

# Biographical Sketch

## Ramaz Botchorishvili

### Personal information

Prof. Dr. Ramaz Botchorishvili (male, born May 16, 1961)  
Department of Numerical Analysis and Computational Technologies, Faculty of Exact and Natural Sciences,  
Ivane Javakhishvili Tbilisi State University(TSU), University Street 13, 0186 Tbilisi  
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### Academic Training

1996, Habilitation - Doctor of Sciences, Ivane Javakhishvili Tbilisi State University(TSU)  
1989, Promotion - Candidate of Sciences, Muskhelishvili Institute of Computational Mathematics  
of the Georgian Academy of Sciences  
1983, Diploma in Applied Mathematics, TSU

### Academic Career

2009– Professor, Head of Department of Numerical Analysis and Computational Technologies,TSU  
2006-2009 Associate professor, Faculty of Exact and Natural Sciences, TSU  
1989-2006 Engineer-programmer, Dozent, Professor, Faculty of Mechanics and Mathematics, TSU  
1983-2001 Engineer-programmer, Junior Researcher, Researcher, Head of Division,  
Vekua Institute of Applied Mathematics, TSU

### Additional information

1999 - 2000, 11 months, NATO Fellowship at INRIA, France  
2001, 6 months, Visiting Professor, Laboratory of Jacques-Luis Lions,  
University of Pierre and Marie Curie, France  
2002 - 2005, 3 years, Senior Scientist, Fraunhofer Institute for Algorithms  
and Scientific Computing, Germany  
2013-2015,2017, 5 months Guest Scientist, Research Center Julich, Germany  
2006-2008, 2010-2013, 10 months, Head of NAEC Examination Center at TSU,  
National Examinations Center, Georgia

### Honours and Services

2016, Javakhishvili Medal, TSU  
2009, Best paper award, F-&-B 2009, WSEAS  
1997, Fellowship of the President of Georgia  
1994, Best paper award, Georgian Mathematical Union  
2005, Dean, Faculty of Mechanics and Mathematics, TSU  
2006-2016, Dean, Faculty of Exact and Natural Sciences, TSU  
2006 –, Coordinator of Bachelor Program in Mathematics, TSU  
2006 –, Co-head of Master Program in Applied Mathematics, TSU  
2016 - 2017, Advisor to Dean in SDSU Georgia related affairs, TSU  
2018 – Co-head, International Doctoral Program in Mathematics, TSU

### Doctoral students (within the last five years)

Tamar Janelidze 2015–

### Third-Party funding (within last five years)

- 2017–2022, RNSF & VW Foundation Caucasus/Middle Asia Program: International doctoral programme in mathematics at Tbilisi State University, Ref:93581, TSU team leader.
- 2016–2017, VW Foundation Caucasus/Middle Asia Program: International Mathematics Doctoral Program at Tbilisi State University, Ref:92148, member of TSU team.
- 2016, Seasonal school "Chemical and mathematical aspects of environmental monitoring, RNSF, SS 16-B-10, lecturer and co-organizer of mathematical aspects section.
- 2015–2016, Seasonal school "Research Methods of Micro- and Nanostructures", Rustaveli National Science Foundation (RNSF)SS 15-2-012, lecturer.
- 20013-2017, Developing tools for lifelong learning in Transcaucasus region: e-Learning (ARMAZEG, 544605-TEMPUS-1-2013-1-BE-TEMPUS-JPHES); TSU team leader.
- 2014-2017, Georgia - SDSU: Degree Accreditation and Institutional Support Initiative for Science, Technology, Engineering, and Mathematics, MCA Georgia; member of TSU team.

### Five selected publications

- [rb1] Hendrik Elbern, Jorg Schvinger, and Ramaz Botchorishvili, *Chemical state estimation for the middle atmosphere*, Journal of Geophysical Research **115** (2010), 1–23.
- [rb2] Ramaz Botchorishvili, *Finite volume multischeme for hyperbolic conservation laws*, FANDB'09 Proceedings of the 2nd WSEAS international conference on Finite differences, finite elements, finite volumes, boundary elements, 2009, pp. 200–204.
- [rb3] Ramaz Botchorishvili and Olivier Pironneau, *Finite volume schemes with equilibrium type discretization of source terms for scalar conservation laws in several space dimensions*, J.Comput.Phys. **187** (2003), 391–427.
- [rb4] Ramaz Botchorishvili, Benoit Perthame, and Alexis Vasseur, *Equilibrium schemes for scalar conservation laws with stiff sources*, Math. Comput. **72** (2003), 131–157.
- [rb5] Ramaz Botchorishvili, *Implicit kinetic schemes for scalar conservation laws*, Numer. Meth. Part. Diff.Equat. **18** (2002), no. 1, 26–43.