

CURRICULUM VITAE

Date: _____ September 1, 2023 _____

Name: _____ Kheifets, Alexander _____

Department: Mathematics and Statistics

College: Kennedy College of Sciences

Rank: _____ Professor _____ Field: _____ Mathematical Analysis _____

1. Education

Ph.D., Mathematics, 1990, Kharkov National University, Ukraine
Thesis: Scattering Matrices and Parseval Equality in Abstract
Interpolation Problem
Supervised: by Prof. Victor E. Katsnelson.

M.Sc., Mathematics, 1978, Kharkov National University, Ukraine
Thesis: Algorithm for Darlington Representation of Rational
Matrix-functions
Supervised: by Prof. Victor E. Katsnelson

2. Academic Experience

Fall 2003 – Present
Associate Professor, Full Professor
Department of Mathematical Sciences, University of Massachusetts,
Lowell, MA

Fall 2001 – Spring 2003
Visiting Assistant Professor
Department of Mathematics, The College of William and Mary,
Williamsburg, VA

Spring 1999 - Summer 2001
Senior Lecturer
Department of Mathematics, College of Judea and Samaria, Ariel, Israel

Fall 1996 – Fall 1998
Associate Professor
Department of Mathematics, Kharkov National University, Ukraine

Fall 1996 – Fall 1998
Senior Researcher
Division of Mathematics and Theoretical Physics, Research Institute for Low
Temperature Physics, Kharkov, Ukraine

Fall 1995

Member of the Mathematical Sciences Research Institute, Berkeley, CA

Fall 1993 – Fall 1996

Postdoctoral Fellow, Department of Theoretical Mathematics, The Weizmann Institute of Science, Rehovot, Israel

Fall 1991 – Spring 1993

Associate Professor

Department of Mathematics, Kharkov National University, Ukraine

Fall 1990 – Spring 1991

Assistant Professor

Kharkov Polytechnic Institute, Ukraine

Winter 1984- Summer 1993

Researcher, Senior researcher

Mathematical modeling laboratory, Institute for coal chemistry, Kharkov, Ukraine

Fall 1978 – Fall 1983

System Engineer

Computing Center, Electrical Engineering Design Institute TPEP, Kharkov, Ukraine

3. Professional Honors and Awards

UMass Lowell Department of Mathematics award for Excellence in Teaching, 2004

Kharkov Mathematical Society prize for young mathematicians (with Peter Yuditskii), for a work on Abstract Interpolation Problem, 1987.

4. Research Interests

Complex Analysis, Harmonic Analysis, Operator Theory. More specifically: Hilbert spaces of analytic functions, functional models of operators, interpolation problems for analytic functions, spectral and scattering theory, Jacobi and CMV matrices.

5. Talks at International Research Conferences

1994 Leipzig, Germany - *International Conference in Memory of V. Potapov*

1995 Berkeley, CA - *Holomorphic Spaces Program*

1996 Ashqelon, Israel - *International Seminar on Complex Analysis*

Bloomington, IN - *9-th International Workshop on Operator Theory And Applications (IWOTA).*

Saint Louis, MO - *Mathematical Theory of Networks and Systems (MTNS)*

1997 Kharkov, Ukraine - *Entire and Subharmonic Functions (In memory of B. Levin).* Member of the organizing committee.

- Beer-Sheva, Israel - *International Conference in Honor of M. Livsits' 80's Anniversary.*
- Odessa, Ukraine - *International Conference in Memory of M. Krein*
- 1998 Groningen, Netherlands - *10-th International Workshop on Operator Theory And Applications (IWOTA).*
- Padova, Italy - *Mathematical Theory of Networks and Systems (MTNS)*
- 1999 Rehovot, Israel - *Conference in Honor of H. Dym's 60's Anniversary*
- 2000 Bordeaux, France - *11-th International Workshop on Operator Theory And Applications (IWOTA).*
- 2001 Beer-Sheva, Israel - *Multivariable System and Operator Theory.*
- 2002 Blacksburg, VA - *13-th International Workshop on Operator Theory And Applications (IWOTA)*
- South Bend, IN - *Mathematical Theory of Networks and Systems (MTNS).*
- 2004 Newcastle, UK - *15-th International Workshop on Operator Theory And Applications (IWOTA).*
- 2005 Storrs, CT - *16-th International Workshop on Operator Theory And Applications (IWOTA).* Co-organized a special session on interpolation.
- 2006 Kharkov, Ukraine - *Entire and Subharmonic Functions and Related Topics (B. Levin Centennial Conference).*
- 2007 St.-Petersburg, Russia - *16-th Summer St.-Petersburg Meeting in Mathematical Analysis (Satellite of the Euler Congress).*
- Beer-Sheva, Israel - *Characteristic Functions and Transfer Functions in Operator Theory and System Theory.*
- 2008 Bedlewo, Poland - *Operator Theory Analysis and Mathematical Physics (OTAMP).*
- Williamsburg, VA - *19-th International Workshop on Operator Theory And Applications (IWOTA).* Organized a special Session on interpolation.
- 2009 Kiev, Ukraine - *Ukrainian Mathematical Congress*
- Leipzig, Germany - *25 Years of Schur Analysis in Leipzig*
- 2010 Lviv, Ukraine - *Complex Analysis*
- 2011 Donetsk, Ukraine - *International Conference on Modern Analysis*

Linz, Austria - *Complex Analysis, Operator Theory and Approximation*
I was an invited speaker,
Supported by the organizing committee

2013 Kharkov, Ukraine - *International Conference Analysis and Mathematical Physics*, invited speaker

2014 Linz, Austria - *Complex Analysis and Operator Theory*, invited speaker

2019 Lisbon, Portugal - *International Workshop on Operator Theory and Applications (IWOTA)*

2022 Linz, Austria - *Complex Analysis, Spectral Theory and Approximation meet in Linz*, invited speaker

6. Paper Refereeing for:

Transactions of the American Mathematical Society
Proceedings of the American Mathematical Society
Journal of Functional Analysis
Integral Equations and Operator Theory
Journal of Operator Theory
Operator Theory: Advances and Applications
Journal of Mathematical Analysis and Applications
Linear Algebra and Applications
Linear and Multilinear Algebra
Theory of Functions Functional Analysis and Applications
Mathematical Physics Analysis Geometry
Indian Journal of Pure and Applied Mathematics
Proceedings of the Edinburgh Mathematical Society
Complex Analysis and Operator Theory
Operators and Matrices

7. Teaching

Real Analysis, Calculus, Complex Analysis, Linear Algebra, Abstract Algebra, Probability Theory, Measure Theory, Functional Analysis, Operator Theory, Approximation Theory.