

CURRICULUM VITAE

PERSONAL INFORMATION

Name: Gonzalo Navarro

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Degree: PhD. in Computer Science

Position: Full Professor, Dept. of Computer Science, University of Chile

Areas of interest: Design and Analysis of Algorithms, Text Databases, Compression.

CURRENT RESEARCH PROJECTS

(2018-2023) Associate researcher, *Millennium Institute for Foundational Research on Data (IMFD)*, Mideplan, Chile.

(2014-2024) Key researcher, *Center for Biotechnology and Bioengineering (CeBiB)*, Conicyt, Chile.

(2020-2023) Main Researcher in the Fondecyt Project 1-200038, *Practical Indexes for Very Large Repetitive Text Collections*. The project was ranked 1st among 114 applications.

RECENT INVITED TALKS AND TUTORIALS

(2019) Keynote at *SPIRE*, Segovia, Spain. “Repetitiveness and Indexability”.

(2016) Tutorial “Compact Data Structures”, at *LATIN*, Ensenada, Mexico.

(2015) Keynote at *CLEI*, Arequipa, Peru. “Compact Data Structures”.

(2014) Keynote at *SPIRE*, Ouro Preto, Brazil. “Doing SP & IR on Repetitive Collections”.

(2014) Keynote at *LATIN*, Montevideo, Uruguay. “Encoding Data Structures”.

(2012) Tutorial “Space-Efficient Data Structures II”, at *SPIRE*, Cartagena, Colombia.

(2012) Keynote at *IWOCA*, Tamil Nadu, India. “Indexing Highly Repetitive Collections”.

(2012) Joint keynote at *CPM* and *SWAT*, Helsinki, Finland. “Wavelet Trees for All”.

(2011) Tutorial “Space-Efficient Data Structures”, at *SPIRE*, Pisa, Italy.

(2010) Keynote at *SPIRE*, Los Cabos, Mexico. “Compact data structures for IR: The time has come”.

EDITORIAL BOARDS AND CONFERENCE COMMITTEES

Editor in Chief: *ACM Journal of Experimental Algorithmics*.

Member of the Editorial Board: *Information Systems*.

Member of the Steering Committee: *LATIN* (2008-2013), *SISAP* (2008-2014), and *SPIRE* (2002, 2006-2008, 2018-2020).

Program Committee Co-Chair: *CPM 2018*, *SPIRE 2018*, *LATIN 2016*, *SISAP 2012*, *SISAP 2008*, *IFIP TCS 2006*, *SIGIR 2005 Posters*, *SPIRE 2005*, *SPIRE 2001*.

Special Session Chair: *DCC 2018*, *2016*, *2014*, on Compressed Data Structures.

Area Editor: *Encyclopedia of Algorithms*, 2nd edition (2015) and 1st edition (2006), Springer.
Guest editor of special issues: *Information and Computation 2020*, *Algorithmica 2018* (×2), *Information Systems 2014*, *ACM SIGSPATIAL 2010*, *Journal of Discrete Algorithms 2008*.
Workshop organization: Dagstuhl Seminars 2019, 2016, and 2013 (Germany), Shonan Meeting 2017 (Japan).

PUBLICATIONS

Books: Author, *Compact Data Structures*, Cambridge University Press, 2016. Co-author, *Flexible Pattern Matching in Strings*, Cambridge University Press, 2002.
Proceedings edited: Co-editor of 10 international conference proceedings.
Book chapters: Co-author of 26 international book chapters.
Special issues: Co-editor of 6 special issues in international journals.
Journal papers: 170 papers in international journals.
Conference papers: 250 papers in international conferences.
Impact: Over 24,000 citations in Google Scholar, *h*-number 73. The most highly cited author in Computer Science in Chile, and 746 worldwide according to *Guide2Research*. Among the 300 most prolific authors in DBLP.

STUDENT ADVISOR

Current: 1 Postdoc, 6 PhD and 1 MSc students.
Past: 8 Postdocs, 20 PhDs, 17 MScs and 29 Engineers.

SOME DISTINCTIONS

(2019) Capocelli Prize (Best Student Paper) in the *29th Data Compression Conference (DCC)*.
(2018) ACM Distinguished Member, distinction given by the Association for Computing Machinery to at most 10% of its members for achieving a significant impact on the computing field.
(2018) Capocelli Prize (Best Student Paper) in the *28th Data Compression Conference (DCC)*.
(2017) Alberto Apostolico Best Paper Award in the *28th Annual Symposium on Combinatorial Pattern Matching (CPM)*.
(2016) Elsevier's Highly Cited Paper Award to four 2013 papers among the 5 highest cited ones in Elsevier journals. One of them included in the *Virtual Special Issue "40th Anniversary of Theoretical Computer Science – Top Cited Articles: 1975-2014"*.
(2016) Capocelli Prize (Best Student Paper) in the *26th Data Compression Conference*.
(2013) Capocelli Prize (Best Student Paper) in the *23rd Data Compression Conference*.
(2012) Best Student Paper Award in the *29th International Symposium on String Processing and Information Retrieval (SPIRE)*.
(2008) Award Scopus Chile 2008 in Computer Science, Mathematics and Engineering, awarded by Elsevier to researchers with high scientific productivity, with the support of Conicyt (Chile).
(2003-2012) Advisor of 5 MSc theses awarded in the CLEI-UNESCO Contest of Latin American Computer Science MSc Theses. Advisor of the PhD thesis that obtained the first prize in the Doctoral Consortium of the Mexican Computing Meeting (ENC) 2006, and the one that obtained the 1st Prize to the Best Doctoral Thesis in the field of Information Retrieval, awarded by the Spanish Society of Information Retrieval, SERI.