

Luis Barba

Postdoc

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Nationality: Mexican



Education

- 2012-2016 **PhD in Computer Science**, *Carleton University and Université Libre de Bruxelles*, Ottawa, Canada, Brussels, Belgium.
Senate Medal for Outstanding Graduate Work
- 2009-2011 **Master's degree in Computer Science**, *Universidad Nacional Autónoma de México (UNAM)*, Mexico City, Mexico.
Average: 100%, Graduated with highest honors (Mención Honorífica)
- 2004–2009 **Bachelor in Mathematics**, *Universidad Nacional Autónoma de México (UNAM)*, Mexico City, Mexico.
Average: 97.1%

Grants

- 2016-2018 **ETH Postdoctoral Fellowship**, 201,700.- CHF over 2 years.
- 2013-2016 **Vanier Canada Graduate Scholarships**, \$150,000 CAD over 3 years.
- 2013-2016 **CONACyT scholarship for graduate studies abroad**, \$36,000 USD over 3 years.
- 2013 **Ontario Graduate Scholarship (OGS) at Carleton University for 2013-2014, (Declined)**, \$15,000 CAD / year.
- 2012-2013 **Fund for Research Training in Industry and Agriculture, FRIA-FNRS**, 43,200 euros over 2 years.
- 2009-2011 **Conacyt National scholarship for graduate studies**, \$192,000 MXN over 2 years.
- 2011 **UNAM Graduation encouraging program (Programa de fomento a la graduación)**, Awarded for being the first student to graduate from my class, \$25,000 MXN.

Awards

- 2016 **Senate medal, Carleton University**, *This represents the highest recognition of academic excellence that Carleton University bestows upon graduate students.*
- 2015 **Best student presentation award, SoCG'15**, *Given to the best presentation given by a student during the 31st Symposium on Computational Geometry.*
- 2013 **Best student presentation award, SoCG'13**, *Given to the best presentation given by a student during the 29th Symposium on Computational Geometry.*
- 2012 **Silver Medal Alfonso Caso**, *Given to the most distinguished student in all graduate programs in Computer Science and Engineering for the year 2011 at Universidad Nacional Autónoma de México.*

Languages

Spanish (*Mother Tongue*) · English (*Fluent*) · German (*Level B2*) · French (*Level B2*)

Industry experience

- 2006-2009 **System Director**, *NetStudio Mexico SC*, Mexico City, Mexico.
2009-2011 **System Consulting**, *Buffette de Soluciones Integrales SC*, Mexico City, Mexico.

Teaching Experience

- 2017 **Lecturer**, *ETH-Zurich*, Computational Geometry.
2017 **Teaching Assistant**, *ETH-Zurich*, Algorithms Lab.
2017 **Invited Lecturer**, *University of Tokyo*, Enclosing problems and Voronoi diagrams.
2016 **Lecturer**, *ETH-Zurich*, Geometry Seminar.
2016 **Teaching Assistant**, *ETH-Zurich*, Diskrete Mathematik.
2010 **Teaching Assistant**, *UNAM*, Linear Algebra.
2009 **Teaching Assistant**, *UNAM*, Selected Topics of Discrete Mathematics.
2009 **Teaching Assistant**, *UNAM*, Graph Theory.
2002-2003 **Private Tutor**, *Logos High-school*, Mathematics, Physics and Chemistry.

Conference Program Committees

- SoCG'18 **PC Member**, *34th Symposium on Computational Geometry*.
EuroCG'18 **PC Member**, *34th European Workshop on Computational Geometry*.
CCCG'17 **PC Member**, *29th Canadian Conference on Computational Geometry*.

Student Supervision

- Ongoing **Cyril Frei**, *ETH bachelor student*.
Sep 2017 **Roland Schmid**, *ETH master student co-supervised with Patrick Schnider*.

Invited talks

- Tokyo, Japan Convex polyhedra and their interactions. ETH Zürich-University of Tokyo Strategic partnership symposium. January 20th, 2017
- Oaxaca, Mexico Searching for the sink in grids with unique sink orientations. BIRS-Workshop: Searching and Routing in Discrete and Continuous Domains; CMO BIRS Oaxaca, October 12th, 2015
- Zurich, Switzerland Compatible connectivity-augmentation of planar disconnected graphs. GWOP'15, ETH-Zurich. June 1st, 2015
- Zurich, Switzerland Linear time algorithms for geodesic problems on simple polygons. Mittagsseminar, ETH-Zurich. May 12th, 2015
- Zurich, Switzerland Detecting intersections between convex polyhedra. Mittagsseminar, ETH-Zurich. September 16th, 2014
- Beijing, China Detecting intersections between convex polyhedra. China Theory Week'14, Tsinghua University. September 9th, 2014
- Eindhoven, Netherlands Bichromatic compatible matchings. 9th Dutch Computational Geometry Day, TU Eindhoven. October 24th, 2013
- Graz, Austria Flip distance in bichromatic matchings. CG Seminar, TU Graz. September 9th, 2013

Programing

Languages **C++ · Java · PHP · ActionScript 3.0 · MySQL · Microsoft SQL.**