Date Revised: 04/2014

UNIVERSITY OF MISSOURI
Professional Record
Igor E. Verbitsky

Department of Mathematics
College of Arts and Science

Areas of Research: Harmonic Analysis, Partial Differential Equations, Potential Theory, Complex Analysis, Applied Mathematics

Office Address:
211 Math. Sciences Bldg.
Columbia, MO 65211
USA
Telephone No.: 573-882-1451
E-mail: verbitskyi@missouri.edu

PRESENT RANK & DATE OF RANK: University of Missouri Curators' Distinguished Professor, 01/2010–present

EDUCATION

Doctoral Degree
Ph.D. Kazan State University, Russia, 1979

Master's Degree
M.S. University of Moldova, Moldova, 1974

PROFESSIONAL EXPERIENCE

Professor, University of Missouri-Columbia, 2000-present

Chair in Analysis, University of Birmingham, UK, 2007-2008

Associate Professor, University of Missouri-Columbia, 1997-2000

Assistant Professor, University of Missouri-Columbia, 1995-1997

Visiting Researcher, Mittag-Leffler Institute, Royal Academy of Sciences, Sweden, Fall Semester, 1999

Visiting Associate Professor, Wayne State University, Detroit, Michigan, 1992-1995

Visiting Researcher, Courant Institute of Mathematical Sciences, New York University, New York, 1991-1992

Short-Term Positions and Visits

Visiting Professor, Université Paris-Sud.
Orsay, France, January 2013

Visiting Professor, University of Bielefeld.
Bielefeld, Germany, June 2009, July 2010, July 2011

Visiting Professor, University of Bologna.
Bologna, Italy, May 2009, June 2011

Visiting Fellow, Mathematical Sciences Institute, Australian National University.
Canberra, Australia, July 2008

Visiting Member, Mathematical Sciences Research Institute Membership.
Berkeley, California, November, 2005

Visiting Professor, University of Jena.
Jena, Germany, June 2005

Visiting Professor, University of Barcelona.
Barcelona, Spain. May-June 1996, August-September 1999, June 2005

Visiting Professor, Jyväskylä University.
Jyväskylä, Finland, June 2003

Visiting Professor, Technion-Israel Institute of Technology.
Haifa, Israel, May-June 1999, June 2013

Visiting Professor, Linköping University.
Linköping, Sweden, May-June 1992, June-July 1994, June 1995

HONORS, FELLOWSHIPS

University of Missouri Curators' Distinguished Professorship, January 2010

The Australian National University Fellowship. Mathematical Sciences Institute.
Canberra, Australia. July, 2008

The Mittag-Leffler Institute Fellowship. Royal Academy of Sciences, Sweden.
Fall Semester, 1999

1986 Moldavian State Prize in Science and Technology.

PROFESSIONAL SOCIETY MEMBERSHIPS

American Mathematical Society, 1991-present

TEACHING

Courses Taught

Precalculus
Calculus I
Calculus II
Calculus III
Calculus III (honors)
Introduction to Complex Variables
Introduction to Probability and Statistics
Topics in Mathematics for High School Teachers
Real Analysis I
Complex Analysis I
Complex Analysis II, Special Topics
Functions of Several Real Variables
History and Context of Mathematics
Introduction to Potential Theory and Sobolev Spaces
Potential Theory and Nonlinear Partial Differential Equations, Special Topics
Functional Analysis I
Functional Analysis II, Special Topics

Graduate Students

Supervised three PhD students, and four MS students at the University of Missouri, and a PhD student at the University of Birmingham, UK. Of these, Nguyen Cong Phuc is a tenure track Assistant Professor at Louisiana State University, Baton Rouge, after a Research Assistantship at Purdue Universirty, West Lafayette, Indiana. Benjamin Jaye is a tenure-track Assistant Professor at Kent State University, Ohio. Brian Hollenbeck is a Full Professor at Emporia State University, Emporia, Kansas. Abdullah Alotaibi is an Associate Professor at King Abdulaziz University, Saudi Arabia. Christopher Imm is a Professor at Johnson County Community College, Overland Park, Kansas.

Stephen Quinn, Ph.D. student, University of Missouri-Columbia, 2014-present

Cao Tien Dat, Ph.D. student, University of Missouri-Columbia, 2009-present

Benjamin Jaye, Ph.D., University of Missouri-Columbia, May 2011

Nguyen Cong Phuc, Ph.D., University of Missouri-Columbia, May 2006

Brian Hollenbeck, Ph.D., University of Missouri-Columbia, May 2001

Abdullah Alotaibi, M.S., University of Missouri-Columbia, December 2002

Nora Sprenger, M.S., University of Missouri-Columbia, July 1999

Brian Hollenbeck, M.S., University of Missouri-Columbia, July 1998

Christopher Imm, M.S., University of Missouri-Columbia, July 1996

FUNDED RESEARCH

Funding Agency	Period	Amount
NSF	6/2012-5/2015	$216,249 (continuing)

PI: I. E. Verbitsky
Award No. DMS-1161622
Project Title: "Nonlinear Potential Theory, Harmonic Analysis and Integral Inequalities"

NSF	6/2009-5/2012	$236,000

PI: I. E. Verbitsky
Award No. DMS-0901550
Project Title: "Nonlinear Sobolev Inequalities, Potential Theory and Harmonic Analysis"

NSF	6/2006-5/2009	$142,380

PI: I. E. Verbitsky
Award No. DMS-0556309
Project Title: "Nonlinear Potential Theory and Harmonic Analysis"

NSF	7/2000-6/2004	$89,913

PI: I. E. Verbitsky
Award No. DMS-0070623
Project Title: "Nonlinear Equations, Weighted Norm Inequalities, and Best Constants in Harmonic Analysis"

NSF	7/1997-6/2000	$72,000

PI: I. E. Verbitsky
Award No. DMS-9705757
Project Title: "Superlinear Equations and Weighted Norm Inequalities"

NSF	5/1994-10/1995	$20,000

PI: I. E. Verbitsky
Award No. DMS-9401493
Project Title: "Imbedding and Multiplier Theorems for Triebel-Lizorkin Spaces and Spaces of Holomorphic Functions"

NSF	5/2002-6/2002	$20,000

Co-PI: I. E. Verbitsky (with L. Grafakos, S. Hofmann, and A. Iosevich)
Award No. DMS-0222187
Project Title: "Conference on Harmonic Analysis and Partial Differential Equations"

UM Research Council	9/1999-12/1999	$1,000

PI: I. E. Verbitsky
Project Title: Research Leave for the Special Year "Potential Theory and Nonlinear Partial Differential Equations" at the Mittag-Leffler Institute, Stockholm

UM Research Board	6/1996-5/1997	$8,300

PI: I. E. Verbitsky
Award No. RB-96029
Project Title: "Weighted Trace Inequalities and Semilinear Problems"

RESEARCH ACTIVITY

Papers Presented at Conferences and Meetings

Plenary Lectures

International Workshop on Quasilinear Equations and Singular Problems,
Université Francois-Rabelais. Tours, France, June 4 - 6, 2012.
Invited Speaker, 1 hr. lecture.

International Workshop on Real Analysis, Harmonic Analysis and Applications,
Oberwolfach Mathematical Institute. Oberwolfach, Germany, July 24 - 30, 2011.
Invited Speaker, 1 hr. lecture.

Minicourse at Seminario di Analisi Matematica Bruno Pini,
University of Bologna, Italy, June 16 - 18, 2011, 3 one hour lectures.

International Workshop on Stochastic and Real Life Models 2011, University of Bielefeld.
Bielefeld, Germany, July 18 - 22, 2011.
Invited Speaker, 1 hr. lecture.

The Ohio River Analysis Meeting, University of Cincinnati.
Cincinnati, Ohio, January 29 - 30, 2011.
Invited Speaker, 1 hr. lecture.

International Conference on Harmonic Analysis and Applications, University of Seville.
Seville, Spain. June 14 - 18, 2010.
Invited Speaker, 1 hr. lecture.

International Workshop on Nonlinear Problems in PDEs, University of Parma.
Parma, Italy, May 25 - June 8, 2010.

Invited Speaker, 1 hr. lecture.

International Workshop on Nonlinear PDE and Boundary Value Problems with Measure Data, the Technion – Israel Institute of Technology. Haifa, Israel, March 1 - 5, 2010.
Invited Speaker, 1 hr. lecture.

Indam School on Symmetry for Elliptic PDEs: 30 Years after a Conjecture of De Giorgi and Related Problems. University of Rome La Sapienza. Rome, Italy, May 25 - 29, 2009.
Invited Speaker, 1 hr. lecture.

Conference on Recent Advances in Harmonic Analysis and Elliptic Partial Differential Equations. University of Virginia, Charlottesville, Virginia, May 8 - 10, 2009.
Invited Speaker, 1 hr. lecture.

International Conference on Potential Theory and Analysis of Growth Processes.
University of Orleans, Orleans, France, January 12 - 17, 2009.
Invited Speaker, 1 hr. lecture.

International Conference on Harmonic Analysis and Related Topics.
University of Seville, Seville, Spain, December 2 - 5, 2008.
Invited Speaker, 1 hr. lecture.

International Conference on Analysis, Partial Differential Equations and Applications.
University of Rome "La Sapienza," Rome, Italy, June 30 - July 3, 2008.
Invited Speaker, 1 hr. lecture.

International Workshop on Classical and Modern Harmonic Analysis: from Theory to Numerical Computation.
Maxwell Institute, Edinburgh, UK, Apr 30, 2008 - May 2, 2008.
Invited Speaker, 1 hr. lecture.

Wales Workshop on Mathematical Analysis and Modern Applications.
October, 2007. University of Swansea, UK.
Invited Speaker, 1 hr. lecture.

International Workshop on Harmonic Analysis and Partial Differential Equations.
September 12, 2007. University of Birmingham, Birmingham, UK.
Invited Speaker, 1 hr. lecture.

The Barcelona Analysis Conference (ICM-2006 Satellite Conference).
University of Barcelona, Barcelona, Spain, September 4 - 9, 2006.
Invited Speaker, 1 hr. lecture.

International School on Function Spaces and Applications.
Paseky nad Jizerou, the Czech Republic. June 1 - 8, 2003.
Featured Speaker, Six 75 min. lectures.

International School on Function Spaces and Operator Theory.
Joensuu University, Joensuu, Finland, May 19 - 23, 2003.
Featured Speaker, Six 1 hr. lectures.

International Workshop on Geometrical Analysis and Mathematical Physics.
Wolfersdorf, Germany, October 4 - 9, 1999.
Invited Speaker, 1 hr. lecture.

International Conference on Potential Analysis (ICPA-98).
Hammamet, Tunisia. November 2 - 7, 1998.
Invited Speaker, 1 hr. lecture.

International Conference on Functional Analysis, Partial Differential Equations and Applications (ICM-2002 Satellite Conference). University of Rostock, Rostock, Germany, August 31 - September 4, 1998.
Invited Speaker, 1 hr. lecture.

International School on Nonlinear Analysis, Function Spaces and Applications, **6**. Prague, the Czech Republic. June 1 - 6, 1998.
Featured Speaker, four 1 hr. lectures.

International Conference on Mathematical Analysis and Applications.
University of Linköping, Linköping, Sweden. June 10 - 15, 1996.
Invited Speaker, 1 hr. lecture.

Selected Invited Talks

AMS Meeting at the University of Tennessee.
Special Session "Harmonic Analysis and Nonlinear PDE."
Los Angeles, California. March 21-23, 2014

AMS Meeting at the UCLA.
Special Session "Harmonic Analysis."
Los Angeles, California. October 9-10, 2010

AMS Meeting at the University of New Mexico.
Special Session "Dyadic and Non-Dyadic Harmonic Analysis."
Albuquerque, New Mexico. April 17-18, 2010

AMS Meeting at Courant Institute, NYU.
Special Session "Nonlinear Elliptic Equations and Geometric Inequalities"
New York, New York. March 15-16, 2008

International Workshop on Operator Theory and Applications (IWOTA 2006).
Special Session "Operators on Function Spaces."
Seoul National University, Seoul, Korea. July 31-August 3, 2006.

The Second Joint Meeting of the American Mathematical Society,
Deutsche Mathematiker-Vereinigung, and Österreichische Mathematische Gesellschaft.
Special Session "Spectral Analysis of Differential and Difference Operators."
Mainz, Germany. June 16-19, 2005.

International Workshop on Operator Theory and Applications (IWOTA 2003).
Cagliari, Italy. June 24-27, 2003.

The First Joint International Meeting of the American Mathematical Society and the Real Sociedad Matemática Española. Special Session "Interpolation Theory, Function Spaces and Applications." Seville, Spain. June 18-21, 2003.

AMS Meeting at Williams College.
Special Session "Harmonic Analysis since the Williamstown Conference of 1978."

Williamstown, Massachusetts. October 13-14, 2001.

AMS Meeting at the University of Kansas.
Special Session on Harmonic Analysis and Applications.
Lawrence, Kansas. March 30-31, 2001.

AMS Meeting at the University of Alabama.
Special Session on Operators and Function Theory on Holomorphic Spaces.
Birmingham, Alalbama. November 10-12, 2000.

International Conference on Differential Equations and Applied Analysis.
Karmiel, Israel, May 18-20, 1999.

AMS Meeting at the University of Florida, Special Session on Markov Processes
and Potential Theory. Gainesville, Florida. March 12 - 13, 1999.

AMS Meeting at the University of New Mexico.
Special Session on Harmonic Analysis and Applications.
Albuquerque, New Mexico. November 8 - 9, 1997.

AMS Meeting at Kent State University.
Special Session on Harmonic Analysis and Applications.
Kent, Ohio. November 3 - 4, 1995.

International Conference on Applied and Industrial Mathematics.
Linköping, Sweden. June 6 - 10, 1994.

Selected Colloquia and Seminars

PDE Seminar, the Technion-Israel Institue of Technology, Haifa, Israel, June 4, 2013.

Harmonic Analysis Seminar, University of Paris-Sud, Orsay, France, January 2013.

Oberseminar Geometric Analysis, University of Bielefeld, Germany, July, 2012.

Colloquium at Louisiana State University, Louisiana State University,
Baton Rouge, Louisiana, March 2011.

Prague Function Spaces Seminar, Institute of Mathematics, Academy of Sciences,
Prague, the Czech Republic, June 2010.

Oberseminar Geometric Analysis, University of Bielefeld, Germany, July, 2010.

Barcelona Analysis Seminar, University of Barcelona, Spain, June, 2010.

Analysis Seminar at the University of Wisconsin, Madison, October 2009.

Analysis and PDE Seminar at the University of Bologna, Italy, May 2009.

Colloquium at the Australian National University, Canberra, Australia, July, 2008.

London Analysis and Probability Seminar, Kings College, London, UK, October 2007.

Analysis Seminar at the University of Edinburgh, UK, May 2007.

Colloquium at the University of Birmingham, UK, May 2007.

Colloquium at University College London, UK, March 2007.

Nonlinear Partial Differential Equations Seminar at Rutgers University, December 2006.

Joint Partial Differential Equations and Real Analysis Seminar at the University of Minnesota, November 2006.

Colloquium at Brown University, October 2006.

Colloquium at the University of Pittsburgh, March 2006.

Colloquium at Texas A&M University, February 2006.

The Calderon–Zygmund Analysis Seminar at the University of Chicago, January 2006.

Geometric Analysis Seminar at Princeton University, December 2005.

Colloquium at Purdue University, November 2005.

Function Spaces Seminar at the University of Jena, Germany, June 2005.

Colloquium at the University of Barcelona, Spain, June 2005.

Partial Differential Equations Seminar at the University of California-Santa Barbara, April 2005.

Colloquium at the Ohio State University, March 2004.

Colloquium at Jyväskylä University, Finland, June 2003.

Analysis–Geometry Seminar at Northeastern University, Boston, April 2003.

The Calderon–Zygmund Analysis Seminar at the University of Chicago, January 2003.

Colloquium at Michigan State University, March 2002.

Analysis Seminar at the Royal School of Technology, Stockholm, Sweden, November, 1999.

Analysis Seminar at Uppsala University, Uppsala, Sweden, October, 1999.

Analysis Seminar at Tel-Aviv University, Ramat Aviv, Israel, June 1999.

Colloquium at the Technion, Haifa, Israel, June 1999.

Colloquium at Bar-Ilan University, Ramat Gan, Israel, June 1998.

Functional Analysis Seminar at Hebrew University, Jerusalem, Israel, June 1998.

Analysis Seminar at the Norwegian University of Science and Technology, Trondheim, Norway, June 1998.

Potential Analysis Seminar at the Royal School of Technology, Stockholm, Sweden, June 1996.

Analysis Seminar at Uppsala University, Uppsala, Sweden, June, 1995.

Partial Differential Equations Seminar at the University of Minnesota, Minneapolis, November, 1994.

Complex Analysis Seminar at the University of Michigan, Ann Arbor, October, 1994.

Evaluating and Reviewing

Evaluator for the 2014 European Mathematical Society Monograph Award

Evaluator for the Alexander von Humboldt Research Award

Evaluator for Springer-Verlag book series (2 books, Lecture Notes in Mathematics and Graduate Texts in Mathematics)

Reviewer for the Cooperative Grants Program of the U.S. Civilian Research and Development Foundation, Washington, D.C.

Reviewer for Agencia de Qualitat Universitaria, Barcelona, Spain

Reviewer for the Czech Science Foundation, Prague, Czech Republic

Reviewer for faculty appointments at a major college in Israel

Reviewer for tenure and promotion at three major U.S. universities

Reviewer for the University of Missouri Research Board

Refereeing

Referee for Acta Mathematica (2 papers)

Referee for Advances in Mathematics (4 papers)

Referee for the Journal of the American Mathematical Society

Referee for the Journal of the European Mathematical Society

Referee for the Journal of Functional Analysis (8 papers)

Referee for Duke Mathematical Journal

Referee for the Transactions of the American Mathematical Society (2 papers)

Referee for the Proceedings of the American Mathematical Society

Referee for the Journal of Differential Equations (3 papers)

Referee for Comptes Rendus Mathématique Academie Sciences Paris (2 papers)

Referee for Arkiv för Matematik (3 papers)

Referee for the Proceedings of the Edinburgh Mathematical Society

Referee for the Canadian Journal of Mathematics (3 papers)

Referee for Complex Variables and Applications

Referee for Constructive Approximation

Referee for the Electronic Journal of Differential Equations

Referee for the Illinois Journal of Mathematics

Referee for the Indiana University Mathematics Journal (5 papers)

Referee for Integral Equations and Operator Theory (4 papers)

Referee for the Journal of Fourier Analysis and Applications (2 papers)

Referee for the London Mathematical Society

Referee for Mathematische Nachrichten

Referee for Mathematische Zeitschrift

Referee for the Journal of Mathematical Analysis and Applications (2 papers)

Referee for Potential Analysis (5 papers)

Referee for the Pacific Journal of Mathematics

Referee for the Rocky Mountain Journal of Mathematics (2 papers)

Referee for Studia Mathematica (3 papers)

Referee for Zeitschr. für Anal. Anwend.

Referee for Annali Math. Pura Applicata

Referee for the Czechoslovak Mathematical Journal

Referee for the Journal of Approximation Theory

Referee for Commun. Contemp. Math.

Referee for Annali Matem. Pura Applicata

Referee for Journal de Mathematiques Pures et Appliquees

Referee for Annales Sci. de l'Ecole Normale Superieure

Organizing Committees

Member of the Organizing Committee, London Mathematical Society Meeting, Birmingham, UK, June 9, 2008

Member of the Organizing Committee, International Workshop in Harmonic Analysis and Partial Differential Equations, Birmingham, UK, June 10-12, 2008

Member of the Organizing Committee, International Conference on Harmonic Analysis and Partial Differential Equations, Columbia, MO, May 8-11, 2002

Member of the Organizing Committee, International Conference
"Continued Fractions: From Analytic Number Theory to Constructive Approximation," Columbia, MO, May 20-23, 1998

SERVICE

Member of the Kalton Lecture Series Committee, Department of Mathematics, University of Missouri (2013)

Member of the Curators Professorship Selection Committee, University of Missouri (2012)

Chair of the Miller Fund Committee, Department of Mathematics, University of Missouri (2011-2012)

Member of the Marion Luther Defoe Chair Selection Committee, Department of Mathematics, University of Missouri (2012)

Member of the Search Committee for a tenure track position, Department of Mathematics, University of Missouri (2010)

Member of the Miller Fund Committee, Department of Mathematics, University of Missouri (2010-2013)

Member of the Annual Review Committee for Associate Professors, Department of Mathematics, University of Missouri (2003-2006, 2009-present)

Member of the Graduate Affairs Committee, Department of Mathematics, University of Missouri (2008-2010)

Member of the Executive Committee, School of Mathematics, University of Birmingham, UK (2007-2008)

Plagiarism Officer, School of Mathematics, University of Birmingham, UK (2007-2008)

University of Missouri Chess Club Faculty Advisor (2001-2007)

Chair of the Annual Review Committee for Assistant Professors, Department of Mathematics, University of Missouri (2006-2007)

Member of the Annual Review Committee for Assistant Professors, Department of Mathematics, University of Missouri (2000-2002, 2012-present)

Member of the Graduate and Doctoral Faculty Review Committee, Department of Mathematics, University of Missouri (2003-2004)

Member of the Qualifying Examination Committee, Department of Mathematics, University of Missouri (2000-2001)

Member of the Calculus III Curriculum Subcommittee, Department of Mathematics, University of Missouri (2001)

Member of the Graduate and Undergraduate Recruiting Committee, Department of Mathematics, University of Missouri (1996-1997, 1999-2000)

Member of the Undergraduate Advising Committee, Department of Mathematics, University of Missouri (1996-1999)

Member of the Curriculum Committee, Department of Mathematics, University of Missouri (1996-1997)

Mentor of two postdoctoral fellows (1998-2000, 2005-2006)

Mentor of a visiting professor (2000)

Promotion Committees for three faculty members at the University of Missouri

Tenure and Promotion Committee for a faculty member at the University of Missouri

Ph.D. Committees for 13 students at the University of Missouri

M.S. Committees for three students at the University of Missouri and two students at the University of Birmingham, UK

PUBLICATIONS

The order in which names appear does not necessarily reflect the relative importance of each author's contribution. References are given to Mathematical Reviews (MR) published by the American Mathematical Society.

Refereed Papers:

1. Verbitsky, I., Sereda, P.
The norm of the complex extension of an operator, *Mat. Issled.* **10** (1975), 201-206 (Russian) (MR 54 #5864)

2. Verbitsky, I.
Some relations between the norm of an operator and that of its complex extension, *Mat. Issled.* **42** (1976), 3-12 (Russian) (MR 58 #30357)

3. Verbitsky, I., Krupnik, N.
The applicability of the projection method to Toeplitz operators in an L_p-space with a weight, *Soviet Math. Iz. VUZ* 20 (1976), no. 8, 75–77 (English transl.) (MR 58 #23725)

4. Verbitsky, I., Krupnik, N.
Sharp constants in the theorems of K. I. Babenko and B. V. Hvedelidze on the boundedness of a singular operator, *Bull. Georgian Acad. Sci.* **85** (1977), 21-24 (Russian) (MR 56 #16460)

5. Verbitsky, I.
The convergence of Galerkin's method for singular integral equations in the space L_p, *Bull. Moldov. Acad. Sci.* **2** (1977), 21-27 (Russian) (MR 58 #13828)

6. Verbitsky, I.
Multipliers in l_p spaces with a weight, *Mat. Issled.* **45** (1977), 3-16 (Russian) (MR 57 #13561)

7. Verbitsky, I., Krupnik, N.
The applicability of the projection method to discrete Wiener- Hopf equations with a piecewise continuous symbol, *ibid.*, 17-28 (Russian) (MR 57 #17362)

8. Verbitsky, I.
The reduction method for powers of Toeplitz matrices, *Mat. Issled.* **47** (1978), 3-11 (Russian) (MR 80:d47045)

9. Verbitsky, I.
The projection methods for the solution of singular integral equations with piecewise continuous coefficients, *ibid.*, 12-24 (Russian) (MR 80:d47056)

10. Verbitsky, I., Krupnik, N.

Exact constants in theorems on the boundedness of singular operators in L_p spaces with a weight and their applications, *Mat. Issled.* **54** (1980), 21-35 (Russian) (MR 82b:45005)

11. Verbitsky, I.
Multipliers of spaces l_A^p, *Funct. Anal. Appl.* **14** (1980), no. 3, 219-220 (1981) (English transl.) (MR 81m:30054)

12. Verbitsky, I.
Solution of some filtration problems in macro-non-homogeneous aquifers, *Methods and results of hydrological research in Moldavia*, Stiintsa Publ., Kishinev (1980), 140-146 (Russian)

13. Zelenin, I., Verbitsky, I.
Determination of conductivity in the process of pumping, *Bull. Acad. Sci. Mold.*, Ser. Phys.-Tech. Math., no. 3 (1980), 60-62 (Russian)

14. Verbitsky, I.
Inner functions as multipliers of l_p-spaces, *Mat. Issled.* **61** (1981), 3-7 (Russian) (MR 82j:30045)

15. Verbitsky, I.
Inner functions as multipliers of D_α spaces, *Function. Anal. Appl.* **16** (1982), no. 1, 194-196 (English transl.) (MR 84a:30060)

16. Zelenin, I., Verbitsky, I.
Interpretation of tritium distribution in ground waters by means of mathematical modelling, *Bull. Acad. Sci. Mold.*, Ser. Phys.-Tech. Math., no. 3 (1982), 56-60 (Russian)

17. Zelenin, I., Verbitsky, I.
Tritium in the ground waters of Moldavia and hydrological interpretation of its data, *Water Resources* **4** (1984), 70-81 (English transl.)

18. Verbitsky, I.
Inner functions, Besov spaces, and multipliers, *Soviet Math. Dokl.* **29**, no. 3 (1984), 407-410 (English transl.) (MR 86k:30041)

19. Verbitsky, I., Krupnik, N.
Vectorial Toeplitz operators on Hardy spaces, *Lecture Notes in Math.*, Springer, **1043** (1984), 276-278 (English)

20. Verbitsky, I., Krupnik, N.
The norm of the Riesz projection, *Lecture Notes in Math.*, Springer, **1043** (1984), 325-327 (English)

21. Verbitsky, I.
An estimate of the norm of a function in a Hardy space in terms of the norms of its real and imaginary parts, "Fifteen Papers on Functional Analysis," *Amer. Math. Soc. Transl.*, Ser. 2, **124** (1984), 11-15 (English transl.) (MR 81k:30046, 85m:00008)

22. Verbitsky, I.
Embedding theorems for harmonic extensions of functions in Sobolev spaces, *Soviet Math. Dokl.*, **32**, no. 4 (1985), 486-489 (English transl.) (MR 87e:46052)

23. Verbitsky, I.

Multipliers in spaces with "fractional" norms and inner functions, *Siberian Math Journ.*, **26**, no. 2 (1985), 51-76 (English transl.) (MR 86k:30041)

24. Verbitsky, I. Substantiation of a hydrodynamic model of the formation of tritium concentrations in an aquifer, *Water Resources*, **14**, no. 3 (1988), 292-296 (English transl.) (GeoRef 1988-040212)

25. Verbitsky, I.
On Taylor coefficients and L^p- moduli of continuity of Blaschke products, *Journ. Soviet Math.*, **36** (1987), no. 3, 314-319 (English transl.) (MR 84d:30059)

26. Verbitsky, I.
Weighted norm inequalities for maximal operators and Pisier's theorem on factorization through $L^{p,\infty}$, *Integral Equat. Operator Theory*, **15** (1992), 121-153 (MR 93d:42017)

27. Zelenin, I., Verbitsky, I.
Modeling the natural ground water regime in the southern Dnester and Prut interfluve area, *Water Resources*, **21**, no. 6 (1994), 600-607 (English transl.) (GeoRef 1995-060569)

28. Cohn, W., Verbitsky, I.
On the trace inequalities for Hardy-Sobolev functions in the unit ball of $\mathbf{C^n}$, *Indiana Univ. Math. J.*, **43**, no. 4 (1994), 1079-1097 (MR 96b:32002)

29. Cohn, W., Verbitsky, I.
Non-linear potential theory on the ball, with applications to exceptional and boundary interpolation sets, *Michigan Math. J.*, **42**, no. 1 (1995), 79-97 (MR 96b:32003)

30. Maz'ya, V., Verbitsky, I.
Capacitary inequalities for fractional integrals, with applications to partial differential equations and Sobolev multipliers, *Arkiv för Matematik*, **33** (1995), 81-115 (MR 96i:26021)

31. Verbitsky, I., Wheeden R.
Weighted trace inequalities for fractional integrals and applications to semilinear equations, *J. Functional Analysis*, **129**, no. 1 (1995), 221-241 (MR 95m:42025)

32. Verbitsky, I.
Imbedding and multiplier theorems for discrete Littlewood-Paley spaces,
Pacific J. Math., **176**, no. 2 (1996), 529 - 556 (MR 98j:42026)

33. Verbitsky, I., Wheeden R.
Weighted norm inequalities for integral operators, *Trans. Amer. Math. Soc.*, **350**, no. 8 (1998), 3371-3391 (MR 98k:42020)

34. Hansson, K., Maz'ya, V., and Verbitsky, I.
Criteria of solvability for multidimensional Riccati's equations, *Arkiv för Matematik*, **37**, no. 1 (1999), 87-120 (MR 2000e:35045)

35. Kalton, N., Verbitsky, I.
Nonlinear equations and weighted norm inequalities, *Trans. Amer. Math. Soc.*, **351**, no. 9 (1999), 3441-3497 (MR 99m:35073)

36. Verbitsky, I.
Superlinear equations, potential theory and weighted norm inequalities, *Nonlinear Analysis, Function Spaces and Applications*, **6**. Proc. Spring School, Prague, May 31 - June 6, 1998. Acad. Sci. Czech Repub., Prague, 1999, 223-269 (MR 2002d:31006)

37. Verbitsky, I.
Nonlinear potentials and trace inequalities, *Operator Theory: Advances and Applications*, **110**. The Maz'ya anniversary collection, Vol. 2. Proc. Intern. Conf. on Functional Analysis, Partial Differential Equations and Applications. Rostock, Germany, August 31 - September 4, 1998. Birkhäuser Verlag, 1999, 323-343 (MR 2001g:46086)

38. Cascante, C., Ortega, J., Verbitsky, I.
Trace inequalities of Sobolev type in the upper triangle case, *Proc. London Math. Soc.*, **80**, no. 2 (2000), 391-414 (MR 2001a:31008)

39. Verbitsky, I.
A dimension-free Carleson measure inequality, in: Complex analysis, operators, and related topics. The S.A. Vinogradov Memorial Volume. *Operator Theory: Advances and Applications*, **113**. Birkhäuser Verlag, 2000, 393-398 (MR 2001i:42032)

40. Cohn, W., Verbitsky, I.
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Co-authored two books on mathematical modeling in hydrology (in Russian).