

# Svetlana B. Todorova, PhD

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## SUMMARY

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- Over 20 years teaching and research experience in Statistics at both undergraduate and graduate levels
- Use new technologies in the classroom, as appropriate, to facilitate learning plus huge experience using instructional software
- Responsible, flexible, adaptable person who participate in determining appropriate goals and objectives of mathematics courses
- Person with strong work ethics and proven ability to work with a diverse faculty and student population
- Author and co-author of over 30 publications, including monographs, books and textbooks, papers, presented at the international conferences

## EDUCATION

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2001 - 2006 **PhD in Statistics**, Varna University of Economics, Bulgaria

PhD Thesis: **Household Consumption in Republic of Bulgaria: Analyses, Modeling and Forecasting**

1994 - 1995 **MS** with Honors in **Statistics**, Varna University of Economics, Bulgaria

1991 - 1994 **BS** with Honors in **Socio-Economic Information**, Varna University of Economics, Bulgaria

1985 - 1989 **High School Diploma in Mathematics**, Mathematical High School D-r Petar Beron, Varna, Bulgaria. Majors: Mathematics and Programming

## TEACHING EXPERIENCE

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### Assistant Professor

11/1995 – Present - **Chief Assistant Professor in Statistics**, Department of Statistics and Applied Mathematics, Varna University of Economics, Bulgaria

- Courses: **Introduction to Statistics, Economic Statistics, Business Statistics, Econometrics part I** (cross-sectional data) and **Econometrics part II** (time-series data), **International Human Resources and Quality Management, Research Methods for Business, Graduate Seminars** at both undergraduate and graduate level
- Provide students one-on-one instruction as well as individualized guidance or working in groups, answering questions and administering tests
- Facilitate students' self-paced learning process using traditional teaching methods and materials such as mini-lectures, textbooks and study guides as well as Excel and SPSS software in combination with the Moodle Learning System.

## Lecturer

01/2014 – 06/2018 **Visiting Lecturer in Business Statistics and Information Analysis – D'Amore-McKim School of Business, Northeastern University, Boston, MA**

- Courses: **Business Statistics (undergrad., 4 credits)** and **Information Analysis (grad., 3 credits)** at both undergraduate and graduate level
- Work with students with different levels and different majors and diverse population
- Provide students one-on-one instruction as well as individualized guidance or working in groups, answering questions and administering tests
- Facilitate students' self-paced learning process using traditional teaching methods and materials such as mini-lectures, textbooks and study guides as well as Excel and SPSS software in combination with the Blackboard Learning System.

## Lecturer

01/2016 – 06/2018 **Part-time Lecturer in Applied Statistics, Suffolk University, Boston, MA**

- Courses: **Applied Statistics with SPSS (undergrad., 4 credits)**
- Work with students with different levels and different majors and diverse population
- Provide students one-on-one instruction as well as individualized guidance or working in groups, answering questions and administering tests
- Facilitate students' self-paced learning process using traditional teaching methods and materials such as mini-lectures, textbooks and study guides as well as Excel and SPSS software, "McGraw-Hill Connect" in combination with the Blackboard Learning System.

## Assistant Professor

09/2013 – 12/2017 **Adjunct Assistant Professor in Statistics – Bentley University, Department of Mathematical Science, Waltham, MA**

- Courses: **Business Statistics (undergrad., 3 credits)** and **Managerial Statistics (grad., 3 credits, Hybrid course)** at both undergraduate and graduate level
- Work with students with different levels and different majors and diverse population
- Provide students one-on-one instruction as well as individualized guidance or working in groups, answering questions and administering tests
- Facilitate students' self-paced learning process using traditional teaching methods and materials such as mini-lectures, textbooks and study guides as well as Excel, SPSS software, "McGraw-Hill Connect" in combination with the Blackboard Learning System, and Saba, an **online** collaboration software tool.

## Lecturer

1/2013 – 12/2013 **Part-time Lecturer in Statistics and Mathematics – Lasell College, Department of Mathematics and Science, Newton, MA**

- Courses: **Mathematical Statistics (undergrad., 3 credits, prerequisite Calculus II)**, **Statistics (undergrad., 3 credits)**, and **College-level Mathematics (undergrad., 3 credits)**
- Work with students with different levels and different majors and diverse population
- Provide students one-on-one instruction as well as individualized guidance or working in groups, answering questions and administering tests

- Facilitate students' self-paced learning process using traditional teaching methods and materials such as mini-lectures, textbooks and study guides as well as new interactive methods specifically "XYZ homework" and "MyStatLab" software in combination with the Moodle Learning System.

## Assistant Professor

8/2012 - 12/2013 **Adjunct Assistant Professor in Statistics – Curry College**, Department of Natural Sciences and Mathematics, Milton, MA

- Courses: **Statistics (undergrad., 3 credits)**, and **Problem Solving Strategies in Mathematics (undergrad., 3 credits)**
- Work with students with different abilities and different levels of Math and Statistical knowledge
- Provide students one-on-one instruction as well as individualized guidance or working in groups, answering questions and administering tests
- Facilitate students' self-paced learning process using traditional teaching methods and materials such as mini-lectures, textbooks and study guides as well as new interactive methods specifically "MyStatLab" software in combination with the Blackboard Learning System

## Instructor

9/2012 – 12/2012 **Instructor in Probability and Statistics – Wentworth Institute of Technology**, Department Applied Mathematics, Boston, MA

- Courses: **Probability and Statistics for Engineers (undergrad., 4 credits, prerequisite Calculus II)**
- Provide students one-on-one instruction as well as individualized guidance or working in groups, answering questions and administering tests
- Facilitate students' self-paced learning process using traditional teaching methods and materials such as mini-lectures, textbooks and study guides as well as Excel and new interactive methods in combination with the Blackboard Learning System

## Instructor

1/2012 – 7/2012 **Instructor in Statistics and Mathematics – Bunker Hill Community College**, Division of Mathematics, Boston, MA

- Courses: **Statistics (3 credits)** and **College-level Mathematics (3 credits)**
- Work with students with different abilities and different levels of Math knowledge diverse population
- Provide students one-on-one instruction as well as individualized guidance or working in groups, answering questions and administering tests
- Facilitate students' self-paced learning process using traditional teaching methods and materials such as mini-lectures, textbooks and study guides as well as new interactive methods specifically "MyMathLab" and "MyStatLab" software

## Lectures and Practical Training

Multidisciplinary Subject with **Core Discipline Statistics** and **Cross Disciplinary Expertise in Economics and Econometrics**, International Exchange Program Socrates - Erasmus:

9/2008 **Economic Growth and Household Consumption in the EU**, University Lucian Blaga of Sibiu, Sibiu, Romania

5/2006 **Economic Growth and its Impact of the Consumption Function**, University de la Mediterranee (Aix-Marseille), Aix-en-Provence, France

5/2005 **Long-term and Short-term Consumption Functions**, University de la Mediterranee (Aix-Marseille), Aix-en-Provence, France

9/2004 **Macroeconomics Indicators in the Period of Transition**, University de la Mediterranee (Aix-Marseille), Aix-en-Provence, France

## PROFESSIONAL DEVELOPMENT

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**02/2016– 04/2016** Certificate/Statement of Accomplishment: ***Applied Regression Analysis***, The Ohio State University, College of Public Health

**02/2015– 05/2015** Certificate: edX-MITx: ***6.041x: Introduction to Probability - The Science of Uncertainty***, Massachusetts Institute of Technology, Department of Electrical and Computer Science, Authenticity of this certificate can be verified at <https://verify.edx.org/cert/3f5d98b08d4a4eb8aa8288e5ef12c129>

**09/2014– 12/2014** Certificate: edX-MITx: ***CTL.SC1x: Supply Chain and Logistics Fundamentals***, Massachusetts Institute of Technology, Center for Transportation & Logistics, Authenticity of this certificate can be verified at <https://verify.edx.org/cert/13219e3f233d44d398a64b8348fdf644>

**05/2014– 06/2014** Certificate/Statement of Accomplishment with Distinction: ***Mathematical Biostatistics Boot Comp 2***, Johns Hopkins University, Bloomberg School of Public Health

**11/2013– 01/2014** Certificate/Statement of Accomplishment with Distinction: ***Mathematical Biostatistics Boot Comp 1***, Johns Hopkins University, Bloomberg School of Public Health

**07/2013– 08/2013** Certificate/Statement of Accomplishment: ***Case-Based Introduction to Biostatistics***, Johns Hopkins University, Bloomberg School of Public Health

**07/2013– 09/2013** Certificate: BerkeleyX: ***Stat2.3: Introduction to Statistics: Inference***, The University of California At Berkeley, Authenticity of this certificate can be verified at <https://verify.edx.org/cert/b495f6e76ce9415ebab0dce18456f757>

**06/2013– 08/2013** Certificate: ***Statistics in Medicine***, Stanford University, Authenticity of this Statement of Accomplishment can be verified at <https://verify.class.stanford.edu/SOA/fda39477321b4c5eb8e0203bc6c2ed3e>

**04/2013– 05/2013** Certificate: BerkeleyX: *Stat2.2x: Introduction to Statistics: Probability*, The University of California At Berkeley, Authenticity of this certificate can be verified at <https://verify.edx.org/cert/a1e4026e86ec49bb8f8b8b4f070b093e>

**02/2013– 04/2013** Certificate: BerkeleyX: *Stat2.1: Introduction to Statistics: Descriptive Statistics*, The University of California At Berkeley, Authenticity of this certificate can be verified at <https://verify.edx.org/cert/6f3e9b64263647349fc8e44d9bdecd4f>

**10/2012– 02/2013** Certificate: edX-HarvardX, *PH207x: Health in Numbers: Quantitative Methods in Clinical & Public Health Research (Biostatistics)*, Harvard University, Harvard School of Public Health, Authenticity of this certificate can be verified at <https://verify.edx.org/cert/e4dc4b207e9f4a0fb9710ccfc40433cb>

**7/2012** On-line Workshop on MyMathLab, MyStatLab, and MathXL, Pearson Education for Faculty

**6/2002** Modern Approaches to Teaching and Research in Demography in the Regions with Ethnic Minorities, International Summer School in Applied Statistics and Econometrics, Summer Semester, Sozopol, Bulgaria

**6/2000** Certificate: **Time Series Analysis and Forecasting: Applications and Advances**, International Summer School in Applied Statistics and Econometrics, Summer Semester, Sozopol, Bulgaria

**4/1997** Certificate: **Microeconometrics - the Econometrics of Cross-Section and Panel Data**, International Summer School of Economics, Spring Semester, Debe, Poland. Lectures led by Professor Stephan Padney, University of Leicester, UK

**6/1992 – 8/1992** Certificate: **Principles of Microeconomics**, International Summer School of Economics, The University of Delaware

**6/1992 – 8/1992** Certificate: **International Economics**, International Summer School of Economics, The University of Delaware

## **OTHER PROFESIONAL EXPERIENCE**

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### **Lead Statistician and Evaluator (Federal Grand)**

**07/2015 – 06/2016** Project at Roger Williams University, Bristol, RI & Providence Public School District (*Federal Grand*)

- *Encore In Math*: Consultation and statistical analysis in multidisciplinary research group focusing on enhancing content knowledge and pedagogical skill with the common core state standards for mathematics. Responsibilities including managing large data sets, providing implementation of statistical design, performing and supervising advance statistical analysis of data and explaining statistical methodology.

## Consultant

07/2004 –09/2004 Pear Energy Group, 3 Park Avenue, New York, NY

- Developed a Detailed Profile of Bulgaria as a Part of a Large Study on Balkan Natural Gas Market: Statistical Analysis of Market Overview, Market Participants, Physical Infrastructure, Gas Demand and Supply, Gas Prices, Statistical Forecasting and Seasonal Adjustment.

## PUBLICATIONS

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### *Books (monographs)*

Nikolova Krasimira, Evgenia Tonkova, **Svetlana Todorova**, Tatyana Ivanova. Consumption and Economy Activity of Bulgaria on the Way of European Union, *Library Prof. Tzani Kalyandgiev*, Nauka & Ikonomika, Varna University of Economics, Bulgaria, 2007, pp 55-130.

### *Book Chapters*

Radilov Dimitar, **Svetlana Todorova**, and others. Collection with Assignments of Statistics for Economics, chapters: Statistical Analysis of Gross Domestic Product & Statistical Analysis of Demography and Labor Market, *Nauka & Ikonomika*, Varna University of Economics, **2003**, Bulgaria, pp. 29-53, pp. 80-109.

Radilov Dimitar, **Svetlana Todorova**, and others. Collection with Assignments of Introduction into Statistics, chapter: Regression Analyses, *Nauka & Ikonomika*, Varna University of Economics, **2015**, Bulgaria, pp. 59-69.

### *Journal Articles*

**Todorova Svetlana**, Marieta Stefanova. (2018) Risk Analysis of the External and Internal Environment According to ISO 9001:2015. *Izvestia Journal of the Union of Scientists – Varna, Economic Sciences Series*, Varna, Bulgaria, Volume 7, Issue 3, December 2018, pp 15-24.

<https://ideas.repec.org/a/vra/journl/v7y2018i3p15-24.html>

**Todorova Svetlana**. (2018) Globalization and Multinational Companies in Numbers. *Izvestia Journal of the Union of Scientists – Varna, Economic Sciences Series*, Varna, Bulgaria, Volume 7, Issue 2, November 2018, pp 175-183. <https://ideas.repec.org/a/vra/journl/v7y2018i2p175-183.html>

**Todorova Svetlana**, Vesela Veleva, Berkely W. Cue Jr., Harshrajsinh Thakor, Nitesh H Mehta, Krishna B Padia . (2018) Benchmarking Green Chemistry Adoption by the Indian Pharmaceutical Supply Chain. *Green Chemistry Letters and Reviews*, Taylor & Francis, USA, Volume 11, Issue 4, 10 October 2018, pp 439-456. <https://www.tandfonline.com/doi/full/10.1080/17518253.2018.1530802>

**Todorova Svetlana**, Vesela Veleva, Berkely W. Cue Jr. (2018) Benchmarking Green Chemistry Adoption by the Global Pharmaceutical Supply Chain. *ACS Sustainable Chemistry and Engineering*, USA, 2018, Volume 6, Issue 1, 28 November 2018, pp 2–14.

<http://pubs.acs.org/doi/abs/10.1021/acssuschemeng.7b02277>

**Todorova Svetlana**, Maria Markova. (2017) A model of skills and activities for modern leaders and managers in enabling managerial leadership process in organizations. *International Journal of Economics, Commerce and Management*, United Kingdom, Volume 5, Issue 12, December 2017, pp. 63-94. <http://ijecm.co.uk/volume-v-issue-12/>

**Todorova Svetlana**, Vesela Veleva, Gavin Bodkin. (2017) The need for better measurement and employee engagement to advance a circular economy: Lessons from Biogen's "Zero Waste". *Journal of Cleaner Production*, USA, Volume 154, 15 June 2017, pp. 517-529.

<https://www.sciencedirect.com/science/article/pii/S0959652617306315>

**Todorova Svetlana**, Vesela Veleva, Peter Lowitt, Neil Angus, Dona Neely. (2015) Understanding and Addressing Business Needs and Sustainability Challenges: Lessons from Devens Eco-Industrial Park. *Journal of Cleaner Production*, USA, Volume 87, 15 January 2015, pp. 375-384.

<https://www.sciencedirect.com/science/article/pii/S0959652614009445>

**Todorova Svetlana**, Hristina Dlagojcheva. Does Economic Growth Affect Pensions? Evidence from Bulgarian Economy. *Journal Экономика Социология и Право, Научно-информационный издательский центр и редакция журнала*, Moscow, Russia, No 11, 2012, pp.7-15.

**Todorova Svetlana**, Vesela Dimitrova. Foreign Direct Investment in Bulgaria: State of Affairs and Forecasting, *Journal Izvestia*, No 2, 2008, Varna, Bulgaria, pp. 85-93.

**Todorova Svetlana**. Statistical Methods of Studying the Household Consumption of Main Foods, *Journal Statistics*, No 3, 2007, Sofia, Bulgaria, pp. 84-94.

**Todorova Svetlana**, Vesela Dimitrova. Econometric Approach to Research the Long Term Equilibrium between GDP and FDI in the Republic of Bulgaria, *Journal Izvestia*, No 3, 2005, Varna, Bulgaria, pp. 55 - 70.

**Todorova Svetlana**. Co-integration and the Long-Term Consumption Function in the Republic of Bulgaria, *Journal Izvestia*, No 3, 2003, Varna, Bulgaria, pp. 60 -72.

**Todorova Svetlana**. Economic-Statistical Interpretation of the Inequality and Polarization of the Household Income, *Journal Izvestia*, No 2, 2002, Varna, Bulgaria, pp. 104-112.

**Todorova Svetlana**. Income Differentiation of the Population During the Transition to a Market Economy, *Journal Izvestia*, No 4, 1999, Varna, Bulgaria, pp. 49-57.

### ***Papers and Presentations***

**Todorova Svetlana**. Likelihood Function and Its Application, *International Scientific Conference: Statistics as a science, education, profession and activity*, Varna University of Economics, Varna, Bulgaria, October 24-25, 2013, pp. 121-125.

**Todorova Svetlana**. Poverty Research Based on a Data of the Households Budgets in Terms of Economic Growth and Crises, *Anniversary International Scientific Conference*, Varna University of Economics, Varna, Bulgaria, May 13-14, 2010, pp. 276-286.

**Todorova Svetlana**, Vesela Dimitrova. Practical Approach of Statistical Study of the Real Sector of the Economy, *International Scientific Conference: Statistics and the Challenges of Information Society in the XXI<sup>st</sup> Century*, Varna University of Economics, Bulgaria, 6-7 October, 2006, pp. 257-263.

**Todorova Svetlana**. Household Consumption in the Republic of Bulgaria and its Impact on the Economic Development in the Accession to the European Union, *Anniversary International Scientific Conference: European Prospective of National Economics*, Varna University of Economics, Bulgaria, 9-10 June, 2005, pp. 220-228.

**Todorova Svetlana.** Forecasting of the Household Consumptions in the Republic of Bulgaria based on SARIMA Models, *Anniversary International Scientific Conference of the Commodities Science Department*, Varna University of Economics, Bulgaria, 13-14 November, **2003**, pp. 110-117.

**Todorova Svetlana.** Short Term Consumption Function - Theory and Practice, *Scientific Conference of Junior Research Scholars*, Shcorpilovci, Bulgaria, 6 June, **2003**, pp. 137-150.

**Todorova Svetlana, Vesela Dimitrova.** Practical Approach of the Logit Model to Determine an Unemployment Rate in Bulgaria, *International Scientific Conference of Innovation and Transformation of Organized Markets in Bulgaria*, Varna University of Economics, Bulgaria, 23-25 October, **2002**, pp. 291-299.

**Todorova Svetlana, Lubomir Lubenov.** Macroeconomic Relations of the Household Consumption in Bulgaria, Tested by Granger Causality Test, *Scientific Conference of Junior Research Scholars*, Shcorpilovci, Bulgaria, 7 June, **2002**, pp. 140-144.

**Todorova, Svetlana, Radilov Dimitar.** Business Cycle in Current Account of the Balance of Payment in Bulgaria, *Anniversary International Scientific Conference: Economics and Development of the Society*, Varna University of Economics, Bulgaria, 8 June, **2000**, Vol. I, pp. 271-279.

**Todorova Svetlana, Lubomir Lubenov.** Macroeconomic Business Cycle of the Exchange Rate of Currency Based on Spectral Analysis. Problems and Practice, *Scientific Conference of Junior Research Scholars*, Shcorpilovci, Bulgaria, 4 June, **1999**, pp. 114-126.

**Todorova Svetlana, Lubomir Lubenov.** Seasonal Decomposition of the Consumption of Basic Foodstuffs in Bulgaria, *Scientific Conference of Junior Research Scholars*, Shcorpilovci, Bulgaria, 4 June, **1999**, pp. 131-137.

**Todorova Svetlana.** Statistical and Economic Interpretation of the Relationship among Income, Expenditure and Consumption of the Households, *Scientific Conference of Junior Research Scholars*, Shcorpilovci, Bulgaria, 5 June, **1998**, pp. 20-27.

**Todorova Svetlana.** Structural Changes in Household Consumption in Conditions of Inflation, *Scientific Conference of Junior Research Scholars*, Shcorpilovci, Bulgaria, 6 June, **1997**, pp. 104-110.

**Todorova Svetlana.** Statistical Researching of the Expenditure of the Population in the Period of Transition, *Scientific Conference of Junior Research Scholars*, Shcorpilovci, Bulgaria, 6 June, **1996**, pp. 89-97.

## SKILLS

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- **Computer skills:**
  - Statistics: **Statistica, SPSS, R, STATA, StatCrunch (MyMathLab)**
  - Econometrics: **Limdep, Eviews, PcGive**
  - Programming: **Pascal, C++, FORTRAN, DBase, FoxPro**
  - Presentations: **MS Power Point, Adobe Page Maker**
  - Office: **MS Word, MS Excel, MS Access, MS Office**
- **Languages:**
  - Native **Bulgarian** Speakers.
  - Fluent in **English & Russian**