates and Maxime Crochemore, editors. Special issue on Combinatorial Pattern Matching, *Journal of Discrete Algorithms* 3 (2-4), Elsevier, Jun 2005, 480 pp.

- [7] Ricardo Baeza-Yates, editor. Special Issue on LA-WEB 2003, *Journal of Web Engineering* 2 (4), October 2004.
- [8] Ricardo Baeza-Yates and Peter Schäuble, editors. Special issue in *Information Retrieval and the Web. Upgrade (English) and Novática 157 (Spanish)*, May-Jun 2002.
- [9] R. Baeza-Yates, D. Carmel, Y. Maarek and A. Sofer. Special Issue in *XML and Information Retrieval*, *Journal of American Society on Information Systems and Technology* 53(6): 2002.
- [10] R. Baeza-Yates and E. Goles. Special Issue in *Latin American Theoretical Informatics*, *Theoretical Computer Science* 181 (1), July 1997 (225 pages).
- [11] R. Baeza-Yates and N. Ziviani. Special issue in *String Processing Algorithms*, *Journal of the Brazilian Computer Society* 1 (3), April 1995.

9.4. Chapters in Books

- [1] Ricardo Baeza-Yates, Paolo Boldi. Web Structure Mining. In *Advanced Techniques in Web Intelligence*, edited by Juan Velásquez and Lakhmi Jain, Springer, pp. 113-142, 2010.
- [2] Ricardo Baeza-Yates. Privacy in Query Logs. In *Web Intelligence and Security*, edited by M. Last and A. Kandel. IOS Press, pp. 189-193, 2010.
- [3] Ricardo Baeza-Yates, Alejandro Salinger. Fast Intersection Algorithms for Sorted Sequences. In *Algorithms and Applications 2010: Essays Dedicated to Esko Ukkonen on the Occasion of His 60th Birthday*, edited by Tapio Elomaa, Heikki Mannila, Pekka Orponen. Springer Lecture Notes in Computer Science 6060, pp. 45–61, 2010.
- [4] Ricardo Baeza-Yates, Rosie Jones, Barbara Pobleto, Myra Spiliopoulou. Issues with Privacy Preservation in Query Log Mining. In *Privacy-Aware Knowledge Discovery: Novel Applications and New Techniques*, edited by Francesco Bonchi and Elena Ferrari. Chapman and Hall/CRC Press, pp. 353–368, 2010.
- [5] Ricardo Baeza-Yates, Prabhakar Raghavan. Next Generation Web Search. In *Search Computing - Challenges and Directions*, edited by S. Ceri and M. Brambilla, LNCS 5950, Springer, pp. 11-23, 2010.
- [6] Carlos Castillo, Ricardo Baeza-Yates. Web Retrieval and Mining. In *Encyclopedia of Library and Information Sciences*, Taylor and Francis, USA, 2009.
- [7] Ricardo Baeza-Yates. Deterministic Search in a Line. In *Encyclopedia of Algorithms*. Editor: Ming-Yang Kao, Springer, 2008.
- [8] Ricardo Baeza-Yates. The Anatomy of the Web (in Spanish). In *How the Web Works*, Center for Web Research, Univ. of Chile, 2008.
- [9] Ricardo Baeza-Yates, Mari Carmen Marcos. The Different Faces of the Web (in Spanish). In *The Human Factor in the Cyberculture*, Margarita Schultz, editor, Alfagrama, Argentina, 65–114, 2007.

- [10] David Nettleton, Liliana Calderón and Ricardo Baeza-Yates. Analysis of Web Search Engine Query Session and Clicked Documents. In *Advances in Web Mining and Web Usage Analysis - 8th International Workshop on Knowledge Discovery on the Web, WEBKDD 2006, Revised Papers*, Springer Lecture Notes in Computer Science (LNCS/LNAI), Vol. 4811, O. Nasraoui, M. Spiliopoulou, J. Srivastava, B. Mobasher, B. Masand (Eds), 207–226, 2007.
- [11] Ricardo Baeza-Yates, Alvaro Pereira, Nivio Ziviani. Understanding Content Reuse on the Web: Static and Dynamic Analyses. In *Advances in Web Mining and Web Usage Analysis - 8th International Workshop on Knowledge Discovery on the Web, WEBKDD 2006, Revised Papers*, Springer Lecture Notes in Computer Science (LNCS/LNAI), Vol. 4811, O. Nasraoui, M. Spiliopoulou, J. Srivastava, B. Mobasher, B. Masand (Eds), 227–236, 2007.
- [12] Ricardo Baeza-Yates, Carlos Castillo and Vicente López. Pagerank Increase under Different Collusion Topologies. In *Internet Search Engines*, Ravi Kumar Jain B, editor, Icfai University Press, India, 163–183, 2007.
- [13] Ricardo Baeza-Yates and Barbara Poblete. A Website Mining Model Centered on User Queries. In *Semantics, Web and Mining*, M. Ackermann et al. (Eds.): EWMF/KDO 2005, Springer LNAI 4289, pp. 117, 2006.
- [14] Mari Carmen Marcos, Ricardo Baeza-Yates and Andres Ardila. CHILE: A Visual Library Catalog Retrieval Prototype. In *HCI Related Papers of Interacción 2004*. Raquel Navarro-Prieto and Jesús Lorés (editors), Springer, The Netherlands, 2006, 205-216.
- [15] Ricardo Baeza-Yates and Carlos Castillo. Web Searching. In *Encyclopedia of Language and Linguistics*, 2nd edition. Graeme Hirst (editor), Vol. 13, Elsevier: Oxford, 2005, 527-537.
- [16] R. Baeza-Yates and G. Navarro. Text Searching: Theory and Practice. In *Formal Languages and Applications*, Carlos Martin-Vide, Victor Mitran, Gheorghe Paun (Eds.), Studies in Fuzziness and Soft Computing 148, Springer, Berlin, 2004, 565–597.
- [17] Ricardo Baeza-Yates. Query Usage Mining in Search Engines. In *Web Mining: Applications and Techniques*, Anthony Scime, editor. Idea Group, 2004, 307–321.
- [18] Ricardo Baeza-Yates, Carlos Castillo and Felipe Saint-Jean. Web Dynamics, Structure and Page Quality. In Mark Levene and Alex Poulouvasilis (editors), *Web Dynamics*, Springer Verlag, 2004, 93–109.
- [19] Ricardo Baeza-Yates and Gonzalo Navarro. Modeling Text Collections and Its Application to the Web. In *Applied Probability: Recent Advances*, Ricardo Baeza-Yates, Joe Glaz, Henryk Gzyl, Juerg Huesler, and Jose Luis Palacios (editors), Kluwer Academic Publishers, 2004.
- [20] Ricardo Baeza-Yates, Benjamin Bustos, Edgar Chavez, Norma Herrera, and Gonzalo Navarro. Clustering in Metric Spaces and Its Application to Information Retrieval. In Weili Wu and Hui Xiong (editors), *Clustering and Information Retrieval*. Kluwer Academic Publishers, 2003, 1–34.
- [21] Ricardo Baeza-Yates, Alistair Moffat and Gonzalo Navarro. Searching Large Text Collections. In J. Abello, P. Pardalos and M. Resende (editors), *Handbook of Massive Data Sets*, Kluwer Academic Publishers, 2002, pages 195-244.

- [22] R. Baeza-Yates and P. Poblete. Searching. In Mikhail Atallah, editor, *Handbook on Algorithms and Theory of Computation*, chapter 2. CRC Press, 1999.
- [23] R. Baeza-Yates. Searching: An algorithmic tour. In Allen Kent and James G. Williams, editors, *Encyclopedia of Computer Science and Technology*, volume 37, pages 331–359. Marcel Dekker, Inc., 1997.
- [24] R. Baeza-Yates, G. Quezada, and G. Valmadre. Visual debugging and automatic animation of C programs. In Peter Eades and Kang Zhang, editors, *Software Visualisation*, volume 7 of *Software and Knowledge Engineering*, chapter 3, pages 46–58. World Scientific, 1996.
- [25] R. Baeza-Yates. Introduction to data structures and algorithms related to information retrieval. In W. Frakes and R. Baeza-Yates, editors, *Information Retrieval: Algorithms and Data Structures*, chapter 2, pages 13–27. Prentice-Hall, 1992. More than **50** citations.
- [26] D. Harman, E. Fox, R. Baeza-Yates, and W. Lee. Inverted files. In W. Frakes and R. Baeza-Yates, editors, *Information Retrieval: Algorithms and Data Structures*, chapter 3, pages 28–43. Prentice-Hall, 1992. More than **110** citations.
- [27] G.H. Gonnet, R. Baeza-Yates, and T. Snider. New indices for text: Pat trees and pat arrays. In W. Frakes and R. Baeza-Yates, editors, *Information Retrieval: Algorithms and Data Structures*, chapter 5, pages 66–82. Prentice-Hall, 1992. More than **270** citations.
- [28] R. Baeza-Yates. String searching algorithms. In W. Frakes and R. Baeza-Yates, editors, *Information Retrieval: Algorithms and Data Structures*, chapter 10, pages 219–240. Prentice-Hall, 1992.

9.5. International Journals

- [1] Alexandre Francisco, Ricardo Baeza-Yates, Arlindo Oliveira. Mining query log graphs towards a query folksonomy. *Concurrency and Computation*, to appear.
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9.7. Selected Invited Papers and Abstracts

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- [15] Sihem Amer-Yahia, Ricardo Baeza-Yates, Mariano P. Consens, Mounia Lalmas. XML Retrieval: DB/IR in theory, Web in practice (tutorial), Very Large Data Bases Conference (VLDB'07), Wien, September 2007, 1437-38.
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9.8. Regional and National Journals and Conferences

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9.9. Other Publications

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- [2] Ricardo Baeza-Yates, Luz Rello. Estimating dyslexia in the Web (short paper). W4A 2011 (Web for All), Hyderabad, India, Mar 2011.
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- [4] César Arango, Ricardo Baeza-Yates. Analysis of Algorithms for the Constructions of Suffix Arrays in Linear Time. *Ingenierias* 17, 2010, 185–193.
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- [6] Alexandre Francisco, Ricardo Baeza-Yates, Arlindo Oliveira. Mining large query log induced graphs towards a query folksonomy (short paper). In *SPIRE 2010*, San José de los Cabos, Mexico, Oct 2010.
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- [10] Djoerd Hiemstra, Ricardo A. Baeza-Yates: Structured Text Retrieval Models. In *Encyclopedia of Database Systems*, edited by Ling Liu and M. Tamer Özsu, Springer, 2009, 2868-2871.

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- [14] Eduardo Graells, Ricardo Baeza-Yates. Evolution of the Chilean Web: A Larger Study (short paper). Latin American Web Conference, Vila Velha, Brazil, Oct 2008.
- [15] Luca Becchetti, Carlos Castillo, Debora Donato, Stefano Leonardi, Ricardo Baeza-Yates. Web Spam Detection: Link-based and Content-based Techniques. DELIS Workshop, Barcelona, Feb 2008, 99-114.
- [16] Mariano Consens, Ricardo Baeza-Yates, Mounia Lalmas, Sihem Amer-Yahia. XML Retrieval: DB/IR in theory, Web in practice (Tutorial). VLDB 2007, 1437-1438.
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- [22] Barbara Poblete, Ricardo Baeza-Yates. A Content and Structure Website Mining Model (poster). In *Proceedings of the 15th international Conference on World Wide Web*, pp. 957-958. Edinburgh, Scotland, May 2006.
- [23] Ricardo Baeza-Yates, Marcelo Garrido, Javier Velasco-Martin. A Comparative Study of User Evaluation Methods (Poster). 7th ASIS&T Information Architecture Summit. March 2006, Vancouver, Canada.

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- [30] C. Castillo and R. Baeza-Yates. A New Model for Web Crawling (extended poster). In *WWW11*, Honolulu, Hawaii, May 2002.
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9.10. Theses

- [1] R.A. Baeza-Yates. *Efficient Text Searching*. PhD thesis, Dept. of Computer Science, University of Waterloo, May 1989. Also as Research Report CS-89-17. More than **60** citations.
- [2] R.A. Baeza-Yates. Portable graphical editor for three dimensional objects. Master's thesis, Dept. of Electrical Engineering, University of Chile, Santiago, Chile, April 1986. (in Spanish).
- [3] R.A. Baeza-Yates. Analysis of algorithms in search trees. Master's thesis, Dept. of Computer Science, University of Chile, Santiago, Chile, January 1985. (in Spanish).

10. Patents Presented

1. Ricardo Baeza-Yates. Techniques for Searching Future Events, Yahoo! Inc. and Univ. of Chile, August 2006. USA Patent # 7,668,813, granted Feb 23, 2010.
2. Ricardo Baeza-Yates and Barbara Poblete. User Query Data Mining and Related Techniques, Yahoo! Inc. and Univ. of Chile, September 2006. USA Patent # 7,617,208, granted Nov 10, 2009.
3. Ricardo Baeza-Yates, Flavio Junqueira, Vassilis Plachouras and Frieder Witschel. Method for Admission-Controlled Caching, Yahoo! Inc., September 2007.
4. Ricardo Baeza-Yates, Aristides Gionis, Flavio Junqueira and Vassilis Plachouras. System and Method for Caching Posting Lists, Yahoo! Inc., October 2007.
5. Ricardo Baeza-Yates, Alessandro Tiberi. Extracting Semantic Relations from Query Logs, Yahoo! Inc., December 2007.
6. Ricardo Baeza-Yates, Luciano Barbosa, Flavio Junqueira, Vassilis Plachouras. Method and System for Quantifying the Quality of Search Results based in Cohesion, Yahoo! Inc., December 2007. USA patent # 7,720,820, granted May 18, 2010.
7. Barbara Poblete, Ricardo Baeza-Yates. Classifying Documents using Implicit Feedback and Query Patterns, Yahoo! Inc., July 2008.
8. Ricardo Baeza-Yates, Aristidis Gionis, Flavio Junqueira, Vassilis Plachouras and Luca Telloi. Assignment of System and Methodology for a Multi-Site Search Engine, Yahoo! Inc., October 2008.
9. Ricardo Baeza-Yates, Aristidis Gionis, Flavio Junqueira, Vassilis Plachouras and Luca Telloi. Search Engine Design and Computational Cost Analysis, Yahoo! Inc., December 2008.
10. Barbara Poblete, Ricardo Baeza-Yates. Methods for Web Site Analysis, Yahoo! Inc., April 2010.

11. Teaching Record

Teacher of the following courses (most recent first, although many were taught more than once): Web Retrieval and Mining, Information Retrieval, Design and Analysis of Algorithms, Advanced Data Structures, Bioinformatics, Introduction to Computer Programming, Visualization Seminar, Software Project, Object Oriented Programming, Software Workshop on X-Windows, Problem Solving Seminar, Text Searching Seminar, Computer Architecture, Software Project, Data Structures, Automata Theory and Formal Languages, Design and Construction of Compilers, Information Systems, Programming Languages, Introduction to Computer Graphics, Numerical Algorithms, Digital Systems, Operating Systems, and Software Tools.

The courses on Computer Graphics (1985), Object Oriented Programming (1990), Software Workshop on X-Windows (1991), Problem Solving Seminar (1993), Visualization Seminar (1997), and Bioinformatics (2001) were incorporated to the computer engineering studies by myself, as well as the current M.Sc. curricula while being the graduate coordinator.

12. Theses and Student Projects Supervised

12.1. Ph.D.

1. Ximena Olivares. Large Scale Image Retrieval based on User Generated Content. Ph.D. in Computer Science, Univ. Pompeu Fabra, Spain, March 2011. Co-advisor: Roelof Van Zwol.
2. Víctor Pascual. Visual Exploration of Web Spaces. Ph.D. in Computer Science, Univ. Pompeu Fabra, Spain, December 2010. Co-advisor: Juan Carlos Dürsteler.
3. Ilaria Bordino. Graph Mining and Its Application to the Web. Ph.D. in Computer Science, Università di Roma “La Sapienza”, Italy, and Univ. Pompeu Fabra, Spain, June 2010. Co-advisor: Stefano Leonardi.
4. Barbara Poblete. Query Based Data Mining for the Web. Ph.D. in Computer Science, Univ. Pompeu Fabra, Spain, October 2009. Co-advisor: Myra Spiliopoulou.
5. Omar Alonso. Temporal Information Retrieval. Ph.D. in Computer Science, Univ. of California at Davis, USA, September 2008. Co-advisor: Michael Gertz.
6. Alvaro Pereira Jr. A Model for Fast Web Mining Prototyping: Design, Algebra, Implementation and Use Cases. Ph.D. in Computer Science, Univ. Federal de Minas Gerais, Brazil, September 2008. Co-advisor: Nivio Ziviani.
7. Mendoza, Marcelo. Query Log Mining in Search Engines. Ph.D. in Computer Science, Univ. de Chile, June 2007. Co-advisor: Carlos Hurtado.
8. Chirita, Paul. Emerging Applications of Link Analysis for Ranking, Dr.Eng. in Informatics, Gottfried Wilhelm Leibniz University, Hannover, Germany, May 2007. Main advisor: Wolfgang Nejdl.
9. Badue, Claudine. Design and Analysis of Web Search Systems. Ph.D. in Computer Science, Univ. Fed. de Minas Gerais, Brazil, February 2007. Main advisor: Nivio Ziviani.
10. Castillo, Carlos. Effective Web Crawling, Ph.D. in Computer Science, Univ. de Chile, November 2004.
11. Chávez, Edgar. Similarity Searching on Metric Spaces, Ph.D. in Computer Science, CIMAT, México, September 1999. Co-advisor: José Luis Marroquín.
12. Vegas, Jesús. An Information Retrieval System on Structure and Content (in Spanish), Ph.D. in Computer Science, Univ. de Valladolid, Spain, May 1999. Main advisor: Pablo de la Fuente.
13. Navarro, Gonzalo. Approximate Text Searching, Ph.D. in Computer Science, Univ. de Chile, December 1998.
14. Barbosa, Eduardo. Efficient Text Retrieval Methods for Secondary Memory, Ph.D. in Computer Science, Univ. Fed. de Minas Gerais, Brazil, July 1995. Main advisor: Nivio Ziviani.

12.2. M.Sc.

All of them are in Spanish:

1. Sarigiannis Charalampos. Network and Performance Analysis of a Multi-site Web Search Engine, Master Program in Information, Communication and Audiovisual Media Technologies, Universitat Pompeu Fabra, September 2008.
2. Cristina Monter Oliver. The intention behind Web queries: methodology for the creation of a use taxonomy. Master in Digital Content Management, University of Barcelona, September 2008.
3. Poblete, Bárbara. A Query Mining Tool for the Design of the Content and Structure of Web Sites, M.Sc. in Computer Science, Univ. of Chile, Chile, November 2004. Won the second place award to the best M.Sc. thesis in Latinamerica in 2005.
4. Acuña, Vicente. C-rewriting and Classification by Context, M.Sc. in Computer Science, Univ. of Chile, Chile, November 2004. Co-supervised with Alejandro Maass.
5. Cuquejo, Virna. Data Structures and Algorithms to Search Similar Objects in Metric Spaces, M.Sc. in Computer Science, Univ. of Chile, Chile, November 2000. Co-supervised with Gonzalo Navarro.
6. Alonso, Omar. A Model for Document Visualization in WWW, M.Sc. in Computer Science, Univ. of Chile, Chile, December 1999.
7. Mecoli, Claudio. DomainView: A User Interface Metaphor based on Domains, M.Sc. in Computer Science, Univ. of Chile, Chile, December 1999.
8. Beck, Héctor. The Problem of Minimum Cost Spanning 2-Tree and Isolated Failure Immune Networks, M.Sc. in Computer Science, Univ. of Chile, Chile, December 1998.
9. Barros, Alejandro. Change of Milenium: A Methodological Approach, M.Sc. in Computer Science, Univ. of Chile, Chile, May 1998.
10. Scheihing, Rodrigo. Study of some Combinatorial Problems in Strings, M.Sc. in Computer Science, Univ. of Chile, Chile, August 1996.
11. Hochsztain, Esther. A Database Approach via graph views in Persistent C++, M.Sc. in Computer Science, Univ. of Chile, Chile, December 1995. Co-supervised with Hermann Steffen (Univ. de la República, Uruguay).
12. Valmadre, Gastón. Visual Debugging and Program Animation, M.Sc. in Computer Science, Univ. of Chile, Chile, October 1995.
13. Navarro, Gonzalo. A Query Language for Structure and Contents of Text Databases, M.Sc. Computer Science, Univ. of Chile, April 1995. Won the award to the best M.Sc. thesis in Latinamerica in 1996.
14. Araya, Gladys. Evaluation of Tools for GUI Construction, M.Sc. Computer Science, Univ. of Chile, 1994. Co-supervised with Juan Alvarez.

15. Soza, Héctor. Analysis of Linear Hashing, M.Sc. Computer Science, Univ. of Chile, 1993. Won the award to the best M.Sc. thesis in Latinamerica in 1994.
16. Fuentes, Luis. A System for Animation of Text Algorithms, M.Sc. Computer Science, Univ. of Chile, 1992.
17. Marín, Mauricio. Design of a Specialized System for Event Driven Molecular Dynamics, M.Sc. Computer Science, Univ. of Chile, 1992. Co-supervised with Patricio Cordero.

12.3. Final Engineering Projects

All of them are in Spanish:

1. Villar, Osvaldo. Mining and Personalization of a Website for Ringtones, Computer Engineering degree, Univ. of Chile, December 2007.
2. Galleguillos, Carolina. Information Extraction from the Web: Identification of Specific Content in a Non Structured Text, Computer Engineering degree, Univ. of Chile, August 2005.
3. Loira, Nicolás. Design and Implementation of a Combinatorial Algorithm to Find Patterns in Electrophoresis Images, Computer Engineering degree, Univ. of Chile, August 2005.
4. Salinger, Alejandro. A Simple Alphabet Independent Compressed Index, Computer Engineering degree, Univ. of Chile, 2005. Co-advisor (Advisor: Gonzalo Navarro).
5. Herskovic, Valeria. A Visual Query Language for XQuery, Computer Engineering degree, Univ. of Chile, April 2005.
6. Barrera, Cristián. Web Visualization of XML Documents using Fisheye Trees, Computer Engineering degree, Univ. of Chile, April 2005.
7. Paredes, Carla. Tool for Advertising in Search Engines based in Query Analysis, Computer Engineering degree, Univ. of Chile, April 2005.
8. Graves, Alvaro. Data Mining for Web Sites Oriented to Services, Computer Engineering degree, Univ. of Chile, January 2005.
9. Davis, Emilio. A New Web Search Model with Static Ranking, Computer Engineering degree, Univ. of Chile, August 2003.
10. Collado, Miguel Angel. Management of a Control Software Project, Computer Engineering degree, Univ. of Chile, December 2002.
11. Benoit, Nicole. Study of the relation between protein palindromy and their structure and function, Biotechnology and Chemistry Engineering degree, Univ. of Chile, Oct 2002.
12. Muñoz, Francisca. Development of an Hybrid Data Structure for Searching in Metric Spaces, Computer Engineering degree, Univ. of Chile, 2002. Co-advisor (Advisor: Gonzalo Navarro).

13. Ortega, Manuel. Implementation of a XML Query Language based in Proximal Nodes, Computer Engineering degree, Univ. of Chile, 2002. Co-advisor (Advisor: Gonzalo Navarro).
14. Saint-Jean, Felipe. Mining the Web with Applications to a Search Engine, Computer Engineering degree, Univ. of Chile, May 2002.
15. Castillo, Carlos. Characterizing the Chilean Web and Extensions to a Web Search Engine, Computer Engineering degree, Univ. of Chile, October 2000.
16. Vásquez, Mauricio. Integration of a Search Engine to a Web Application, Computer Engineering degree, Univ. of Chile, November 1998.
17. Quezada, Gastón. Design and Implementation of a C Preprocessor for Program Animation, Computer Engineering degree, Univ. of Chile, November 1995.
18. De Saint-Pierre, Didier. Design and Implementation of a Workflow applied to Electrical Distribution of Energy, Computer Engineering degree, Univ. of Chile, 1994.
19. Aguilar, Waldo. Animation of Dynamic Data Structures, Computer Engineering degree, Univ. of Chile, 1992.

13. Editorial Boards

I am Editor of the following journals: ACM Transactions on Information Systems (USA), Information Systems (USA), Information and Management (Associate editor, Netherlands), Journal of Web Engineering (USA), Theoretical Informatics and Applications - RAIRO (France), Information and Software Technology (Netherlands), Grammars (Spain), Journal of the SBC (Brazil), First Monday (USA), El Profesional de la Información (Spain), Revista de la SCCC (Chile) and Revista Colombiana de Informática.

In the past I was Chief Editor of the CLEI Electronic Journal at www.clei.cl (1998-2004), and also I was member of the editorial board of VLDB Journal (USA), Information Technology for Development (Netherlands), International Journal of Web Information Systems (UK), Journal of Digital Management (India-South Korea), Computación y Sistemas (México) and Novática (Spain).

14. Conference Committees

- Member of the steering committees of ACM WSDM (co-founder), SPIRE (co-founder), OAIR, and LA-WEB (founder), and also for LATIN until March 2006.
- Program committee co-chair for SIGIR 2011 (Beijing, China, Jul 2011); Program committee co-chair for ICWSM 2011 (Barcelona, Spain, Jul 2011); Program committee tutorial chair for WWW 2010 (Raleigh, USA, Apr 2010); Program committee chair for ACM Web Intelligence & Internet Agent Technology (Milano, Italy, September 2009); Program committee industrial co-chair for KDD 2009 (Paris, France, June 2009); Program committee vice-chair for ICDM 2008 (Pisa, Italy, December 2008); Program committee co-chair for CIKM 2007 (Lisbon, Portugal, November 2007); Program committee co-chair for the Mexican Computer Science Conference (ENC 2004, Colima, Mexico,

September 2004); Program committee co-chair for the First Latinamerican Web Conference (LA-WEB, Santiago, Chile, November 2003); Program committee co-chair for the Combinatorial Pattern Matching (CPM, Morelia, Mexico, June 2003); Program committee chair for the Americas of the ACM Conference in Information Retrieval (SIGIR, Tampere, Finland, Aug 2002); Program committee co-chair of IFIP TCS'2002 (Montreal, Canada, Aug 2002); Program committee chair of the XXI Int. Conf. of the Chilean Computer Science Society (Punta Arenas, Chile, Nov 2001); Program committee chair of the XVII Int. Conf. of the Chilean Computer Science Society and the Fourth South American Workshop on String Processing (Valparaíso, Chile, Nov 1997); Program co-chair of LATIN'95, Viña del Mar, April, 1995. Program committee chair of the XIII Int. Conf. of the Chilean Computer Science Society (La Serena, October 1993), and the 1st South American Workshop on String Processing (Belo Horizonte, Brasil, September 1993).

- Co-organizing chair of ESSIR 2009, Padova, Italy, September 2009; Conference chair of ACM WSDM 2009, Barcelona, Spain, February 2009; Conference chair of LA-WEB 2008, Vila Velha, Brazil, October 2008; Conference chair of SPIRE 2007 and LA-WEB 2007 (colocated) Santiago, Chile, October, 2007; General co-chair for the ACM Conference in Information Retrieval (SIGIR) in Bahia, Brazil, August 2005; Conference chair of the first Latin American Web conference (LA-WEB 2003) in Santiago, Chile, November 2003; Organizing co-chair of LATIN'95, Viña del Mar, Chile, April 1995; Organizing chair of the 2nd South American Workshop on String Processing, Viña del Mar, Chile, April 1995; Organizing chair of PROMSMmNet'97, Santiago, Chile, November 1997; and Organizing chair of the XI International Conference of the Chilean Computer Science Society, Santiago, Chile, October 1991.
- Creator and organizer of the Future of Web Search workshop: Barcelona (2006), Bertinoro (2007), Andorra (2008) and Ibiza (2009), which continues now as the Future of the Social Web workshop (Barcelona, 2011).
- Co-organizer of the first two XML Retrieval workshops at SIGIR in 2000 and 2002. Co-organizer of the first Temporal Web Analysis workshop at WWW in 2011.
- Program Committee member of: SPIRE 2011 (Pisa, Oct 2011); KDD 2011 (industrial track, San Diego, Aug 2011); EDBT 2011 (Saint Petersburg, Russia, May 2011); ECIR 2011 (Dublin, Ireland, Apr 2011); EDBT 2011 (Uppsala, Sweden, Mar 2011); WSDM 2011 (senior member, Hong Kong, China, Feb 2011); PDP 2011 (Ayia Napa, Cyprus, Feb 2011); ICDM 2010 (Sydney, Australia, Dec 2010); eHealth 2010 (Casablanca, Morocco, Dec 2010); JCC 2010 (Antofagasta, Chile, Nov 2010); SBBD 2010 (Belo Horizonte, Brazil, Nov 2010); SPIRE 2010 (Los Cabos, Mexico, Oct 2010); KDD 2010 (senior member, Washington DC, USA, Jul 2010); LSDR-IR 2010 (Geneve, Switzerland, Jul 2010); SIGIR 2010 (Geneve, Switzerland, Jul 2010); FUN 2010 (Ischia, Italy, Jun 2010); CERI 2010 (Madrid, Spain, Jun 2010); AMW 2010 (Buenos Aires, Argentina, May 2010); IRFC-2010 (Vienna, Austria, May 2010); WWW 2010 (Raleigh, USA, Apr 2010); LATIN 2010 (Oaxaca, Mexico, Apr 2010); ECIR 2010 (Milton Keynes, UK, Mar 2010); PDP 2010 (Pisa, Italy, Feb 2010); ICDM 2009 (Miami, USA, Dec 2009); CIKM 2009 (Hong Kong, China, Nov 2009); DAMIEN 2009 (Riga, Latvia, Sep 2009); VLDB 2009 (Lyon, France, Aug 2009); SPIRE 2009 (Saariselkä, Finland, Aug 2009); SIGIR 2009 (Boston, USA, Jul 2009); LSDS-IR 2009 (Boston, USA, Jul 2009); CPM 2009 (Lille, France, Jun 2009); EDBT 2009 (Saint Petersburg, Russia, May 2009); SIAM SDM 2009 (Sparks, USA, Apr

2009); ECIR 2009 (Toulouse, France, Apr 2009); ER 2008 (Demos, Barcelona, Spain, Sep 2008); TCS 2008 (Milano, Italy, Sep 2008); ECML/PKDD 2008 (Antwerp, Belgium, Sep 2008); CharLA 2008 (Buenos Aires, Argentina, Sep 2008); WebKDD 2008 (Las Vegas, USA, Aug 2008); PersDB 2008 (Auckland, NZ, Aug 2008); SIGIR 2008 (Singapore, Jul 2008); AWIC 2008 (Cape Town, South Africa, Jul 2008); ACM Hypertext 2008 (Senior member, Pittsburgh, USA, Jun 2008); CPM 2008 (Pisa, Italy, Jun 2008); ECIR 2008 (Glasgow, Scotland, Apr 2008); ACM SAC 2008 (Fortaleza, Brazil, Mar 2008); WebKDD/SNAKDD 2007 (San Jose, Aug 2007); SIGIR 2007 (Amsterdam, Netherlands, Jul 2007); LSDS-IR 2007 (Amsterdam, Netherlands, Aug 2007); PODS 2007 (Beijing, China, Jun 2007); WEA 2007 (Rome, Italy, Jun 2007); AWIC 2007 (Fontainebleau, France, Jun 2007); Infoscale 2007 (Suzhou, China, Jun 2007); WWW 2007 (Banff, Canada, May 2007); ECIR 2007 (Rome, Italy, Apr 2007); MMOIR 2007 (Hyderabad, India, Jan 2007); CIKM 2006 (Arlington, USA, Nov 2006); SPIRE 2006 (Glasgow, Scotland, Oct 2006); LA-WEB 2006 (Puebla, México, Oct 2006); HLT-EMNLP 2005 (Vancouver, Canada, Oct 2006); ECDL 2006 (Alicante, Spain, Oct 2006); UKDU 2006 (Berlin, Germany, Sep 2006); VLDB 2006 (Seoul, South Korea, Sep 2006); SIGIR 2006 (Seattle, USA, Aug 2006); AMCIS 2006 (Acapulco, Mexico, Aug 2006); WebKDD 2006 (Philadelphia, USA, Aug 2006); CPM 2006 (Barcelona, Spain, Jun 2006); WWW 2006 (Edinburgh, UK, May 2006); ICEIS 2006 (Paphos, Cyprus, May 2006); ACM SAC 2006 (Dijon, France, Apr 2006); ECIR 2006 (London, UK, Apr 2006); EDBT & DataX 2006 (MUnich, Germany, Mar 2006); ALENEX 2006 (Miami, USA, Jan 2006); COMAD 2005b (Hyderabad, India, Dec 2005); SCCC 2005 (Valdivia, Chile, Nov 2005); AIRS 2005 (Jeju Island, South Korea, Oct 2005); ECDL 2005 (Vienna, Austria, Sep 2005); XSym 2005 (Trondheim, Norway, Aug 2005); SBC-BSB 2005 (Brazil, Jul 2005); ICEIS 2005 (Miami, USA, May 2005); ECIR 2005 (Santiago de Compostela, Spain, Mar 2005); ACSC 2005 (Newcastle, Australia, Jan 2005); LA-WEB 2004 (Ribeirao Preto, Brazil, Nov 2004); AIRS 2004 (Beijing, China, Oct 2004); SPIRE 2004 (Padova, Italy, Oct 2004); ECDL 2004 (Bath, UK, Sep 2004); WebDB 2004 (Paris, France, Jun 2004); 3rd Web Dynamics workshop (New York, USA, May 2004); AWIC 2004 (Cancun, Mexico, May 2004); ICEIS 2004 (Porto, Portugal, Apr 2004); ECIR 2004 (Sunderland, England, Apr 2004); Workshop on Database Technologies for Handling XML information on the Web (Heraklion, Greece, Mar 2004); SPIRE 2003 & SBBDD'2003 (Manaus, Brazil, Oct 2003); ECDL 2003 (Trondheim, Norway, Aug 2003); CIA 2003 (Helsinki, Finland, Aug 2003); SIGIR 2003 (Toronto, USA, Jul 2003); WWW 2003 (Budapest, Hungary, May 2003); 1st Atlantic Conference on Web Mining Conference (Madrid, Spain, May 2003); PAKDD 2003 Workshop on Knitting Web Linkages (Seoul, South Korea, May 2003) ICEIS 2003 (Angers, France, Apr 2003); HIS 2002 (Santiago, Chile, Dec 2002); Information and Knowledge Sharing - IKS (St. Thomas, US Virgin Islands, Nov 2002); Spanish Workshop on Digital Libraries (El Escorial, Spain, Nov 2002); ECDL 2002 (Rome, Italy, Sep 2002); SPIRE 2002 (Lisbon, Portugal, Sep 2002); ICALP 2002 (Mlaga, Spain, Jul 2002); ICEIS 2002 (Ciudad Real, Spain, Apr 2002); SIAM IWAP 2002 (Caracas, Venezuela, Jan 2002); 2nd Int. Conf. on Web Information Systems (Kyoto, Japan, Dec 2001); 6th On-line World Conference on Soft Computing in Industrial Applications (WSC6), 2001; SIGIR 2001 (New Orleans, USA, Sept 2001); VLDB 2001 (Rome, Italy, Sept 2001); CIA 2001 (Modena, Italy, Sept 2001); ALCOM 2001 (San Jos, Costa Rica, May 2001); ICDE 2001 (Heidelberg, Germany, Apr 2001); WIIW (Rio de Janeiro, Brazil, Apr 2001); CICLing 2001 (Mexico City, Mexico, Jan 2001); FQAS 2000 (Warsaw, Poland, Oct 2000); SBBDD 2000 (Joao Pessoa, Brazil, Oct 2000); SPIRE 2000 (A Coruña, Spain, Sept 2000); IFIP TCS2000 (Tokyo, Japan, Aug 2000); ACM SIGIR 2000 (Athens, Greece, Jul 2000); EDBT 2000

(Konstanz, Germany, Mar 2000); ICIS'99 (Charlotte, USA, Dec 1999); SPIRE'99 (Cancun, Mexico, Sept 1999); ISCA PDCS'99 (Fort Lauderdale, USA, Aug 1999); ACM SIGIR'99 (San Francisco, USA, 1999); ACM SIGMOD'99 (Philadelphia, USA, 1999); ACM CIKM'98 (Baltimore, USA, Nov 1998); 6th Iberoamerican Congress on Higher CS Education (Quito, Ecuador, Oct. 1998); SPIRE'98 (Sta. Cruz, Bolivia, Sept 1988); ACM SIGIR'98 (Melbourne, Australia, Aug 98); COCOON'98 (Taiwan, Aug 98); VLDB'98 (New York, USA, Aug 1998); Combinatorial Pattern Matching, CPM'98 (Rutgers, USA, Jul 1998); 4th IFIP 2.6 Working Conference on Visual Database Systems (L'Aquila, Italy, May 1998); TINA'97 (Santiago, Chile, Nov 1997); VLDB'97 (Aachen, Germany, Sept 1997); 26th JAIIO (Buenos Aires, Argentina, Aug 1997); Combinatorial Pattern Matching, CPM'97 (Aarhus, Denmark, Jun 1997); 1st Int. Symp. on Autonomous Decentralized Systems, ISADS'97 (Berlin, Germany, Apr 1997); IFIP WG 9.4 Information Technology for Competitiveness Conference (Florianopolis, Brazil, Jun 1997); XVI Int. Conf. of the Chilean Computer Science Society (Valdivia, Chile, Nov 1996); 3rd Workshop on Protocols for Multimedia Systems, PROMS'96 (Madrid, Oct 1996); 4th European Symposium on Algorithms, ESA'96 (Barcelona, Sep 1996); 5th Iberoamerican Congress on Higher CS Education (México City, Sep. 1996); Third South American Workshop on String Processing, WSP'96 (Recife, Aug 1997); 25th JAIIO (Buenos Aires, Aug 1996); IFIP WG 3.4 IT in Management Conference (Melbourne, Australia, Jul 1996); 5th Scandinavian Workshop on Algorithm Theory, SWAT'96 (Reykjavik, Jul 1996); XXII Latinamerican Conf. on Informatics, PANEL'96 (Bogota, Jun 1996); Workshop on Algorithms and Data Structures, WADS'95 (Kingston, Aug 1995); Second South American Workshop on String Processing, WSP'95 (Valparaíso, Apr 1995); VLDB'94 (Santiago, Sept 1994) (also in charge of the tutorial program); 21nd SEMISH (Caxambu, Brazil, Aug 1994); 23rd JAIIO (Buenos Aires, Argentina, Sept 1994); XX Latin-American Conference (Mexico City, Sept 1994); III Iberoamerican Congress on Higher CS Education (Concepción, Chile, Nov. 1994); LATIN'92 (Sao Paulo, Brazil, Apr 1992); and XVIII Latinamerican Conference on Informatics (Las Palmas de Gran Canaria, Spain, Aug 1992).

15. Seminars

Invited speaker at many institutions all around the world, in many of them more than once. For sake of conciseness, we do not give dates, nor cities, only countries and institutions (without the frequency).

- Argentina: Univ. de Buenos Aires, UNICEN, Univ. Nac. de La Plata, Univ. Nac. de San Luis, Univ. Nac. del Sur, Univ. Nac. de Rosario, Univ. Nac. de Santa Fe;
- Australia: Univ. of Sydney, Univ. of Queensland, Univ. of Melbourne, CSIRO (Canberra);
- Austria: TU Wien;
- Bolivia: Univ. Mayor de San Andrés, Univ. Mayor de San Simón, Univ. Privada de Sta. Cruz, Univ. Nur;
- Brazil: Fed. Univ. of Minas Gerais, Brazilian Physics Research Center, Univ. de Campinas, Univ. de Sao Paulo, Fed. Univ. of Pernambuco, Fed. Univ. of Mato Grosso do Sul, Univ. Fed. de Rio Grande do Sul, Catholic Univ. at Rio de Janeiro and at Porto Alegre, Univ. Fed. de Bahia;

- Canada: Univ. of Waterloo, Univ. of Western Ontario, Univ. of Toronto, Univ. of British Columbia, Carleton University;
- Chile: Catholic Univ. at Santiago, Univ. Técnica Federico Santa María, Univ. Católica del Norte, Univ. de Tarápaca, Univ. de La Frontera, Univ. del Bío-Bío, Univ. de Magallanes, Univ. de La Serena, Univ. Austral, Univ. de Concepción, Univ. de Talca;
- Check Republic: Check Academy of Sciences, Charles University;
- Colombia: Univ. de Los Andes, Univ. Autónoma de Bucaramanga, Univ. EAFIT, Industrial Univ. of Santander;
- Costa Rica: Inst. Tecnológico de Costa Rica;
- Cuba: CENIAI, Univ. de La Habana;
- Denmark: Univ. of Aarhus;
- Ecuador: National Polytechnic Univ., Catholic Univ.;
- Estonia: Univ. of Tartu;
- France: INRIA-Rocquencourt, Univ. of Paris (Jussieu, Orsay, Nord), Univ. Marné la Vallée, Univ. of Nancy, Univ. Joseph Fourier;
- Finland: Univ. of Helsinki;
- Germany: European Consortium Research Center, Dagstuhl Research Center, Technical Univ. of Berlin, Magdeburg Univ., Darmstadt Univ., Leipzig Univ., Frankfurt Univ.;
- Italy: Fibonacci Institute, Univ. of Rome, Univ. of Venice, Univ. of Padova, Univ. of Pisa, Univ. of Siena, Univ. of Bologna, Univ. of Trento;
- Japan: NTT Labs., Tokyo Institute of Technology, IEE Nagoya;
- Malaysia: Multimedia University;
- México: Univ. Nacional Autónoma, Instituto Politécnico, Tecnológico de Monterrey, CINVESTAV, CICESE, Univ. de Zacatecas, Univ. de Querétaro, CIMAT, Univ. Michoacana;
- New Zealand: Univ. of Canterbury, Massey University;
- Norway: Norwegian University of Science and Technology;
- Netherlands: Univ. of Twente;
- Paraguay: Univ. Nacional, Univ. Católica de Nuestra Señora de la Asunción;
- Perú: Univ. de Lima, Univ. Antenor Orrego, ESAN, SISE, RCP, Univ. de San Agustín, DATAPRO, Univ. Nac. del Altiplano;

- Russian Federation: Yandex; Polytechnic State Univ. of Saint Petersburg, Vorozhnev Univ;
- Singapore: National University;
- South Korea: National University at Seoul, ETRI, ICU;
- Spain: Polytechnic Univ. of Catalunya, Univ. de Valladolid, Fundesco/ATI, Univ. Pompeu Fabra, Centro de Recerca Matemática, Univ. Juan Carlos I, Univ. Carlos III, Univ. of Islas Baleares, Univ. of Santiago de Compostela, Univ. of A Coruña, Univ. Autónoma de Barcelona, Univ. de Barcelona, Univ. de Jaén, Univ. of Alcalá, Polytechnic Univ. of Madrid, Polytechnic Univ. of Valencia, Univ. Rovira i Virgili, Univ. Autónoma de Madrid, UNED, Univ. Jaume I, Inst. of Artificial Intelligence, Polytechnic Univ. of Las Palmas, Univ. Deusto, Univ. of Basque Country, Cantabria Univ., Univ. of Oviedo;
- Sweden: Univ. of Lund, Chalmers Univ.;
- Switzerland: Swiss Institute of Technology (ETH), Swiss Federal Polytechnic (EPFL);
- Taiwan: Academia Sinica;
- United Kingdom: Glasgow Univ., Queen Mary Univ., Open Univ., Microsoft Research (Cambridge), Birmingham Univ., Aston Univ.;
- United States: Stanford Univ., Univ. of Texas at Austin, Indiana Univ. at Bloomington, National Institute of Health, Univ. of Arizona, Texas Instruments Labs., IBM T.J. Watson & Almaden Research Centers, Rensselaer Pol. Ins., Univ. of Puerto Rico at Mayaguez, Oracle, Hewlett-Packard Labs., NASA Ames Research Center, Stanford Linear Accelerator Center, Google, Microsoft Research, EBay, Univ. of Washington, SAP Research, Yahoo!, Univ. of California at Davis, Univ. of Utah, A9.com (an Amazon.com subsidiary);
- Uruguay: Univ. de la República;
- Venezuela: Univ. Simón Bolívar, Univ. de Los Andes, IBM Scientific Center, and Univ. Central.

16. Other Relevant Information

- Invited speaker or tutorialist at many conferences including SIGIR, WWW, VLDB, Hypertext, ECDL, ICDE, ECIR, ECML/PKDD, ESWC, EDBT, SPIRE, CIAC, CLEF, NLDB, SAMT, LA-WEB, etc.; as well as in many workshops.
- I have been referee for the following journals: Communications of the ACM, Journal of the ACM, IEEE Trans. on Computers, IEEE Trans. on Data and Knowledge Engineering, IEEE Trans. on Circuits and Systems, Journal of Algorithms, BIT/Nordic Journal of Computing, Algorithmica, ACM Computing Surveys, ACM Trans. on Database Systems, VLDB Journal, ACM Trans. on Information Systems, Information Systems, SIAM Journal on Discrete Mathematics, SIAM Journal on Computing, Computational Geometry: Theory and Applications, Information Retrieval Journal, World Wide Web Journal, Journal on Discrete Algorithms, Information and Processing Management, Journal on Combinatorial Theory (A), Information and Computation, Information Processing Letters, VLDB

Journal, Artificial Intelligence, Random Structures & Algorithms, Theoretical Computer Science, Software-Practice and Experience, Combinatorics, Probability & Computing, Parallel Computing, Journal of Information Science, Int. J. of Computer Mathematics, Journal of Automata, Languages & Combinatorics, Acta Informatica, and The Computer Journal. I am also a reviewer for Mathematical Reviews, Butterworths, and Information and Software Technology.

- I have evaluated grant proposals for the National Science Foundation (USA), NSERC (Canada), ISF (Israel), CONICYT (Chile), CNPq (Brazil), GACR (Check Republic), RGCP (Hong Kong), RCN (Norway), CONICET (Argentina), CONICYT (Uruguay), MEC CICYT (Spain) and Chilean/European Community projects.
- I have also evaluated proposal for public biddings in Chile and research projects for Catalonia, the Community of Madrid and several Chilean universities, as well as curricula proposed to the Higher Education Council of Chile and the Council of Chilean Universities.
- Participation as external reviewer for Ph.D. theses at Univ. Paris 7, Univ. Marné la Vallée (Paris), Univ. of Hannover (Germany), Univ. of Amsterdam, Univ. of Twente (Netherlands), Univ. of Melbourne (Australia), University of Lisbon (Portugal), Univ. di Roma (Italy), Univ. Politécnica de Madrid, Univ. Politécnica de Catalunya (Spain) and Univ. Fed. de Rio Grande do Sul (Brazil).
- I have been external evaluator for hiring or promotion cases in Argentina, Australia, Brazil, Chile, Germany, Israel, Norway, Spain, Taiwan, UK and USA; as well as reviewer for book proposals of several publishers.
- Several dissemination papers in Chilean magazines and monthly column in *Informática* (Chilean magazine) from 1993 to 2004. Editor of the Latin American news column in the *Bulletin of the EATCS* (1994-97).
- Have written several short science fiction stories, some of them published in Fanzines in Chile and Italy.
- Interviews for TV, radio, or press in Bolivia, Chile, Colombia, Costa Rica, Guatemala, England (CBC), India, Spain, Uruguay, etc.
- Member of the ACM (Fellow), AMS, Chilean Computer Science Society (SCCC, First Distinguished Member), EATCS, IEEE (Fellow), ISOC and SIAM.
- My main interest areas for both, teaching and research, are: information retrieval and Web applications, data structures, design and analysis of algorithms, text and image databases, visualization applied to CS.
- Native language: Spanish. I am fluent in English and I understand Portuguese and Catalan. I can read Italian and French.
- I love geography, traveling, science fiction, and chess. I like to practice tennis, squash and football (soccer).