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CURRICULUM VITAE

Zur Izhakian

Education	***Ph.D. Student – Computer Science & Pure Mathematics,*** Tel-Aviv University, Tel-Aviv, Israel ***Thesis Advisors:*** Prof. Eugenii Shustin (The School of Mathematical Sciences) and Prof. Amir Averbuch (The School of Computer Science) ***Topic of thesis***: Representation Methods of Ployhedral (Tropical) Objects ***M.Sc – Computer Science & Mathematics,*** Mathematical Algorithm Oriented Thesis, Tel-Aviv University, Tel-Aviv, Israel, 2001, ***Summa Cum Laude (Highest Honors)*** ***Supervisor:*** Prof. Danni Cohen-Or ***Topic of thesis***: An algorithm for Computing a Polynomial's Dual Curve in Parallel Coordinates ***B.Sc – Mathematics & Computer Science***, Tel-Aviv University, Tel-Aviv, Israel, 1998, ***Magna Cum Laude (High Honors)***
Languages	Hebrew and English
Research Area	Tropical Algebraic Geometry (Mainly, Non-Archimedean Amoebas) and Tropical Algebra, Max-Plus Algebra, Toric Varieties, Geometry of Polyhedra, Imaging & Scientific Visualization
Work Experience	1998 – 2005 ***Academic Teaching & Assistant –*** Tel Aviv University, Israel 1996 -2001 ***Algorithmic Developer & Software Engineer*** – R&D Division of an international internet foundation company

1994 -1995

Sales and Support – A Software Company for Financial and Logistic Computerized Management System

National Duty	1990 -1993 ***Israel Defense Forces***

Scholarships	• VTAT – A governmental scholarships, of the council for higher education, for advanced study in sciences, years 2001 to 2005. • The High Council for Scientific and Technological Cooperation between France and Israel, 2005. • The German-Israeli Foundation for Research and Development by Hermann Minkowski Minerva Center for Geometry, 2004. • EU – Multi-resolution in Geometric Modelling (MINGLE), Research Project, 2003.
Prizes and Awards	University prize, The School of Mathematical Sciences (Dan David), for excellence in educating, June 1999.
Publications	• Z. Izhakian, Tropical Varieties, Ideals and an Algebraic Nullstellensatz, Preprint, 2005. • E.Shustin and Z. Izhakian, A tropical Nullstellensatz, Preprint arXiv:math.AC/0508413, 2005. • Z. Izhakian, Tropical Arithmetic & Algebra of Tropical Matrices, Submitted to *Journal of Pure and Applied Algebra (JPAA)*, Preprint arXiv:math.AG /0505458, 2005. • Z. Izhakian, Duality of Tropical Curves , Submitted to *Communications in Algebra*, Preprint arXiv:math.AG/0503691, 2005. • Z. Izhakian, Algorithms and Dual Representations of Polytopes and Multidimensional Polygonal Regions – Submitted to *Journal of Applied Mathematics (JAM), 2005.* • Z. Izhakian, Dual Representations of Multidimensional Graphs & Segments, Submitted to *Journal of Discrete & Computational Geometry (JDCG), 2004.* • Z. Izhakian, Algebraic Curves – Dual Representation, Reconstruction & Algorithms, Submitted to *Journal of Computer Aided Geometric Design (CAGD), 2004.* • Z. Izhakian, Visualization of Proximity Objects and Refinement of Characteristic Line from Biased Samples, *Visualization, Imaging, and Image Processing (VIIP) 2004,* pp.96-103, 2004. • Z. Izhakian, New Visualization of Surfaces in Parallel Coordinates - Eliminating Ambiguity and Some Over-Plotting, *Journal of WSCG*, Volume 1-3, No. 12, pp. 183-191, 2004, ISSN 1213-6972. • Z. Izhakian, Representing Surfaces by Planar Regions Using Parallel Coordinates, Preprint, 2003. • Z. Izhakian, Algebraic Curves in Parallel Coordinates - Avoiding the "Over-Plotting" Problem, Preprint http://arXiv.org/abs/cs/0403005, 2003.

Conferences & Workshops

- Trimester on Real Geometry, Institute Henri Poincare, France, September 2005.
- Tropical Geometry, Strasbourg, France, May 2005.
- Tropical Algebraic Geometry, Oberwolfach, Germany, October 2004.
- The 4th IASTED International Conference on Visualization, Imaging, and Image Processing, Marbella, Spain, September 2004.
- Computer Graphics, Visualization and Computer Vision'2004, Plzen-Bory, Czech Republic, February 2004.
- Curves & Surfaces, Saint-Malo, France, June 2002.