

Jukka T. Virtanen

CONTACT INFORMATION	Department of Mathematics University of California Los Angeles UCLA Mathematics Department Box 951555 Los Angeles, CA 90095-1555 USA	Voice: (310) 825-4701 Fax: (310) 206-6673 E-mail: virtanen@math.ucla.edu WWW: www.math.ucla.edu/~virtanen
CITIZENSHIP	Citizen of Finland. Permanent resident in California USA. Citizenship application for US citizenship 2009.	
RESEARCH INTERESTS	Representations of p -adic Poincaré and Galilean groups.	
EDUCATION	University of California Los Angeles , Los Angeles, California Ph.D. Mathematics June 2009 <ul style="list-style-type: none">• Thesis Title: Structure of Elementary Particles in Non-Archimedean Spacetime• Advisor: Professor Veeravalli S. Varadarajan University of California Berkeley , Berkeley, California B.S. Mathematics, July 1998 B.S. Physics, July 1998	
ACADEMIC EXPERIENCE	University of California Los Angeles , Los Angeles, California <i>Graduate Student</i> September 2000 to June 2009 <i>Teaching assistant</i> September 2005 to June 2009 <ul style="list-style-type: none">• Teaching complex analysis section (Math 132)• Teaching C++ discussion sections (PIC 10A). Lecturing twice a week.• Teaching calculus discussion sections (Math 31B, 3B). University of California Berkeley , Berkeley, California <i>Undergraduate Researcher</i> March 1997 to December 1998 <ul style="list-style-type: none">• Worked in Lawrence Berkeley Laboratory for Professor Kam-Biu Luk.• Participated in analysis of data from HyperCP (E871 at Fermilab) experiment, which was a fixed-target experiment designed to search for direct CP Violation in strange-baryon decays. <i>Biology scholars discussion leader</i> June 1997 to July 1997 <ul style="list-style-type: none">• Lectured on electro-magnetism to gifted undergraduates in bio-sciences. <i>Undergraduate student</i> January 1994 to July 1998	
PROFESSIONAL EXPERIENCE	Amroy Inc. , Los Angeles, California <i>Computer programmer</i> November 2001 to May 2004 <ul style="list-style-type: none">• Programmer, IT manager and web designer.• Programming projects included building an interfaces for laboratory equipment.	

Moleculab, Los Angeles, California

Computer programmer

November 2000 to September 2001

- Designed a web site for the company.
- Served as IT support person for the company
- Participated in miscellaneous work for this start up company.

Burstein Technologies, Irvine, California

*Computer programmer and
optical drive specialist*

November 1998 to September 2000

- Designed and wrote C++ code to interface with compact disc optical devices.
- Designed assembly code to interface with automated disc devices.
- Came up with ideas on how to improve methods that were being used at the time in Burstein Technologies research and development.

MATHEMATICAL EXPERTISE Lie Algebras, representations of algebraic groups over locally compact fields, Chevalley groups, complex analysis.

TECHNICAL SKILLS Extensive hardware and software experience in compact disc drives.

Programming languages: C, C++, Pascal, Perl, PHP, html, Fortran

Applications: \LaTeX , Microsoft Office, and other common productivity packages for Windows, OS X, and Linux platforms , Adobe photoshop

Operating Systems: Microsoft Windows XP/2000,Vista, Apple OS X, UNIX variants

PUBLICATIONS

V. Varadarajan and J. Virtanen, *Structure, Classification, and Conformal Symmetry, of Elementary Particles over Non-Archimedean SpaceTime*, Letters in Mathematical Physics, (2009), 171 - 182.