

# Curriculum vitae of Tatyana Shaposhnikova

Associate Professor

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## Education

- Graduated from the Leningrad University in 1969
- 1969–1972 postgraduate student of the same University
- Candidate of Science (Ph. D.) Degree in 1973 from the Leningrad University

## Employment

- 1973–1979 assistant professor, Department of Mathematics, Leningrad Military Academy
- 1979–1983 assistant professor, Department of Mathematics, Leningrad Institute of Refrigeration Industry
- 1983–July 1990 associate professor, docent, Department of Mathematics, Leningrad Finance and Economics Institute
- from July 1, 1991– associate professor (universitetslektor), Department of Mathematics, the University of Linköping
- 2004–2008, each year January-June – full professor, Department of Mathematics, Ohio State University

## Awards

- March 2003, Verdaguer Prize of the French Academy of Sciences
- May 2010, Thuréus Prize of the Royal Society of Sciences in Uppsala

## Books

- Maz'ya V., Shaposhnikova T. *Theory of Multipliers in Spaces of Differentiable Functions*, Pitman, 1985 (Russian version: Leningrad University Press, 1986).
- Shaposhnikova T., Polyshchuk E. *Jacques Hadamard*, Nauka, Leningrad, 1990.

- Maz'ya V., Shaposhnikova T. , *Jacques Hadamard, a Universal Mathematician*, American Mathematical Society and London Mathematical Society, 1998.
- Maz'ya, V., Shaposhnikova, T., *Jacques Hadamard, un Mathématicien Universel*. EDP Sciences, Paris, 2005 (revised and extended translation from English).
- Kresin G., Maz'ya, V. *Sharp Real-Part Theorems. A Unified Approach*, Translated from Russian and edited by T. Shaposhnikova, Springer, 2007.
- Maz'ya V., Shaposhnikova T., *Jacques Hadamard, Legend of Mathematics*. MCNMO Publishers, Moscow, 2008 (revised, extended, and authorized translation from English to Russian).
- Maz'ya V., Shaposhnikova T., *Theory of Sobolev Multipliers with Applications to Differential and Integral Operators*, Grundlehren der Mathematischen Wissenschaften, vol. 337, Springer, 2009.
- Maz'ya V., Soloviev, A., *Boundary Integral Equations on Contours with Peaks*, Translated from Russian and edited by T. Shaposhnikova, Operator Theory Advances and Applications, vol. 196, Birkhäuser, 2010.

#### Selected symposium talks

- 1990 (October)–Meeting of the Swedish Mathematical Society, Linköping
- 1991 (August)–International Conference on Potential Theory, Amersfoort
- 1992 (March)–International Conference on Boundary Value Problems, Rostock
- 1993 (January)–Conference on Sobolev Spaces and Their Related Fields, Kyoto
- 1994 (June)–International Conference on Applied and Industrial Mathematics, Linköping
- 1995 (June)–IABEM Symposium on Boundary Element Methods for Non-linear Problems, Siena
- 1996 (May)–Workshop on Conformal Geometry, Trondheim
- 1996 (October)–Conference on Analysis, Numerics and Applications of Differential and Integral Equations, Stuttgart
- 1998 (May) IABEM Symposium on Boundary Element Methods, Ecole Polytechnique, Palaiseau (Paris)
- 1998 (August)–A conference in honour of Vladimir Maz'ya, Functional Analysis, Partial Differential Equations and Applications, Rostock
- 1998 (October)–International Symposium in Memory of G. Fichera “Problemi Attuali dell' Analisi e della Fisica Matematica”, Taormina.
- 1999 (March)–Conference in Memory of S. Prössdorf “Recent Advances in Analytical and Numerical Treatment of Operator Equations”, Chemnitz.
- 1999 (May)– “Braude College Days of Differential Equations and Applied Analysis”, Karmiel.

- 1999 (June)–Conference “Integral Inequalities and Applications”, Cortona.
- 1999 (August)–A conference in honour of Lars Gårding on Analysis and Mathematical Physics, Lund
- 2000 (July)–IABEM 2000, Brescia.
- 2000 (July)–PDE 2000, Clausthal.
- 2000 (August)–A conference in honour of Jaak Peetre, Function spaces, Interpolation Theory and related topics, Lund.
- 2000 (September)–IWOTA Portugal 2000, Faro.
- 2001 (June)–A conference in honour of Hans Triebel, Function Spaces, Differential Operators and Nonlinear Analysis, Teistungen
- 2001 (July)–Workshop in Nonlinear Differential Equations, Bergamo
- 2001 (August)–Third International ISAAC Congress, Berlin
- 2002 (June) IABEM Conference on Acoustics, Mechanics, and the Related Topics of Mathematical Analysis, Frejus, France
- 2002 (August)– invited talk at the Conference on Nonlinear Analysis (Satellite to ICM 2002), Taipei
- 2002 (August)– International Congress of Mathematicians, Beijing
- 2003 (June)– Workshop in Operator Theory in Analysis and Engineering, Darmstadt
- 2004 (September) – International Conference on Boundary Integral Methods: Theory and Applications, Reading
- 2005 (July) – Conference on Operator Theory, Function Spaces and Applications, Aveiro
- 2006 (April) – 1015th Meeting of the American Mathematical Society, Miami
- 2006 (June) – Workshop on Function Spaces and Differential Equations, St. Catharines
- 2006 (August) – Conference on Geometric Methods in Nonlinear PDE and Free Boundary Problems, St. Petersburg
- 2006 (September) – invited talk at the International Conference on Complex Analysis and Potential theory (Satellite to ICM 2006), Gebze
- 2007 (April) – 1027th Meeting of the American Mathematical Society, Tucson, Arizona
- 2008 (April) – invited talk at the International Conference on Analysis, Operator Theory and Applications, Cancun
- 2008 (June) – Conference on Analysis, PDEs and Applications on the occasion of the 70th birthday of Vladimir Maz’ya, Rome
- 2008 (August) – Nordic–Russian Symposium in honour of Vladimir Maz’ya on the occasion of his 70th birthday, Stockholm
- 2009 (July) – Seventh ISAAC Congress, London

- 2009 (July 29 - August 2) – Spectral Theory and Geometric Analysis, Boston
- 2009 (August 7 –9) – Advances in Boundary Integral Equations and Related Topics, Newark, Delaware
- 2010 (June) – Workshop on Harmonic Analysis and Related Topics, Lisbon
- 2010 (October) – Workshop on Harmonic Analysis and Elliptic PDEs, Linköping

### **Research Grants**

- 1992/1993 and 1993/1994 academic years– grants from the Department of Mathematics, Linköping University
- 1999–2001 grant from the Swedish National Science Research Council (NFR)
- 2002 grant from the Department of Mathematics, Linköping University
- 2003-2005 grant from the Swedish National Science Research Council (VR)
- 2008-2010 grant from the Department of Mathematics, Linköping University

### **Member of Editorial Boards**

- Complex Variables and Elliptic Equations. An International Journal, USA.
- Eurasian Mathematical Journal, Kazakhtan

### **Member of Committees**

- Ethics Committee of the European Mathematical Society

### **Lecture Courses**

- 1973–1979 Leningrad Military Academy: calculus, linear algebra, transform theory
- 1979–1983 Leningrad Institute of Refrigeration Industry: calculus, linear algebra, probability and statistics
- 1983–1990 Leningrad Finance and Economics Institute: calculus, linear algebra, transform theory, elementary course in mathematical physics
- 1987 (April) University of Rostock: Function spaces and theory of multipliers
- 1990– Linköping University: calculus, linear algebra, second course calculus
- 2000 (March) University of Basilicata: Introduction to the theory of Sobolev multipliers
- 2001 (January-February) University of Stuttgart: Sobolev spaces and multipliers
- 2004-2008 (January -June) Ohio State University: Calculus and Analytic Geometry

### **Additional information**

- 1987 (April) Visiting Professor, Rostock University
- 1991 (January) Research guest of Mittag-Leffler Institute
- 2000 (March) Visiting Professor, University of Basilicata
- 2001 (January-February) Visiting Professor, University of Stuttgart
- 2003 (January-June) Visiting Professor, Northeastern University
- 1978–1990 Reviewer for Russian Mathematical Reviews
- 1983–1997 Reviewer for Zentralblatt