

## Personal Information

Full Name: Tatiana S. Lebedeva (Podguzova)  
Citizenship: Russian Marital status: Married  
Place of birth: St.-Petersburg, Russia  
Date of birth: 20.09.1986  
Position: Specialist at Educational Resource Center of Physics, Saint-Petersburg State University  
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## Education

2007-2010 **Saint-Petersburg State University, Russia**  
Diploma: *Master of Science in Physics*  
Research fields: Statistical Theory of Inhomogeneous Systems  
Affiliation: Physics Faculty, Department of Statistical Physics GPA 4,73

2007-2010 **Saint-Petersburg State University, Russia**  
Diploma: Economist, Specialist (level 5A in ISCED classification of UNESCO)  
Research fields: Production cost calculation systems  
Affiliation: Economics Faculty, Department of Accounting, analysis and audit GPA 4,46

2003-2007 **Saint-Petersburg State University, Russia**  
Diploma: *Bachelor of Science in Physics*  
Research fields: Statistical Theory of Inhomogeneous Systems  
Affiliation: Physics Faculty, Department of Statistical Physics GPA 4,60

1999-2003 **Lyceum №30** specialized in physics and mathematics, St.-Petersburg, Russia  
Graduate Education Certificate

## Professional experience

Since 2014 **Saint-Petersburg State University, Russia**, Post doctoral position,  
Department of Statistical Physics

2012-2014 **Saint-Petersburg State University, Russia**,  
Specialist at Educational Resource Center of Physics

2010-2013 **Saint Petersburg State University, Russia**  
Diploma: PhD (defense on 26th December 2013)  
Specialization: Theoretical physics  
Subject: Study of overlapping surface layers in the theory of nucleation on  
charged particles  
Affiliation: Physics Faculty, Department of Statistical Physics

2011-2012 **Saint-Petersburg State University, Russia**,  
Engineer of Department of Theoretical physics - Physics Faculty and Department of  
Colloid Chemistry - Chemistry faculty

- 2010-2011 **Ecole Polytechnique**, France, Internship in research project at the Irradiated Solids Laboratory
- 2008-2009 **Saint-Petersburg State University of Telecommunication by the name of Bonch-Bruевич**, Russia, Tutor and lecturer at Department of Mathematic

## Conferences

- *November 14-16, 2007*, International conference ‘Physics and progress’, St.-Petersburg, Russia.
- *September 24-28, 2008*, Natural and anthropogenic aerosols VI, St.-Petersburg, Russia.
- *August 10-14, 2009*, 18th International Conference on Nucleation & Atmospheric Aerosols, Prague, Czech Republic
- *May 21-24, 2010*, International Conference ‘Physics of Liquid Matter: Modern Problems’, Kyiv, Ukraine
- *April 13-20, 2013*, XVII Research Workshop "Nucleation Theory and Applications", Dubna, Russia
- *June 24-28, 2013*, XIX International Conference on Chemical Thermodynamics in Russia, Moscow, Russia
- *30 June- 5 July, 2013*, IV International Conference on Colloid Chemistry and Physicochemical Mechanics, Moscow, Russia
- *1-6 September, 2013*, 27th Conference of European Colloid and Interface Society, Sofia, Bulgaria
- *11-14 June, 2015*, 28th European Symposium on Applied Thermodynamics, Athens, Greece.
- *22-26 June, 2015*, XX International Conference on Chemical Thermodynamics in Russia, Nizhni Novgorod, Russia
- *6-11 September, 2015*, 29th Conference of European Colloid and Interface Society, Bordeaux, France
- *6-8 October, 2015*, Droplets, Enschede, The Netherlands
- *26-28 October, 2015*, The second reading of the memory of Professor B.L. Ovseevich "Economic-mathematical studies: mathematical models and information technologies", St.-Petersburg, Russia

## Publications

- *A.K. Щёкин, T.C. Лебедева, Д.В. Татьянаенко*, Ключевые термодинамические характеристики нуклеации на заряженных и нейтральных ядрах молекулярного размера в рамках градиентного метода функционала плотности // Коллоидный журнал, 2016, принято к печати.
- *A.K. Shchekin, T.S. Lebedeva (Podguzova), D.V. Tatyanyenko*, Dependence of the condensate chemical potential on droplet size in thermodynamics of heterogeneous nucleation within the gradient DFT // Fluid Phase Equilibria, 2016, doi:10.1016/j.fluid.2016.02.025, in press
- *Лебедева Т.С., Ковалевский Д.В.*, Стохастическая динамика цен в модели финансового рынка с шумовыми агентами различных типов // Политематический сетевой электронный научный журнал кубанского государственного аграрного университета, 2015. Т. 10, № 114, pp. 1489-1501
- *V.B. Warshavsky, T.S. Podguzova, D.V. Tatyanyenko, A.K. Shchekin*, Thermodynamics of a liquid wetting film on a spherical particle with an adsorbed ion // Colloid journal, 2013. Vol. 75, № 5, pp. 504-513
- *V.B. Warshavsky, T.S. Podguzova, D.V. Tatyanyenko, A.K. Shchekin*, Vapor nucleation on a wettable nanoparticle carrying a non-central discrete electric charge // The Journal of Chemical Physics, 2013. Vol. 138, № 19, pp. 194708\_1-12
- *A.K. Shchekin, T.S. Podguzova*, The modified Thomson equation in the theory of heterogeneous nucleation on charged solid particles // Atmospheric Research, 2011. Vol. 101, № 3, pp. 493-502
- *T.S. Podguzova*. // Thesis of the student’s conference “Physics and progress - 2007”, St.-Petersburg, SPBGU, physics department, 2007, pp.125.
- *T.S. Podguzova*. // Collected papers of the student’s conference “Physics and progress”, St.-Petersburg, SPBGU, physics department, 2007, pp.317-322.
- *A.K. Shchekin, T.S. Podguzova*. // Thesis of the conference “Natural and anthropogenic aerosols VI”, St.-Petersburg, SPBGU, physics department, 2008, pp.77-78.

- A.K. Shchekin, T.S. Podguzova. // Thesis of the conference “18th International Conference on Nucleation & Atmospheric Aerosols”, Prague, Czech Republic, 2009, pp.452-455
- A.K. Shchekin and T.S. Podguzova, Role of the disjoining pressure in thermodynamics of nucleation on charged nanosized solid nuclei // Abstracts of “5th International Conference Physics of Liquid Matter: Modern Problems” (PLMMP-2010) ed. L. Bulavin, Kiev, Ukraine, Kyiv National University, 4-22.P.
- T.S. Podguzova, V.B. Warshavsky, A.K. Shchekin, Thermodynamics of droplet formation on solid particle with electric charge located at the particle surface // Abstracts of “XIX International Conference on Chemical Thermodynamics in Russia” (RCCT-2013), 2013, Moscow, P. 360
- V.B. Warshavsky, T.S. Podguzova, D.V. Tatyanyenko, A.K. Shchekin, Vapor Nucleation on a Wettable Nanoparticle Carrying an Adsorbed Elementary Electric Charge // Abstracts of “IV International Conference on Colloid Chemistry and Physicochemical Mechanics”, 2013, Moscow, P. 174-176
- V.B. Warshavsky, T.S. Podguzova, D.V. Tatyanyenko, A.K. Shchekin, Thermodynamics of liquid film nucleation on a solid dielectric particle with a charge localized not at the particle center // Abstracts of «27th Conference of European Colloid and Interface Society», 2013, Sofia, Bulgaria, T4.P3
- T.S. Lebedeva (Podguzova), A.K. Shchekin, D.V. Tatyanyenko Application of the density functional approach to thermodynamics of thin film on charged solid particles // Abstracts of “XX International Conference on Chemical Thermodynamics in Russia” (RCCT-2015), 2015, Nizhni Novgorod, P. 335
- A.K. Shchekin, T.S. Lebedeva (Podguzova), D.V. Tatyanyenko Thermodynamics of thin liquid film on a charged spherical particle // Abstracts of 28 European Symposium on Applied Thermodynamics, ESAT 2015, Athens, P. 91
- A.K. Shchekin, T.S. Lebedeva (Podguzova), D.V. Tatyanyenko How to separate contributions from surface tension, disjoining pressure, and electric field in inhomogeneous nanodroplet, ECIS 2015, Bordeaux, P10-9
- A.K. Shchekin, T.S. Lebedeva (Podguzova), D.V. Tatyanyenko Structure and thermodynamic properties of equilibrium and critical droplets in nucleation on charged and wettable particles, Droplets 2015, Enschede, P. 195
- Лебедева Т.С., Ковалевский Д.В., Стохастическое моделирование динамики цен на финансовых рынках в условиях «стадного поведения» агентов // Вторые чтения памяти профессора Б.Л. Овсиевича «Экономико-математические исследования: математические модели и информационные технологии»: Материалы Всероссийской конференции, 2015, г. Санкт-Петербург

## Computer skills

Programming: Fortran, C++

Software: Maple, Microsoft Office, Matlab, Quantum Espresso.

## Language skills

Russian – native

English – fluent

French – basic