

CURRICULUM VITAE
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DATE AND PLACE
OF BIRTH

04/04/1959; Armenia

CITIZENSHIP

Russia; Permanent resident in the USA

EDUCATION

- 1976-1981 Student, Yerevan State University (Armenia), Summa cum laude
Diploma (M.Sc.) in mathematics, Advisor S.N. Mergelyan
- 1981-1984 Post graduate student in mathematics, the same University
- 1987, May 27 Ph.D. in mathematics, Institute of Mathematics of the Armenian
Academy of Sciences, Advisor: S.N. Mergelyan

PROFESSIONAL EXPERIENCE

- 08/01/2003 - to present University of South Florida, Instructor
- 2000 - 2003 University of Central Florida
Visiting Instructor
- 1998 - 2000 University of South Florida
Visiting Research Scholar
- 1994 - 1998 Moscow Aviation Institute, Senior Lecturer
Senior Scientific Researcher
- 12/01/1996-03/01/97 University of Oldenburg, Germany
Visiting Researcher (Supported by DAAD faculty grant)
- 1996-1998 Moscow State University (supported by a grant from
the Russian Foundation for Fundamental Research)
- 1989-1994 Institute of Mathematics of the Armenian Academy
of Sciences, Scientific Researcher
- 1990-1994 Yerevan State Univ., Senior Lecturer (part time)

RESEARCH INTERESTS

Complex Analysis, Approximation theory, Boundary behavior of analytic functions; Pointwise and uniform approximation by polynomials, rational and entire functions in complex plane; Functional analysis methods in approximation theory; Complex measures, duality principle and weak convergence theorems in approximation problems; Conformal mapping methods in approximation theory; Applications of real analysis, topological and set theory methods in complex analysis.

INTERNATIONAL COLLABORATION AND TALKS

April 28 -May 17, 2009; Research and talk at the University of Oldenburg, Germany.
May 14, 2009; Talk: Bounded approximation in complex domain and applications

April 4 – 9, 2009. Short research visit and talks at Cornell University, Ithaca.
April 5, 2009; Cornell Analysis Seminar, Talk: Bounded approximation on subsets of the complex plane and applications; April 8, 2009; Cornell Math-Teaching Seminar, Talk: Remarks concerning the instruction of the concept of limit.

April 1, 2009; De Paul University, Analysis Seminar, Talk: Bounded approximation on open and closed subsets of the complex plan and the peak-interpolation theorem of E. Bishop

March 25, 2009; Michigan State University, Analysis Seminar, Talk: On a problem of A.M. Davie on bounded approximation and the peak-interpolation theorem of E. Bishop

1998-2007; Talks at Univ. of South Florida, Tampa, and at Univ. of Central Florida, Orlando.

April 9-23, 1997; Talks at the Univ. of Michigan, Ann Arbor and at Wayne State Univ., Detroit.

December 1, 1996-February 28, 1997; Research at the University of Oldenburg, Germany, supported by a German DAAD grant for faculty. Talks at the Universities of Oldenburg and Hannover. (With Professor Gerald Schmieder we published an article [8].)

In 1993-94 using email communications, I worked on a joint project with Professor L.A. Rubel; we published an article [6].

PARTICIPATION AND INVITED TALKS AT INTERNATIONAL CONFERENCES

2009, May 18 – 22, International Conference on Complex Analysis & Dynamical Systems IV, Nahariya, Israel. Talk: On an approximation problem of L. Zalcman

2009, March 27 – 29, AMS Special Session on Complex Dynamics and Value Distribution, Urbana, IL (UIUC). Talk: Bounded approximation on open and closed subsets of the complex plane.

2006, August 22 – 30, International Congress of Mathematicians 2006, Madrid, Spain. Talk (in analysis section): On a question of A.M. Davie on bounded approximation

2005, June 13 – 18, Computational Methods and Function Theory 2005 (CMFT'2005), Joensuu, Finland. Talk: On the uniqueness property of analytic function and related questions

2005, May 23 – 29, International Conference (Function Spaces, Approximation Theory, Nonlinear Analysis) dedicated to the centennial of S.M. Nikolskii, Moscow, Russia. Talk: On analytic functions defined in the unit disk.

2002, August 20- 28, International Congress of Mathematicians, 2002, Beijing, China. Attendance supported by NSF and AMS.

2002, August 14-17, Complex Analysis (a satellite conference of ICM 2002), Shanghai, China. Talk: On the boundary behavior of analytic functions

2002, June 16-20, Conference on Analysis and Probability on Fractals, Cornell University, USA. Talk: Singularity points of a class of analytic functions and fractals

2001, June 25-29, Computational Methods and Function Theory 2001 (CMFT'2001), Aveiro, Portugal. Talk: On a localization problem for limit functions of unbounded sequences of rational functions

2001, January 9-13, Joint Mathematics Meetings, AMS
Session on Real Analysis, New Orleans. Talk: On the convergence of functions defined on compact Hausdorff Spaces

2000, July 3-14, Seminaire de Mathematiques Superieures
39th session, "Approximation, Complex Analysis, and Potential Theory", Universite de Montreal, Montreal, Canada.

1998, August 11-16, Int. Congress of Mathematicians 1998 (ICM'98), Satellite Conference "Conformal geometry and geometric function theory", Berlin, Germany. Talk: On a conformal mapping approach in approximation theory

LIST OF PUBLICATIONS

1. On boundary uniqueness theorems of A. Beurling, and F. and M. Riesz, to be submitted
2. Bounded approximation on compact Hausdorff spaces, to be submitted
3. On a polynomial approximation problem of L. Zalcman (submitted)
4. On a subclass of approximable functions on closed subsets (with G. Harutyunyan) (submitted).
5. On limits of sequences of rational functions, Comput Methods Function Theory, V. 1, no. 2 2001, 339-344.
6. (With E.B. Saff) An extension of E. Bishop's localization theorem,

Journ. of Approx. Theory, V. 109, 2001, 148-156.

7. On a problem of M.A. Lavrentyev concerning the representability of functions by series of polynomials in the complex domain, Russian Acad. Sci. Izv. Math., V. 63, no. 2, 1999, 29-40. (English trans.: Izvestiya Math., V. 63, no. 2, 1999, 245-254.)
8. (With L.A. Rubel) Uniform Approximation by entire function which are all bounded on a given set, Constructive Approx., V.14, no.4, 1998, 469-473. Erratum: Constructive Approx., V.15, no.1, 1999.
9. M.A. Lavrentyev's problems on pointwise polynomial approximation and related questions, in: Computational Methods and Function Theory 1997, N. Papamichael, S. Ruscheweyh, and E. Saff (eds.), World Scientific, 1999, 161-170.
10. (With G. Schmieder) On topological properties of filled level sets of entire functions, Results in Mathematics, V. 33, 1998, 266-273.
11. (With U.G. Pirumov et al.) Numerical analysis of two - phase flow in gas - dynamic filter, Russian Acad. Sci. Matematicheskoe Modelirovanie, V. 10, no. 11, 1998, 19-28.
12. Certain problems arising from Rubel's Problem of simultaneous approximation, Russian Acad. Sci. Dokl., V.341, no. 1, 1995, 10-12. (English trans.: Doklady Math., V. 51, no. 2, 1995, 164-165.)
13. The set of divergence of polynomials, that are uniformly bounded on a compact set, Dokl. Acad. Nauk Armyan. SSR, V. 89, no. 4, 1989, 161-163.
14. (With S.N. Mergelyan) On the sequences of polynomials converging on F_σ sets, Dokl. Acad. Nauk Armyan. SSR, V. 86, no. 2, 1988, 54-57. (Russian)
15. On the representation of functions by sequences of uniformly bounded polynomials on compact sets of the complex plane, Izv. Acad. Nauk Armyan. SSR, V. 21, no. 4, 1986, 345-357. (English trans.: Soviet J. Contemp. Math. Analysis, V.21, no.4, 1986, 30-43.)
16. (With S.N. Mergelyan) Representation of functions by converging polynomial series, Mater. Resp. Nauchno-Prakt. Conf. po Met. Prep. Matem. v Vuze, Yerevan, 1986, 95-97. (Russian)
17. On convergence of sequences of polynomials, which are uniformly bounded on compact sets of complex plane, Ibid, 1986, 76-77. (Russian)
18. On boundary values of a class of analytic in disk functions, Arm. NIINTI, no. 49 AR-85 Dep., 1985, 12p. (Russian)
19. Functions of the first Baire class, defined on compact sets, Dokl. Rasshir. Zased. Sem. Instituta Prikl. Mat. im I.N. Vekua, Tbilisi, V. 1, no. 2, 1985, 64-67. (Russian)

20. Problem M547, Kvant, 1979, no. 2, p. 32.

PH.D. COMMITTEE MEMBERSHIP

I have been a member of the Ph.D. Committees of:

1. Gohar Harutyunyan, Yerevan State University, 1996.
2. John Boncek, University of Central Florida, 2003,
3. Rodny Taylor, University of South Florida, 2008