

# David Natroshvili

## Personal Information

Name Surname: **David Natroshvili**  
Date of Birth: 1948-07-03  
Sex: Male  
Citizenship: Georgian  
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## Education

Academic Degree: Ph.D./Equivalent to Ph.D  
Educational Institution: A. Razmadze Tbilisi Mathematical Institute of Georgian Academy of Sciences  
Qualification: Doctor of Physical and Mathematical Sciences  
Date of grant: 1986-07-27  
Country: Georgia

Academic Degree: Ph.D./Equivalent to Ph.D  
Educational Institution: Tbilisi State University  
Qualification: Candidate of Physical and Mathematical Sciences  
Date of grant: 1973-06-01  
Country: Georgia

Academic Degree: Master's/Equivalent to Master's  
Educational Institution: Tbilisi State University  
Qualification: Mathematician  
Date of grant: 1970-07-01  
Country: Georgia

## Qualification Raising

### Trainings

Organization: San Diego State University  
Subject: Canvas - elearning platform  
Country: USA  
Date: 2021-06-01

## Projects & Grants

Name of the project/grant: Application of the potential method to mixed and crack type dynamical problems for homogeneous, inhomogeneous and composite elastic structures, FR-23-267  
Position: Principal Investigator  
Donor: Grant of the Shota Rustaveli National Science Foundation  
Leader Organization: Georgian Technical University  
Start | End Date: 2023-12-15 - 2026-12-15

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Name of the project/grant: Mathematical analysis of dynamical mixed transmission problems of thermo-electro-magneto elasticity theory and related interaction problems of different dimensional fields, FR-18-126  
Position: Principal Investigator  
Donor: Grant of the Shota Rustaveli National Science Foundation  
Leader Organization: Georgian Technical University  
Start | End Date: 2019-02-19 - 2021-10-25

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Name of the project/grant: Mathematical analysis of Localized Boundary-Domain Integral Equations for Nonlinear PDEs, EPSRC: EP/M013 545/1  
Position: Investigator  
Donor: EPSRC - Engineering and Physical Sciences Research Council, UK  
Leader Organization: Brunel University London  
Start | End Date: 2015-06-01 - 2018-05-31

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Name of the project/grant: Investigation of dynamical mathematical models of elastic multi-component structures with regard to fully coupled thermo-mechanical and electro-magnetic fields, FR/286/5-101/13  
Position: Principal Investigator  
Donor: Grant of the Shota Rustaveli National Science Foundation  
Leader Organization: Georgian Technical University  
Start | End Date: 2014-02-20 - 2017-02-20

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Name of the project/grant: Mathematical analysis of Localised Boundary-Domain Integral Equations for Variable-Coefficient Boundary Value Problems, EPSRC: EP/H020497/1  
Position: Investigator  
Donor: EPSRC - Engineering and Physical Sciences Research Council, UK  
Leader Organization: Brunel University London  
Start | End Date: 2010-04-01 - 2013-04-01

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Name of the project/grant: Non-classical interaction problems for different dimensional physical fields in composed elastic solids , GNSF/ST07/3-170  
Position: Principal Investigator  
Donor: Grants of the Georgian National Science Foundation  
Leader Organization: Georgian Technical University  
Start | End Date: 2008-01-10 - 2010-12-10

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Name of the project/grant: Partial differential equations on hypersurfaces: Equations of shell and Maxwell system GNSF/ST07/3-175  
Position: Investigator  
Donor: Grant of the Shota Rustaveli National Science Foundation  
Leader Organization: Georgian Technical University  
Start | End Date: 2008-01-10 - 2010-12-10

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Name of the project/grant: Non-Classical Problems of Fluid-Elastic Cusped Plate (Beam) Interaction, GEP1-3339-TB-06  
Position: Investigator  
Donor: The U.S. Civilian Research and Development Foundation  
Leader Organization: Delaware University, USA  
Start | End Date: 2007-05-01 - 2009-05-01

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Name of the project/grant: Boundary-Domain Integral Equations: Formulation, Analysis, Localization, 2005/R4-JP  
Position: Investigator  
Donor: The Royal Society of UK  
Leader Organization: Glasgow Caledonian University, Brunel University London  
Start | End Date: 2006-05-01 - 2009-05-01

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Name of the project/grant: Boundary and contact problems of elasticity theory for generalized models, GNSF/ST06/3-001  
Position: Principal Investigator  
Donor: Grants of the Georgian National Science Foundation  
Leader Organization: Georgian Technical University  
Start | End Date: 2006-01-03 - 2007-12-28

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Name of the project/grant: Mathematical problems of the theory of elasticity, GNSF/1.01.78  
Position: Principal Investigator  
Donor: Grants of the Georgian National Science Foundation  
Leader Organization: Georgian Technical University

Start | End Date: 2005-01-03 - 2005-12-30

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Name of the project/grant: Piezoelectricity in composites - investigation on piezoelectric stack actuators, 436 GEO 113/8/0-1  
Position: Principal Investigator  
Donor: DFG Germany  
Leader Organization: University of Stuttgart, Germany  
Start | End Date: 2004-01-10 - 2006-12-29

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Name of the project/grant: Theory of cusped plates, NATO PST.CLG 976 426/5437  
Position: Investigator  
Donor: NATO  
Leader Organization: University of Stuttgart, Germany  
Start | End Date: 2001-01-10 - 2002-12-30

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Name of the project/grant: Boundary Variational Inequalities in Elasticity Theory, FSB 404  
Position: Investigator  
Donor: DFG Germany  
Leader Organization: University of Stuttgart, Germany  
Start | End Date: 2001-01-10 - 2002-12-27

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Name of the project/grant: Boundary Integral Equations Method in Interface crack problems, 436 GEO 113/2/0  
Position: Investigator  
Donor: DFG Germany  
Leader Organization: University of Stuttgart, Technical University of Chemnitz , Germany  
Start | End Date: 1999-01-10 - 2000-12-29

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Name of the project/grant: Crack Type Problems in Anisotropic Thermoelasticity, 436 GEO 17/2/97  
Position: Investigator  
Donor: DFG Germany  
Leader Organization: Technical University of Chemnitz , Germany  
Start | End Date: 1997-01-10 - 1998-12-25

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Name of the project/grant: Crack Type Problems in Anisotropic Elasticity, 436 GEO 17/4/96  
Position: Investigator  
Donor: DFG Germany  
Leader Organization: Technical University of Chemnitz , Germany  
Start | End Date: 1996-01-03 - 1996-12-30

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Name of the project/grant: Transmission Problems in Anisotropic Elasticity, 436 GEO 17/2/95  
Position: Investigator  
Donor: DFG Germany  
Leader Organization: Technical University of Chemnitz , Germany  
Start | End Date: 1995-01-10 - 1995-12-29

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Name of the project/grant: Boundary Integral Equations Method: Models of Elasticity, We-659/16-3  
Position: Investigator  
Donor: DFG Germany  
Leader Organization: University of Stuttgart, Germany  
Start | End Date: 1995-01-03 - 1995-12-29

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Name of the project/grant: Pseudo-differential equations on bounded manifolds and their applications, MXG200  
Position: Investigator  
Donor: ISF - USA  
Leader Organization: Soros Foundation  
Start | End Date: 1994-01-10 - 1997-12-30

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Name of the project/grant: Boundary Element Methods, 436 GEO 113/2/0  
Position: Investigator  
Donor: DFG Germany  
Leader Organization: University of Stuttgart, Germany  
Start | End Date: 1993-01-11 - 1998-12-30

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Name of the project/grant: Boundary Value Problems for Anisotropic Bodies, Je 166/1-2  
Position: Investigator  
Donor: DFG Germany  
Leader Organization: Technical University of Chemnitz , Germany  
Start | End Date: 1993-01-04 - 1993-12-30

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## Scientific Productivity

### Scopus

Cited Index: 906

H Index: 17

### Web of science

Cited Index: 704

H Index: 15

### Google scholar

Cited Index: 2203

## Conference, Symposium, Award

- 2013-06-21 - The Order of Honor (Georgia)
- 1998-09-11 - I.Javakhishvili Order of Tbilisi State University
- 2019-07-29 - ISAAC2019, 12th International ISAAC Congress, July 29 - August 02, 2019, University of Aveiro, Portugal
- 2019-07-22 - IWOTA2019, the 30th International Workshop of Operator Theory and its Applications, Lisbon, Portugal, July 22-26, 2019.
- 2019-04-23 - XXXIII Enlarged Sessions of the Seminar of Ilia Vekua Institute of Applied Mathematics (VIAM) of Ivane Javakhisvili Tbilisi State University (TSU), April 23-25, 2019 (Member of the Scientific Committee)
- 2018-10-11 - IX Annual International Conference of the Georgian Mechanical Union, 11-13 October, 2018, Kutaisi, Georgia (Member of the Scientific Committee).
- 2018-09-19 - Third International Conference “Modern Problems in Applied Mathematics”, 19-21 September, 2018, Tbilisi, Georgia, (Member of the Scientific Committee).
- 2018-09-03 - 9th Conference of Georgian Mathematical Union, 3-7 September, 2018, Batumi, Georgia, (Member of the Scientific Committee).
- 2018-08-01 - ICM 2018 - International Congress of Mathematicians, August 1-9, 2018, Rio de Janeiro, Brazil.
- 2017-12-06 - 3rd International Conference on Applications of Mathematics and Informatics in Natural Sciences and Engineering, VIAM TSU, Tbilisi, 06 - 09 December, 2017 (Chair of program Committee)
- 2017-06-01 - Mini-courses in Mathematical Analysis 2017, University of Padua, Italy, 1 June - 30 June, 2017
- 2017-08-14 - ISAAC Congress - ISAAC2017, Vaxjo, Sweden, 14-18 August, 2017
- 2017-04-19 - XXXI International Enlarged Sessions of the Seminar of Ilia Vekua Institute of Applied Mathematics (VIAM) of Ivane Javakhisvili Tbilisi State University (TSU) Dedicated to the 110th Birthday Anniversary of Academician Ilia Vekua, Tbilisi, Georgia, April 1
- 2016-07-25 - 14th International Conference on Integral Methods in Science and Engineering (IMSE 2016), 25-29 July, 2016, University of Padova, Padova, Italy (Member of the Scientific Committee)
- 2016-06-13 - MAFELAP 2016, Conference on Mathematics of Finite Elements and Applications, 13-17 June, 2016, Brunel University, London, UK.
- 2015-09-30 - International conference: VI Annual Meeting of the Georgian Mechanical Union, 30.09-4.10 , 2015, Tbilisi, Georgia (Member of the Scientific Committee)
- 2015-07-20 - The 12-th International Conference on Mathematical and Numerical Aspects of Wave Propagation 2015, 20-24 July, Karlsruhe, Germany
- 2015-07-06 - International Workshop on Operator Theory and Applications, IWOTA 2015, 2015, 6-10 July, Tbilisi, Georgia
- 2015-05-18 - VI International Conference on Coupled Problems in Science and Engineering, COUPED PROBLEMS 2015, May 18-20, 2015, Venice, Italy
- 2014-10-08 - International conference: V Annual Meeting of the Georgian Mechanical Union, 8-10 October, 2014, Tbilisi, Georgia (Member of the Scientific Committee)
- 2014-09-05 - International conference: First Caucasian Mathematics Conference, CMC I, 5-6

September, 2014, Tbilisi, Georgia

- 2014-09-21 - 10th International Workshop Direct and Inverse Problems on Piezoelectricity, September 21-24, 2014, Vienna, Austria.
- 2014-08-13 - ICM 2014 - International Congress of Mathematicians, August 13-21, 2014, Seoul, South Korea.
- 2014-07-21 - The 13th International Conference on Integral Methods in Science and Engineering, IMSE-2104, 21-25 July, 2014, Karlsruhe Institute of Technology, Karlsruhe, Germany (Member of the Scientific Committee)
- 2013-11-08 - IV Annual Meeting of the Georgian Mechanical Union, 8-10 November, 2013, Kutaisi, Georgia. (Member of the Scientific Committee, Plenary speaker). IV Annual Meeting of the Georgian Mechanical Union, 8-10 November, 2013, Kutaisi, Georgia. (Member of the Scientific Committee)
- 2013-09-04 - Second International Conference: MODERN PROBLEMS IN APPLIED MATHEMATICS, Dedicated to the 95th Anniversary of the I. Javakhishvili Tbilisi State University (TSU) & 45th Anniversary of the I. Vekua Institute of Applied Mathematics (VIAM TSU), Tbilisi, Georgia
- 2013-09-09 - Fourth International Conference of Georgian Mathematical Union, Batumi, Georgia, 9-15 September, 2013 (Chair of the Scientific Committee, Plenary speaker)
- 2013-06-10 - MAFELAP 2013, Conference on Mathematics of Finite Elements and Applications, 10-14 June, 2013, London, UK.
- 2012-12-19 - III ANNUAL MEETING OF THE GEORGIAN MECHANICAL UNION, 19-21, DECEMBER, 2012, TBILISI, GEORGIA (Member of the Scientific Committee)
- 2012-09-02 - Third International Conference of Georgian Mathematical Union, Batumi, Georgia, 2-9 September, 2012
- 2012-06-25 - SECOND LMS-WIMCS WORKSHOP ON WIENER-HOPF METHOD AND ITS APPLICATIONS, 25-26 JUNE, 2012, ABERYSTWITH, UK
- 2011-12-15 - II ANNUAL MEETING OF THE GEORGIAN MECHANICAL UNION, 15-17 DECEMBER, 2011, TBILISI, GEORGIA
- 2011-09-15 - Second International Conference of Georgian Mathematical Union, Batumi, Georgia, 15-19 September, 2011 (Chairman of the Organizing Committee, Member of the Scientific Committee)
- 2011-09-09 - International Conference "CONTINUUM MECHANICS AND RELATED PROBLEMS OF ANALYSIS" dedicated to the 120-th birthday anniversary of academician N. Muskhelishvili, September 9-14, 2011 in Tbilisi, Georgia. (Member of the Scientific Committee)
- 2011-07-04 - Eighth UK Conference on Boundary Integral Methods, University of Leeds, UK, 4-5 July 2011
- 2011-06-30 - International Conference "Integral and Differential Operators and Their Applications" in honour to Professor Stefan Samko on the occasion of his 70th birthday, Portugal, University of Aveiro, June 30 -- July 2, 2011
- 2010-11-26 - International Symposium on Mathematics and Applications, Athens, University of Athens, November 26-28, 2010.
- 2010-09-12 - First International Conference of Georgian Mathematical Union, Batumi, Georgia, September 12-19, 2010. (Organizer of the Conference, Member of the Organizing Committee, Chairman of the Program Committee).
- 2010-08-30 - International Symposium on Trends in Applications of Mathematics to Mechanics (STAMM 2010), Akademie Schmockwitz, Berlin, Germany, August 30 - September 2, 2010.
- 2010-07-12 - Eleventh International Conference on Integral Methods in Science and Engineering, University of Brighton, UK, 12-14 July, 2010.
- 2010-10-09 - 5th Congress of Georgian Mathematical Union, 9-12 October, 2009, Batumi-Kutaisi,

- Georgia, (Organizer of the Congress, Member of the Scientific Committee).5th Congress of Georgian Mathematical Union, 9-12 October, 2009, Batumi-Kutaisi, Georgia, (Organizer
- 2009-09-07 - ESMC2009 - 7-th EUROMECH - SOLID MECHANICS CONFERENCE, Instituto Superior Tecnico Lisbon, Portugal, 7-11 September, 2009
  - 2009-07-13 - ISAAC CONGRESS-2009, 7-th WORD CONGRESS OF THE INTERNATIONAL SOCIETY FOR ANALYSIS, ITS APPLICATION AND COMPUTATION, Imperial College London, London, UK, 13-18 July , 2009.
  - 2009-06-09 - MAFELAP-2009, THE MATHEMATICS OF FINITE ELEMENTS AND APPLICATIONS 2009 (Mini-symposium on Mathematics and Numerics of Boundary-Domain Integral Equations), Brunel University, West London, UK, 9-12 June, 2009.
  - 2020-09-02 - X Annual International Conference of the Georgian Mathematical Union, 2-6 September, 2019, Batumi, Georgia
  - 2020-09-23 - The Fourth International Conference on Applications of Mathematics and Informatics in Natural Sciences and Engineering (AMINSE 2019) and TICMI Advanced courses, 23-26 September, 2019, Tbilisi, Georgia.
  - 2020-04-22 - XXIV International Enlarged Sessions of the Seminar of Ilia Vekua Institute of Applied Mathematics (VIAM) of Ivane Javakhishvili Tbilisi State University (TSU), 22-24 April, 2020
  - 2020-10-27 - 4th ICOM 2020-International Conference on Mathematics: "An Istanbul Meeting for World Mathematicians", Istanbul, Turkey, 27-30 October, 2020 (Online conference)
  - 2021-06-16 - The Fifth International Conference on Applications of Mathematics and Informatics in Natural Sciences and Engineering (AMINSE 2021), June 16-19, 2021, Tbilisi, I.Vekua Institute of Applied Mathematics, T S U . (Online coerence)
  - 2021-08-02 - 13th ISAAC Congress, Ghent (Belgium), August 2-August 6, 2021 (online)
  - 2021-08-23 - XI Annual International Conference of the Georgian Mathematical Union, 23-28 August, 2021, Batumi, Georgia (Chairman of the Scientific Committee).
  - 2022-08-29 - XII International Conference of the Georgian Mathematical Union, August 29 - September 3, 2022, Batumi, Georgia (Chairman of the Scientific Committee).  
<http://gmu.gtu.ge/Batumi2022/>
  - 2022-05-01 - Visiting professor at Keele University, UK, 1-28 May, 2022. Short course for PhD students - Method of potentials in the generalized refined models of Mathematical Physics.
  - 2022-07-02 - General assembly of the International Mathematical Union, Helsinki, Finland: Participant - the delegate of the Georgian Mathematical Union.
  - 2023-07-04 - Partial Differential Equations in Applied Mathematics: a hybrid conference in honour of Ioannis Stratis, July 4-5, 2023, Athens, Greece
  - 2023-08-20 - 10th International Congress on Industrial and Applied Mathematics, August 20-25, 2023, Tokyo, Japan
  - 2023-09-30 - The Tbilisi Analysis & PDE Workshop (TAPDE Workshop 2023), August 30 - September 2, 2023 the University of Georgia, Tbilisi.
  - 2023-09-04 - XIII International Conference of the Georgian Mathematical Union, September 4-9, 2023, Batumi, Georgia (Chairman of the Scientific Committee).
  - 2023-09-13 - The Fourth International Conference "MODERN PROBLEMS IN APPLIED MATHEMATICS" , Tbilisi, Georgia, September 13-15, 2023. (Member of the Scientific Committee).

## Languages

- Georgian



- English
- Russian