

# Curriculum Vitae

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Professor of Mathematics,  
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**Spoken languages:** English, Russian.

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## 1 *Teaching and research*

**Education:**

**Doctor of mathematical sciences** University of Sofia 'St. Kliment Ohridski', 2006, Thesis "Connections with skew-symmetric torsion and special holonomy"

**Ph.D.** University of Sofia 'St. Kliment Ohridski', 1987, Ph.D.Thesis: "Linear connections on a smooth manifold with structures ", Ph.D. Advisor: Professor George Ganchev.

**M.S.** Sofia University 'St. Kliment Ohridski', 1982.

**B.S.** Sofia University 'St. Kliment Ohridski', 1980.

**Research Interests:**

Riemannian and complex differential geometry, Hermitian surfaces and holomorphic vector bundles, Almost Kähler 4-manifolds, Twistor spaces, Almost Hermitian geometry, Almost contact manifolds, Differential Geometry of manifolds with Exceptional holonomy, parallel spinors and Dirac operators, Harmonic maps, Integrable Hamiltonian systems, Stäckel systems and separation of variables, String theory and related geometries, connections with exceptional holonomy, Calabi-Yau type theorem on compact complex non-Kähler 6-manifold, Quaternionic geometry and quaternionic contact spaces, Quaternionic contact Yamabe problems, extremals and the best constant in the Folland-Stein inequality, Bochner formulas and inequalities for the first eigenvalue of the sub-Laplacian in sub-Riemannian spaces, the limiting cases, sub-Riemannian Mayers-type results.

**Teaching Experience:**

Professor of Mathematics, Department of Geometry, University of Sofia 'St.Kl.Ohridski', Bulgaria

- undergraduate courses:

- Linear Algebra, Analytic Geometry, Differential Geometry;

- graduate courses for Master degree students:

- Bochner technics and vanishing theorems;
- Ricci flow and Li-Yau inequality.

Supervised 17 Masters Dissertations.

**Supervised five Ph.D. Thesis:**

1. Irina Petrova, "Riemannian manifolds with pointwise constant curvature eigenvalues 1997.
2. Bogdan Alexandrov "Dirac operators on hermitian manifolds and vanishing theorems 1999.
3. Ivan Minchev "Differential geometry of metric connections with torsion 2006.
4. Simeon Zamkovoy "Differential geometry of pseudo Riemannian manifold with additional structures 2006.
5. Alexander Petkov, "Riemannian and sub-Riemannian manifolds with additional structures 2014

**Supervised two Post-docs:**

- Dr. Elias Zafiris, Imperial College London, 2003 - 2004.
- Dr. Milan Zlatanovic, University of Nis, Serbia, 2014-3 months, 2015 - 1 month, 2017-3 months, 2018-2 months.

**Main Grants**

1. Contractor on the Sofia/Bucarest part of the EU network Contract No. EDGE HPRN-2000-00101EDGE under the RTN program (2000-2004).
2. Senior Associate to the Abdus Salam ICTP, Trieste, 2003-2008.
3. The Yamabe problem on the Quaternionic sphere - Contract with the National Academies USA, 2005-2007
4. Max-Plank-Institut of Mathematik, Bonn, 1.02.2007-31.07.2007.
5. Visiting Professor at the University of Pennsylvania, Philadelphia - 3.09.2009-17.12.2009.
6. Visiting Professor at the University of Pennsylvania, Philadelphia - 11.01.2015-23.05.2015.

**Prizes and Awards**

The Big Prize for scientific work of the Sofia University "St.Kl.Ohridski 2018.

**Editorships**

- Annals of Global Analysis and Geometry (2001-)
- <http://www.springer.com/math/analysis/journal/10455>

**2** *Positions held*

Professor of Mathematics, Department of Geometry, University of Sofia 'St.Kl.Ohridski' - permanent position

Professor of Mathematics, Institute of Mathematics and Informatics, Bulgarian Academy of Sciences - year by year temporary position