

José Fuentes Sepúlveda

Curriculum Vitae

Education

- 2011–2016 **Doctor in Computer Science**, *University of Concepción*, Concepción, Chile.
Thesis: *Parallel Construction of Succinct Data Structures*
Advisors: Leo Ferres, PhD and Meng He, PhD
- 2014 **Visiting Graduate Student**, *Dalhousie University*, Halifax, Canada.
- 2005–2010 **Computer Engineering**, *University of Concepción*, Concepción, Chile.
Thesis: *Accessibility to mathematical expressions*
Advisor: Leo Ferres, PhD
- 2005–2008 **Bachelor of Engineering**, *University of Concepción*, Concepción, Chile.

Research Stays

- 07/2016 **Invited researcher**, *University of Helsinki*, Helsinki, Finland, Area: Data structures and algorithms for network analysis.
(1 month)
Inviting professor: Travis Gagie
- 10/2016 **Postdoctoral stay**, *University of Chile*, Santiago, Chile, Area: Parallel algorithms for compressed indexes and networks.
(present)
Inviting professor: Gonzalo Navarro

Experience

Academic

- 2016 **Part-Time Lecturer**, *Universidad de Concepción*.
Lecturer of the class *Information Technologies*
- 2014–2015 **Part-Time Lecturer**, *Universidad de Concepción*.
Lecturer of the class *Systems Development*
- 2014 **Part-Time Lecturer**, *Universidad del Bío-Bío*.
Lecturer of the class *Programming Language*
- 2013 **Part-Time Lecturer**, *Universidad Católica de la Santísima Concepción*.
Lecturer of the class *Computer Architecture*
- 2011–2013 **Assistant student**, *University of Concepción*.
Assistant student to the class *Data Structures*
- 2012 **Assistant student**, *University of Concepción*.
Assistant student to the class *Systems Development*
- 2011 **Assistant student**, *University of Concepción*.
Assistant student to the class *Parallel Programming in Multicore Systems*

Ongolmo 1131, Apt. 521 – Concepción, Chile

☎ (+56) 9 97555570 • ✉ fs.pepe@gmail.com • 🌐 www.josefuentes.cl

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- 2010–2011 **Assistant student**, University of Concepción.
Assistant student to the class *Data Base*
- 2009 **Assistant student**, University of Concepción.
Assistant student to the class *Formal Languages and Introduction to Compilers Theory*
- 2008 **Assistant student**, University of Concepción.
Assistant student to the class *Programming Language*

Occupational

- 2014–Present **Co-founder & Chief operations officer**, Azu Labs.
- 2011 **System developer**, Comercial sistemas inteligentes para la producción.
Development of project *SIGI EDENORTE RD*
- 2009–2011 **System developer**, CEFOP, University of Concepción.
Development of project *CEFOP FB0824*

Voluntary

- 2013–2014 **Volunteer teacher**, Infocap, Concepción, Chile.
Volunteer teacher to teach a profession to workers with social vulnerability

Awards

- 2014 ELAP Democracy Study Tour. Canadian Bureau for International Education (CBIE). Canada
- 2014 Emerging Leaders in the Americas Program (ELAP) scholarship. Department of Foreign Affairs, Trade and Development (DFATD). Canada
- 2012 National commission on science and technology (CONICYT) scholarship
- 2011 Intel Academic Microgrant Award
- 2011 University of Concepción award
- 2011 Engineering faculty award. University of Concepción
- 2010 Fund for undergraduate and graduate thesis. Innova Bío-Bío

Communication skills

- 2015 Oral Presentation at Jornadas Chilenas de la Computación (JCC). Santiago, Chile.
- 2015 Oral Presentation at Symposium on Experimental Algorithms (SEA). Paris, France.
- 2013 Oral Presentation at Fifth Workshop on MASSIVE Data Algorithmics. Sophia Antipolis, France.
- 2012 Oral Presentation at Jornadas Chilenas de la Computación (JCC). Valparaíso, Chile.

Languages

- Spanish Mother tongue
- English Intermediate

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Publications

- 2016 J. Fuentes-Sepúlveda, E. Elejalde, L. Ferres, and D. Seco, “*Parallel Construction of Wavelet Trees on Multicore Architectures*”, in Knowledge and Information Systems.
- 2015 L. Ferres, J. Fuentes-Sepúlveda, M. He, and N. Zeh, “*Parallel Construction of Succinct Trees*”, in SEA 2015 - 14th International Symposium on Experimental Algorithms.
- 2014 J. Fuentes-Sepúlveda and E. Elejalde and L. Ferres and D. Seco, “*Efficient Wavelet Tree Construction and Querying for Multicore Architectures*”, in SEA 2014 - 13th International Symposium on Experimental Algorithms.
- 2013 J. Fuentes Sepúlveda and E. Elejalde and L. Ferres and D. Seco and M. A. Rodríguez and D. Caro, “*Efficient Wavelet Tree Construction and Querying for Multicore Architectures*”, in Fifth Workshop on MASSIVE Data Algorithmics.
- 2012 J. Fuentes Sepúlveda and L. Ferres, “*Improving accessibility to mathematical formulas: The wikipedia math accesor*”, in New Review of Hypermedia and Multimedia, Volume 18, Issue 3. Special Issue: Web Accessibility.
- 2011 L. Ferres and J. Fuentes, “*Improving accessibility to mathematical formulas: The wikipedia math accesor*”, in W4A 2011 - 8th International Cross-Disciplinary Conference on Web Accessibility.