



- (2016) Capocelli Prize (Best Student Paper), *26th Data Compression Conference (DCC)*.
- (2013) Capocelli Prize (Best Student Paper), *23rd Data Compression Conference (DCC)*.
- (2012) Best Student Paper Award, *29th International Symposium on String Processing and Information Retrieval (SPIRE)*.
- (2008) Scopus Chile Award in Computer Science, Mathematics and Engineering, awarded by Elsevier to researchers with high productivity, with the support of Conicyt.

### Invited Talks and Tutorials

- (2019) Keynote talk, *26th International Symposium on String Processing and Information Retrieval (SPIRE)*, Segovia, Spain.
- (2016) Tutorial “Compact Data Structures”, *12th Latin American Theoretical Informatics Symposium (LATIN)*, Ensenada, Mexico.
- (2015) Keynote talk, *XLI Latin American Conference on Informatics (CLEI)*, Arequipa, Peru.
- (2014) Keynote talk, *21st International Symposium on String Processing and Information Retrieval (SPIRE)*, Ouro Preto, Brazil.
- (2014) Keynote talk, *11th Latin American Theoretical Informatics Symposium (LATIN)*, Montevideo, Uruguay.
- (2012) Shared tutorial “Space-Efficient Data Structures II”, *19th International Conference on String Processing and Information Retrieval (SPIRE)*, Cartagena, Colombia.
- (2012) Keynote talk, *23rd International Workshop on Combinatorial Algorithms (IWOCA)*, Tamil Nadu, India.
- (2012) Joint keynote talk, *23rd Annual Symposium on Combinatorial Pattern Matching (CPM)* and *13th Scandinavian Symposium and Workshops on Algorithm Theory (SWAT)*, Helsinki, Finland.
- (2011) Shared tutorial “Space-Efficient Data Structures”, *18th International Conference on String Processing and Information Retrieval (SPIRE)*, Pisa, Italy.
- (2010) Keynote talk, *17th International Symposium on String Processing and Information Retrieval (SPIRE)*, Los Cabos, Mexico.
- (2010) Tutorial “Self-Indexing XML” invited at the *IV Alberto Mendelzon Workshop on Foundations of Data Management (AMW)*, Buenos Aires, Argentina.
- (2009) Keynote talk, *Prague Stringology Conference (PSC)*, Prague, Czech Republic.
- (2009) Keynote talk, *2nd International Workshop on Similarity Search and Applications (SISAP)*, Prague, Czech Republic.
- (2009) Keynote talk, *14th International Conference on Implementation and Application of Automata (CIAA)*, Sydney, Australia.
- (2005) Keynote talk, *12th International Symposium on String Processing and Information Retrieval (SPIRE 2005)*, Buenos Aires, Argentina.

### Editorial Boards and Steering Committees

- (2016-) Editor in Chief of *ACM Journal of Experimental Algorithmics*.
- (2012-) Member of the Editorial Board of *Information Systems*.
- (2009-2016) Member of the Editorial Board of *ACM Journal of Experimental Algorithmics*.
- (2008-2013) Member of the Steering Committee of *Latin American Theoretical Informatics*.
- (2008-2014) Co-founder and member of the Steering Committee of the *International Conference on Similarity Search and Applications*.
- (2004-2019) Member of the Editorial Board of *Information Retrieval*.
- (2002,2006-2008,2019-2021) Member of the Steering Committee of *International Symposium on String Processing and Information Retrieval*.

## Program Committee Chair and Guest Editor

- (2018) PC co-chair, *25th International Symposium on String Processing and Information Retrieval (SPIRE)*, Lima, Peru.
- (2018) PC co-chair, *29th Annual Symposium on Combinatorial Pattern Matching (CPM)*, Qingdao, China.
- (2018) Special session co-chair, *28th Data Compression Conference (DCC)*.
- (2018) Guest co-editor, *Algorithmica* special issue on recent *DCC* and *SPIRE* papers.
- (2018) Guest co-editor, *Algorithmica* special issue on *LATIN 2016*.
- (2016) Special session co-chair, *26th Data Compression Conference (DCC)*.
- (2016) PC co-chair, *12th Latin American Theoretical Informatics Symposium (LATIN)*, Ensenada, Mexico.
- (2015) Area Editor, *Encyclopedia of Algorithms*, 2nd edition.
- (2014) Guest co-editor, *Information Systems* special issue on *SISAP 2012*.
- (2014) Special session co-chair, *24th Data Compression Conference (DCC)*.
- (2012) PC co-chair, *5th International Workshop on Similarity Search and Applications (SISAP)*, Toronto, Canada.
- (2010) Guest co-editor, *ACM SIGSPATIAL* special issue on metric space searching.
- (2008) Guest co-editor, *Journal of Discrete Algorithms* special issue on *SISAP 2008* papers.
- (2008) PC co-chair, *1st International Workshop on Similarity Search and Applications (SISAP)*, Cancun, Mexico.
- (2006) Area Editor, *Encyclopedia of Algorithms*.
- (2006) PC co-chair, *4th IFIP International Conference on Theoretical Computer Science (IFIP TCS)*, track of the *19th World Computer Congress (WCC 2006)*, Santiago, Chile.
- (2005) Posters PC co-chair, *28th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval*, Salvador, Brazil.
- (2005) PC co-chair, *12th International Symposium on String Processing and Information Retrieval (SPIRE)*, Buenos Aires, Argentina.
- (2004) PC chair, *XXIV International Conference of the Chilean Computer Science Society (SCCC)*, Arica, Chile.
- (2001) PC chair, *8th International Symposium on String Processing and Information Retrieval (SPIRE)*, Laguna de San Rafael, Chile.

## Workshop Organization

- (2019) Co-organizer of the *Dagstuhl Seminar 19241*, “25 Years of the Burrows-Wheeler Transform”, Saarbrücken, Germany.
- (2017) Co-organizer of the *Shonan Meeting “Computation over over Compressed Structured Data”*, Tokyo, Japan.
- (2016) Co-organizer of the *Dagstuhl Seminar 16431*, “Computation over Compressed Structured Data”, Saarbrücken, Germany.
- (2013) Co-organizer of the *Dagstuhl Seminar 13232*, “Indexes and Computation over Compressed Structured Data”, Saarbrücken, Germany.
- (2005) Creation of the *Workshop on Compression, Text, and Algorithms*, since then satellite of *SPIRE*, and organization of several editions.

**Refereeing and Program Committees.** Participation in around 4 Program Committees per year, including *SPIRE CPM*, *SIGIR*, *LATIN*, *CIKM*, *ALENEX*, *WWW*, *ICDE*, *DCC*, *ICALP*, *KDD*, *ESA*, *STACS*, *WADS*, and *SWAT*, among others. Reviewer for around 15–20 journals per year, including *JCB*, *IPL*, *J. Alg.*, *TODS*, *TOIS*, *CSUR*, *DAM*, *TCS*, *PRL*, *Bioinf.*, *ToMM*, *TKDE*, *Inf. Sci.*, *Inf. Ret.*, *TIT*, *PR*, *TPAMI*, *JEA*, *Algorithmica*, *TALG*, *Inf. Sys.*, *VLDBJ*, *I&C*, *JCSSE*, *SICOMP*, *TCBB*, *JACM*, and *CACM*, among others.

## Publications

A complete list of publications can be found at [www.dcc.uchile.cl/gnavarro/publ.html](http://www.dcc.uchile.cl/gnavarro/publ.html). The following statistics, valid as of April 2019, give an idea of their impact.

- Two books with Cambridge University Press: *Compact Data Structures* (2016, 570pp) and *Flexible Pattern Matching in Strings* (2002, 280pp, with Mathieu Raffinot).
- 10 conference proceedings, 26 book chapters, 5 special issues in journals, 166 journal papers (including 12 in *Algorithmica*, 7 in *ACM TALG*, 6 in *ACM TOIS*, 2 in *IEEE TIT*, 2 in *SICOMP*, 2 in *CGTA*, and 1 in *PLOS One*, *Bioinformatics*, *DKE*, *IEEE TPAMI*, *J. Comp. Biol.*, *VLDBJ*, and *J. Alg.*), 245 conference papers (including 5 in *SODA*, 5 in *SIGIR*, 2 in *STACS*, 1 in *ICDE*).
- Over 3,800 citations to my *WoS* (*Web of Science Core Collection*) papers from WoS (without self-citations), and over 22,000 in *GS* (*Google Scholar*). My two most cited articles have 858 and 512 citations in WoS (2,659 and 1,547 in GS). My WoS papers have on average 22.9 WoS citations.
- My *h*-number (maximum value such that a researcher has *h* papers cited at least *h* times) is 31 within WoS and 71 in GS. This puts me in position 571 worldwide in Computer Science, according to Guide2Research ([www.guide2research.com/scientists](http://www.guide2research.com/scientists)).
- I am among the 300 most prolific authors in DBLP ([dblp.uni-trier.de](http://dblp.uni-trier.de)).
- I am within the top-100 researchers in Theoretical Computer Science, in Microsoft Academic ([academic.research.microsoft.com](http://academic.research.microsoft.com)).

## Teaching

**Advisor.** Since 1997, advisor of 6 postdocs, 18 PhDs, 17 MScs, and 28 Engineers. Currently advising 3 Postdocs, 6 PhD and 1 MSc students. Places: Universidad de Chile, Universidade da Coruña (Spain), and others in Spain, Brazil, Argentina, Cuba, Chile, and Mexico.

## Distinctions

- Advisor (and coauthor) of four students that obtained the best student paper award in conferences: SPIRE 2012, DCC 2013, DCC 2016, and DCC 2018.
- Google Research Awards to fund two MSc theses in 2016 and 2017.
- Best teaching award at my Department, 2008.
- Advisor of 5 MSc. theses awarded in the CLEI-UNESCO Contest of Latin American Computer Science MSc. Theses. Advisor of the PhD thesis with the first prize in the Doctoral Consortium of the Mexican Computing Meeting (ENC) 2006, and the one with the 1st Prize to the Best Doctoral Thesis in the field of Information Retrieval, awarded by the Spanish Society of Information Retrieval, SERI.

**Teaching Material.** Textbook (150 pages) for the course Design and Analysis of Algorithms (2018). Textbook (175 pages) for the course Theory of Computing (2006).