

Personal Data

- **Full name:** VÎLCU GABRIEL-EDUARD
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- **Citizenship:** Romanian
- **Current affiliation and mailing addresses:** Petroleum-Gas University of Ploiești,
Department of Cybernetics, Economic Informatics, Finance and Accountancy, Bd. Bucuresti, Nr.
39, Ploiești 100680, Romania
- **E-mail:** gvilcu@upg-ploiesti.ro
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Educational Background

- **Habilitation:** University Politehnica of Bucharest, Romania

Date of defense: 14 July 2021

Type of Diploma Awarded: Habilitation certificate

Thesis: *Geometric structures on manifolds. Submersions, submanifolds and applications,*
- **Doctoral Degree:** Faculty of Mathematics, University of Bucharest, Romania

Date of Admission: October 2000, Date of Completion: September 2006

Type of Diploma Awarded: Ph.D.

Thesis: *Contributions to the study of quaternionic manifolds*

Supervisor: Prof. dr. Stere Ianuș, University of Bucharest, Romania
- **Master Degree:** Faculty of Mathematics, University of Bucharest, Romania

Date of Admission: September 1997, Date of Completion: June 1999

Type of Diploma Awarded: M.S. Thesis

- **Bachelor's Degree:** Faculty of Mathematics, University of Bucharest, Romania

Date of Admission: 1993, Date of Completion: 1997

Type of Diploma Awarded: License Examination

- **Bachelor's Degree:** Faculty of Economic Cybernetics, Statistics and Informatics, Bucharest Academy of Economic Studies, Romania

Date of Admission: 1996, Date of Completion: 2001

Type of Diploma Awarded: License Examination

Professional Experience

- April 1, 2014 – Present: Full Professor - Petroleum-Gas University of Ploiești, Romania.
- October 1, 2008 - Present: Senior Researcher - University of Bucharest, Research Center in Geometry, Topology and Algebra, Romania.
- March 1, 2008 – March 1, 2014: Associate Professor - Petroleum-Gas University of Ploiești, Romania.
- March 1, 2004 - February 29, 2008: Lecturer - Petroleum-Gas University of Ploiești, Romania.
- March 1, 2001 - February 29, 2004: Assistant Professor - Petroleum-Gas University of Ploiești, Romania.
- October 1, 1999 - February 28, 2001: Research Assistant - Petroleum-Gas University of Ploiești, Romania.

Research Interests

- Mathematical Analysis
- Riemannian Geometry
- Harmonic Maps
- Nonlinear PDEs

- Computational Geometry
- Mathematical Economics

Teaching

- Courses and tutorials of: Mathematical economics, Financial and actuarial mathematics, Mathematical analysis, Operations research, Decision theory, Stochastic Processes, Linear algebra, Analytical geometry, Differential geometry, Differential equations, Economic Cybernetics, Computational geometry, Mathematical statistics

Mathematical Publications

- 85 research papers. See: <https://gabrieleduardvilcu.wordpress.com/publications/>
- Ph.D. Thesis: *Contributions to the study of quaternionic manifolds*, published in: *Differential Geometry – Dynamical Systems Monographs 9*, Geometry Balkan Press, 2007. (ISSN 1454-511X)
- Chapter: *Chen-Ricci inequalities for Riemannian maps and their applications*, in: Differential Geometry and Global Analysis: In Honor of Tadashi Nagano, Editors: Bang-Yen Chen, Nicholas D. Brubaker, Takashi Sakai, Bogdan D. Suceavă, Makiko Sumi Tanaka, Hiroshi Tamaru, Mihaela B. Vajiac, Contemporary Mathematics, vol. 777, American Mathematical Society, 2022, 137-152.
- Chapter: *Curvature inequalities for slant submanifolds in pointwise Kenmotsu space forms*, in: Contact geometry of slant submanifolds. Editors: B.-Y. Chen, M.H. Shahid, F.R. Al-Solamy, Chapter 2, Springer, 2022, 21pp. (ISBN 978-981-16-0017-3)
- Chapter: *Paraquaternionic CR-submanifolds*, in: Geometry of Cauchy-Riemann Submanifolds, Editors: S. Dragomir, M.H. Shahid, F.R. Al-Solamy, Springer, 2016, Chapter 13, 361-390. (ISBN 978-981-10-0916-7)
- Editor (joint with M.H. Shahid, M. Ashraf, F. Al-Solamy and Y. Kimura) of: Differential Geometry, Algebra, and Analysis, Springer Proceedings in Mathematics & Statistics book series (PROMS, volume 327), 2020. (ISBN 978-981-15-5455-1)

Research Projects:

A. as a project manager:

1. Foliations on CR-submanifolds (GAR 181/2007-2008; Financed by the *Romanian Academy*; <https://foliatiipecrsubvarietati.wordpress.com>)

B. as a member in a research team:

2. Hypersurfaces of a Sasakian manifold: RG-1440-142/2020; Financed by the *Deanship of Scientific Research King Saud University, Saudi Arabia*; <https://journaloffinequalitiesandapplications.springeropen.com/articles/10.1186/s13660-021-02584-0>

3. Static spaces: IFKSURG-1440-042/2021, Financed by the *Deputyship for Research and Innovation, "Ministry of Education" in Saudi Arabia*; <https://www.sciencedirect.com/science/article/pii/S2211379721006288>

4. Geometry and topology of locally conformally Kaehler manifolds: PNIII 30/2021-2023; Financed by the *Romanian Ministry of Research and Innovation*, CNCS – UEFISCDI; <http://gta.math.unibuc.ro/pages/gvilcu/GTLCK/index.html>

5. Topics in locally conformally Kaehler geometry: PNIII 8/2017-2019; Financed by the *Romanian Ministry of Research and Innovation*, CNCS – UEFISCDI; <http://gta.math.unibuc.ro/pages/gvilcu/LCK/index.html>

6. Locally conformally Kaehler geometry and related structures: PNII, 2805/2012-2016; Financed by *UEFISCDI - Romanian Executive Agency for Higher Education, Research, Development and Innovation*; <http://gta.math.unibuc.ro/vuli/eng.html>

7. Submersions and submanifolds: PNII, 525/2009-2011; Financed by *UEFISCDI - Romanian Executive Agency for Higher Education, Research, Development and Innovation*; <http://gta.math.unibuc.ro/grants/PN2IDEI525.htm>

8. Contact, complex and quaternionic geometry on Riemannian and conformal manifolds: CEEEX 2250/2006-2008; Financed by *UEFISCDI - Romanian Executive Agency for Higher Education, Research, Development and Innovation*; http://old.fmi.unibuc.ro/ro/proiect_cercetare_CEEEX06_modul_1_gta/

Prizes:

42 research articles were awarded by UEFISCDI under the program P1 - Development of the national R&D system, Subprogram 1.1 - Human resources, PRECISI funding instrument (Award of research results - articles); <https://uefiscdi.gov.ro/premierea-rezultatelor-cercetarii-articole>

Member of editorial board:

1. Mathematics (SCIE)
2. Tamkang Journal of Mathematics (ESCI)
3. International Journal of Maps in Mathematics
4. Moroccan Journal of Algebra and Geometry with Applications

Scientific Referee for journals indexed in Web of Science:

Acta et Commentationes Universitatis Tartuens de Mathematica, Acta Mathematica Universitatis Comenianae, Acta Mathematica Vietnamica, Advances in Geometry, AIMS Mathematics, Algorithms, Analele Stiintifice ale Universitatii Ovidius Constanta - Seria Matematica, Analysis and Mathematical Physics, Annales Polonici Mathematici, Applications and Applied Mathematics: An International Journal (AAM), Applied Mathematics and Computation, Axioms, Beiträge zur Algebra und Geometrie/Contributions to Algebra and Geometry, Bulletin Mathématique de la Société des Sciences Mathématiques de Roumanie, Bulletin of the Korean Mathematical Society, Bulletin of the Malaysian Mathematical Sciences Society, Communications in Statistics - Simulation and Computation, Communications of the Korean Mathematical Society, Entropy, Filomat, Hacettepe Journal of Mathematics and Statistics, Honam Journal of Mathematics, Houston Journal of Mathematics, IMA Journal of Management Mathematics, International Electronic Journal of Geometry, International Journal of Geometric Methods in Modern Physics, Iranian Journal of Science and Technology, Transactions A: Science, Journal of Applied Analysis, Journal of Industrial & Management Optimization, Journal of Nonlinear Sciences and Applications, Journal of Dynamical Systems and Geometric Theories, Journal of the Korean Mathematical Society, Journal of Geometric Analysis, Journal of Geometry, Journal of Geometry and Physics, Journal of Inequalities and Applications, Journal of Mathematical Analysis and Applications, Kragujevac Journal of Mathematics, Kuwait Journal of Science, Matematički Vesnik, Mathematical Reports, Mathematica Slovaca, Mathematical Problems in Engineering, Mathematics, Mathematische Nachrichten, Mediterranean Journal of Mathematics, Miskolc Mathematical Notes, Note di Matematica, Proceedings of Edinburgh Mathematical Society, Publicationes Mathematicae Debrecen, Quaestiones Mathematicae, RACSAM - Revista de la Real Academia de Ciencias

Exactas, Fisicas y Naturales. Serie A. Matematicas, Rendiconti del Circolo Matematico di Palermo, Revista de la Unión Matemática Argentina, Revue Roumaine des Mathematiques Pures et Appliquees, Sensors, Southeast Asian Bulletin of Mathematics, Symmetry, Taiwanese Journal of Mathematics, Tamkang Journal of Mathematics, Thai Journal of Mathematics, The Journal of Geometric Analysis, Turkish Journal of Mathematics

Scientometry:

H-index (Web of Science): 17

Nr. of citations (without self, Web of Science): 553

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Date: 20.05.2022