

# Curriculum Vitae

Parvan Evtimov Parvanov

## Address

Faculty of Mathematics and Informatics  
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## Education

- **Ph.D. in Mathematics**, Sofia University St. Kliment Ohridski, Bulgaria, 2000  
*Thesis:* “Estimations of the Error of Shape Preserving Approximations”
- **M.Sc. in Mathematics**, Sofia University St. Kliment Ohridski, Bulgaria, 1992  
*Thesis:* “Bernstein type operator. An Estimation Of Best Monotone Spline Approximation With Averaged Moduli Of Smoothness.”

## Research Interests

Approximation theory, Numerical analysis, Splines, Weighted approximations

## Professional Experience

- **Associate Professor, Dean**, Faculty of Mathematics and Informatics, Sofia University St. Kliment Ohridski, Sofia, Bulgaria, 2017-present
- **Associate Professor, Vice-dean Bachelor Degree Programmes**, Faculty of Mathematics and Informatics, Sofia University St. Kliment Ohridski, Sofia, Bulgaria, 2013-2015
- **Associate Professor**, Faculty of Mathematics and Informatics, Sofia University St. Kliment Ohridski, Sofia, Bulgaria, 2011
- **Assistant Professor**, Faculty of Mathematics and Informatics, Sofia University St. Kliment Ohridski, Sofia, Bulgaria, 2001-2011
- **Assistant Professor**, Department of Mathematics, University of Architecture, Civil Engineering and Geodesy, Sofia, Bulgaria, 2000-2001
- **Assistant Professor**, Department of Mathematics and Informatics, University of Transport, Sofia, Bulgaria, 1996-2000

## Teaching Experience

- **Associate Professor**, Faculty of Mathematics and Informatics, Sofia University St. Kliment Ohridski, Sofia, Bulgaria, 2011-present  
*Courses:* Univariate Calculus, Multivariate Calculus, Special Course (Additional questions on differential and integral calculus)
- **Assistant Professor**, Department of Mathematics, University of Architecture, Civil Engineering and Geodesy, Sofia, Bulgaria, 2000-2001, 1996-2000  
*Courses:* Linear Algebra and Analytic Geometry, Univariate Calculus, Multivariate Calculus, Applied Mathematics (Numerical Methods, Laplace Transform)

- **Assistant Professor**, Department of Mathematics and Informatics, University of Transport, Sofia, Bulgaria, 1996-2000  
*Courses:* Linear Algebra and Analytic Geometry, Univariate Calculus, Multivariate Calculus, Special Course (elements of Probabilities, Complex Analysis, Differential Equations, Fourier Series), Applied Mathematics (Numerical Methods, Laplace Transform), Financial Mathematics

## List of Publications

1. Parvan E. Parvanov, Ivan Gadjev, Weighted Approximation of Functions by the Szász–Mirakjan–Kantorovich Operator, *Results in Mathematics*, vol:76, issue:158, 2021.
2. Parvan E. Parvanov, Weighted Approximation of Functions in  $L_p$ -norm by Baskakov-Kantorovich Operator, *Analysis Mathematica*, vol:46, issue:4, 2020, pages:821-842.
3. Ivan Gadjev, Parvan E. Parvanov, Rumen Uluchev, Weighted approximation by Kantorovich type modification of Meyer-König and Zeller operator, *Annual of Sofia University "St. Kliment Ohridski"*, vol:105, 2018, pages:75-95,.
4. Ivan Gadjev, Parvan E. Parvanov, Weighted Approximation in Uniform Norm by Meyer-König and Zeller Operators, *Annual of Sofia University "St. Kliment Ohridski"*, Faculty of Mathematics and Informatics, vol:104, 2017, pages:77-87.
5. Ivan Gadjev, Parvan E. Parvanov, Weighted Approximation of functions in  $L_\infty[0, \infty)$ , *Mediterranean Journal of Mathematics*, vol:14, issue:6, 2017, pages:220-230.
6. *P. E. Parvanov*, Weighted Approximation by the Goodman–Sharma Type Operators, *Mathematics and Education in Mathematics*, 2012 Proceedings of the Forty First Spring Conference of the Union of Bulgarian Mathematicians Borovetz, April 9–12, 2012, 2012, pages:93-100
7. Borislav R. Draganov, Parvan E. Parvanov, On estimating the rate of best trigonometric approximation by a modulus of smoothness, *Acta Mathematica Hungarica*, vol:131, issue:4, 2011, pages:360-379.
8. *Parvan E. Parvanov*, Weighted Approximation By A Class Of Bernstein-type Operators, *Mathematica Balcanica (new series)*, vol:Vol.25, issue:Fasc.1-2, 2011, pages:31-38.
9. Kamen G. Ivanov, Parvan E. Parvanov, Weighted Approximation By Baskakov-type Operators, *Acta Mathematica Hungarica*, vol:Vol.133, issue:Numbers 1-2, 2011, pages:33-57.
10. *Kamen G. Ivanov, Parvan E. Parvanov*, Weighted Approximation By The Goodman-Sharma Operators, *East Journal Of Approximation*, vol:Vol.15, issue:Number 4, 2009, pages:473-486.
11. *I. A. Parvanova, P. E. Parvanov*, Exact Constants In Estimation Of The Error Of The Quadrature Formulae Of Simpson With Averaged Moduli Of Smoothness, *Mathematica Balcanica(new series)*, Vol.15, issue:Fasc.3-4, 2001, pages:303-316.
12. *P. E. Parvanov*, An Estimation Of Best Monotone Spline Approximation With Averaged Moduli Of Smoothness, *Mathematica Balcanica(new series)*, vol:Vol.13, issue:Fasc.3-4, 1999, pages:421-424.
13. *P. E. Parvanov*, Characterization Of Best Algebraic Approximation From Below And From Above In The Multivariate Case, *East Journal Of Approximation*, vol: Vol.5, issue:Number 2, 1999, pages:125-149.
14. *P. E. Parvanov*, Characterization Of Best Multivariate Approximation From Below And From Above In Terms Of K-functional, *Mathematica Balcanica(new series)*, vol:Vol.11, issue:Fasc.1-2, 1997, pages:37-50.
15. *P. E. Parvanov, B. D. Popov*, The Limit Case Of Bernstein's Operators With Jacobi Weights, *Mathematica Balcanica(new series)*, vol:Vol. 8, issue:Fasc.2-3, 1994, pages:165-177.

## Presentations and Conference Contributions

1. Weighted approximation by Kantorovich type modification of Meyer-König and Zeller operator (*with I. Gadjev and R. Uluchev*) FMI Spring Scientific Session March 16-16, 2019, FMI, Sofia (BULGARIA)
2. Weighted Approximation By A Class Of Baskakov-type Operators, CTF-2013, Sozopol,
3. Weighted Approximation by Meyer-König and Zeller-Type Operators, (*with Kamen G. Ivanov*) CTF-2010, Sozopol, Bulgaria ( dedicated to the memory of Borislav Bojanov),.
4. Weighted Approximation by the Goodman–Sharma Type Operators, Mathematics and Education in Mathematics, Forty First Spring Conference of the Union of Bulgarian Mathematicians Borovetz, April 9–12, 2012

### **Scientific Projects**

1. Exploration of analytical concepts used in approximations, differential equations, and optimization, Grant Nr.239/2016 of the National Science Fund of the Sofia University
2. Exploration of analytical concepts used in approximations, differential equations, and optimization, Grant Nr.146/2015 of the National Science Fund of the Sofia University
3. Abstract analysis in Banach spaces, Grant Nr088/2014 of the National Science Fund of the Sofia University
4. Abstract analysis in Banach spaces, Grant Nr184/2013 of the National Science Fund of the Sofia University
5. Abstract analysis in Banach spaces, Grant Nr133/2012 of the National Science Fund of the Sofia University
6. Abstract analysis in Banach spaces, Grant Nr150/2011 of the National Science Fund of the Sofia University
7. Abstract analysis in Banach spaces, Grant Nr179/2010 of the National Science Fund of the Sofia University
8. Modern Methods in Approximation Theory, 2010-2013  
Grant DDVU 02/30, supported by the Bulgarian National Science Fund, Ministry of Education and Science.