Ivan Levcovitz

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US Citizen, Brazilian Citizen

EDUCATION

CUNY Graduate Center, *New York City, NY* *May 2018 (expected)*
PhD, Mathematics
Advisor: Jason Behrstock
Thesis Title: Divergence of CAT(0) Cube Complexes and Coxeter Groups

University of Pennsylvania, *Philadelphia, PA* *May 2011*
BSE, School of Engineering & Applied Sciences

- *Majors*: Mathematics, Electrical Engineering
- Magna Cum Laude

Escola Americana Do Rio De Janeiro, *Rio do Janeiro, Brazil* *June 2007*

- Graduated with International Baccalaureate, American, and Brazilian Diploma

RESEARCH INTERESTS

Geometric Group Theory, Low-Dimensional Topology, CAT(0) Geometry, Coxeter Groups, Hyperbolic Geometry

TEACHING/EMPLOYMENT

Hunter College, *New York City*
Quantitative Reasoning Fellow *Fall 2015-Spring 2016*

- Developed Python software for the economics tutoring center
- Analyzed 10 years of course and student trajectory data to research trends that can identify undergraduate students that are at risk of not graduating.
- Created teaching assignments focused on quantitative reasoning

Baruch College, *New York City*
Instructor

Applied Calculus, Math 2205	*Spring 2015*
Precalculus and Elements of Calculus, Math 2003 (two sections)	*Fall 2014*
Applied Calculus and Matrix Algebra, Math 2207	*Spring 2014*
Applied Calculus and Matrix Algebra, Math 2207 (two sections)	*Fall 2013*

Research on Application of Euler Integration Theory to Sensor Networks, *University of Pennsylvania*
Research Assistant/Programmer under Professor Robert Ghrist *Summer 2010*

- Researched effectiveness of topological theories applied to sensor networks
- Simulated large sensor networks through Java software
- Improved mathematical algorithms

The Tutoring Center, *University of Pennsylvania*
Tutor *Fall 2009 – Spring 2010*

- Tutored Calculus (1, 2 and 3) and Physics (Electromagnetism, Mechanics)

AWARDS/GRANTS

- Mina Rees Dissertation Fellowship *2016-2017*
- Quantitative Reasoning Fellowship *2015-2016*
- Doctoral Student Research Grant *2015-2016*
- Graduate Assistant Science Fellowship *2011-2013*
- Penn Engineering Exceptional Service Award *2011*

PAPERS

- A quasi-isometry invariant and thickness bounds for right-angled Coxeter groups
- Divergence of CAT(0) cube complexes and Coxeter groups, *submitted*, arXiv:1611.04378

TALKS

- CUNY Graduate Center, Hyperbolic Geometry Seminar *2017*
- Ohio State University, Geometric Group Theory Seminar *2017*
- Geometric Groups on the Gulf Coast (G^3) *2017*
- Spring Topology and Dynamical Systems Conference *2017*
- Temple University, Geometry and Topology Seminar *2017*
- Tech Topology Conference *2016*
- CUNY Graduate Center, Geometry and Topology Seminar *2016*
- Topology Student Workshop, Georgia Institute of Technology *2016*
- CUNY Graduate Center, Geometric Group Theory Course *2016*
- CUNY Graduate Center, Geometry and Topology Student Seminar *2015*
- CUNY Graduate Center, Hyperbolic Geometry Seminar *2013*
- CUNY Graduate Center, Geometric Group Theory Course *2013*

CONFERENCES ATTENDED

- Spring Topology and Dynamical Systems Conference, *New Jersey City University, NJ* *2017*
- Tech Topology Conference, *Georgia Institute of Technology, Atlanta, GA* *2016*
- Groups Acting On CAT(0) Spaces *MSRI, Berkeley, CA* *2016*
- Beyond Hyperbolicity, *Cambridge, England* *2016*
- Topology Student Workshop, *Georgia Institute of Technology, Atlanta, GA* *2016*
- Young Geometric Group Theory V, *Karlsruhe, Germany* *2016*
- Cornell Topology Festival, *Cornell, Ithaca, NY* *2015*
- GATSBY, *Yale, New Haven, CT* *2015*
- Graduate Student Conference in Algebra, Geometry and Topology, *Temple University, Philadelphia, PA* *2015*
- CUNY Convergence of Metric Spaces, *CUNY Graduate Center, New York, NY* *2014*
- Topology Student Workshop, *Georgia Institute of Technology, Atlanta, GA* *2014*
- GEAR Junior Retreat, *University of Michigan, Ann Arbor, MI* *2014*
- Geometric Topology in New York, *Columbia University, New York, NY* *2013*
- Cycles, Calibrations and Nonlinear Geometry conference, *Stony Brook University, NY* *2012*

SKILLS

Technical:

- *Programming Languages:* Python, Java, C, PHP, HTML, CSS, SQL, JavaScript; familiar with: Linux
- *Hardware:* Electrical engineering lab experience including circuits and microcontrollers

Languages:

- Fluent in English and Portuguese, conversant in Spanish

OTHER

- Rated tournament chess player