

Tamar Gogua

Personal information

DOB: 20.05.1976

Address: 1, Chavchavadze Ave., 0179 Tbilisi, Georgia

Phone: +995 322 250 484 (ext. 1274 office)

+995 577 143313 (cell)

E-mail: tamar.gogua@tsu.ge



Professional experience

- 09.2008 - **Chief Specialist (category 1)**
Department of Scientific Research and Development
Ivane Javakhishvili Tbilisi State University, TSU
- 2019- **ABET Facilitator**
Electrical and Electronics Engineering Program
Faculty of Exact and Natural Sciences, TSU
- 08.2014 – **Freelance Trainer (SCOPUS, ScienceDirect, Mendeley)**
Elsevier B.V.
- 2010 - **Invited Lecturer (Subject: Research Management)**
TSU
- 02-08.2008 **Senior Specialist**
Department of Scientific Research and Development
Ivane Javakhishvili Tbilisi State University, TSU
- 2006-2008 **Assistant Professor**
Faculty of Exact and Natural Sciences, TSU
- 2002-2006 **Laboratory Assistant**
Laboratory of Applied Electrodynamics and Radio Techniques, TSU
- 2000-2002 **Probationer**
Laboratory of Applied Electrodynamics, TSU

Scientific/Academic degree

- 2004 Candidate of Technical Sciences, Ph.D. / Academic doctor

Education

- 2004 Ph.D. in Technical Sciences
Georgian Technical University (GTU), Tbilisi, Georgia
- 2000 MS (Diploma with honor); Majoring in Applied Mathematics
Faculty of Information Science and Control Systems, GTU, Tbilisi, Georgia
- 1997 BS (diploma with honor)
Faculty of Physics-Techniques and Electronics, GTU, Tbilisi, Georgia

Academic experience

- 2010- Lecture course in Research Management
- 2006 -2008 Lecture course in Computer Skills

Trainings/Workshops

4-5.04.2024	7 Professional Development Hours (PDHs) for participation at the 2024 ABET Symposium, participation certificate
3.04.2024	8 Professional Development Hours (PDHs) for participation in the Fundamentals of Program Assessment workshop, participation certificate
10-12.07.2023	Elsevier trainers Central & Eastern Europe Freelancers' days, participation certificate
14-16.04.2021	12 Professional Development Hours for participation at the 2021 ABET Symposium, participation certificate
13-14.12.2017	Training for the research and entrepreneurs in the field of energy, C-Energy2020. participation certificate
01.-03.2013	University Administration Support Program (UASP), International Research and Exchange Board (IREX); Rutgers, The State University of New Jersey, USA; Management Topic: Research Management
16-19.12.2013	Workshop on Strategies for Success in Proposal Writing & Authorship of Research Articles. CRDF Global, participation certificate
26.11.2013	TISC Workshop on Innovation Support Through Access to Technological Knowledge: Patent Analysis and Landscapes. WIPO, SAKPATENTI, participation certificate
04.2013	STEP Technology Commercialization Practicum, Science & Technology Entrepreneurship Program, CRDF/SRNSF/GRDF, participation certificate
14-15.11.2011	STEP Technology Entrepreneurship Development Workshop, STEP, CRDF/GRDF. participation certificate
3-6.05.2010	Technology Transfer and Technology Licensing Worksop CLDP/SSGF/GRDF, participation certificate
06.2009	CRDF STEP from Idea to Market Workshop: Intellectual Property Protection, Tbilisi, Georgia, Certificate in Recognition of Participation
10.2009 – 04.2010	CCNA Cisco Network Academy, GRENA
06.2008	Technology commercialization, basic business practices and partnership development CRDF/GNSF/GRDF, participation certificate

Awards, honors

2009-2010	President Grant for Young Scientists, GNSF
09.2007	Award for the Best Oral Presentation at the International Seminar/Workshop "Direct and Inverse Problems of Electromagnetic and Acoustic Wave Theory" (Diped-2007); 2007, Lviv, Ukraine

Memberships

2005 -	IEEE Member (Georgian Chapter Treasurer)
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Conferences:

2012-	International Seminar/Workshop "Direct and Inverse Problems of Electromagnetic and Acoustic Wave Theory (DIPED), Member of Organizing Committee
2013	IREX University Administration Support Program Conference, October 5-6, Kiev, Ukraine
2009	International Seminar/Workshop "Direct and Inverse Problems of Electromagnetic and Acoustic Wave Theory (DIPED-2009)", Lviv, Ukraine
2007	International Seminar/Workshop "Direct and Inverse Problems of Electromagnetic and Acoustic Wave Theory (DIPED-2007)", Lviv, Ukraine

Participation in scientific projects: see attachment

Publications: see attachment

Skills

Foreign languages

English – fluent

Russian – fluent

Computer skilled

Windows, Microsoft office (Word, Excel, Power Point, Outlook), Adobe Photoshop, Adobe Acrobat Professional, Adobe Dreamweaver CS6; Network administration

Scientific Projects

2019-2020 Erasmus+: Higher Education – International Capacity Building (E+CBHE) Project	Project participant / TSU team member “Raising Research Capacity of Georgian HEIs through Developing R&D Units (HERD)” (Agreement number – 2018-2578 / 001 – 001; Project reference number: 598207-EPP-1-2018-1-GE-EPPKA2-CBHE-SP)
2013-2015 TEMPUS IV 6 th Call	TSU Team Member Development of Embedded System Courses with implementation of Innovative Virtual approaches for integration of Research, Education and Production in UA, GE, AM - DESIRE 544091-TEMPUS-1-2013-1-BE-TEMPUS-JPCR
2013-2015 SRNSF, Grant for Applied Research	Project Main Participant Development of Grid Infrastructure and Services to Support Research Communities in Georgia
08.05.2012 GNSF Conference grant	Project Leader XVIIth International Seminar/Workshop on DIRECT AND INVERSE PROBLEMS OF ELECTROMAGNETIC AND ACOUSTIC WAVE THEORY, DIPED-2012
09.-11.2010 IREX, UASP	Project participant “Tbilisi State University Research Portal”
2012 SRNSF, Grant for Applied Research	Project Main Participant GeoTeX-Georgian Language Support in TeX system
2009-2011 SNF, SCOPE	Project main staff “Modernization of LAE infrastructure and development of Unique Georgian Research Portal”
2009-2012 GNSF	Project Main Participant “Buried objects detection and discrimination: combining fast, accurate and physically complete forward and inverse models for UXO identification problems”
2009-2012 GNSF	Project Main Participant “Simulation of Composite Meta-Materials for Nano-Optical Devices”
2009-2010 President Grant for Young Scientists, GNSF	Project Leader “Investigation of the Pear-Shaped Metal-Dielectric Antenna using the negative dielectric parameters and matching device”
2008-2010 NATO NIG	Project Administrator “Development of the Network Infrastructure at R&E Center and Mod of Distance Learning at TSU”
2007-2009 CRDF/GRDF	Project Research Staff “Advanced EM forward and inverse modeling approaches: application to subsurface objects detection and discrimination”
2006-2008 GNSF	Project Main Participant “Research of Dielectric Coated Personal Communication Systems (PCS) Antennas to meet modern claims of Electromagnetic Compatibility (EMC) with Achieving Maximal Health Safety for User”
2005-2008 SNF SCOPE	Project Research Staff “Simulation and Synthesis of Metamaterials for Electromagnetics and Optics”

2003-2004
CRDF/GRDF

Project Research Staff

“Development of an Efficient Numerical Method and Creation of User-Friendly Software Package for the Solution of Electromagnetic Compatibility Problems for Unbounded Complex Structures”

2000-2003
SNF, SCOPE

Project Participant

“Development of codes for High-Density Integrated Optics”.

Publications

1. L. Kvinikadze, G. Ghvedashvili, A. Kukulava, **T. Gogua**, T. Tsitlanadze, T. Gavasheli. "The Administrative Challenges of Policy Making for Estimation of Faculty Performance Accountability". Proceedings of ICERI2019 Conference, 11-13 November 2019, Seville, Spain, ISBN: 978-84-09-14755-7.
2. K. Tavzarashvili, G. Ghvedashvili, G. Kajaia, **T. Gogua**, N. Tkeshelashvili. "3D Optical Nano-Antenna". Proceedings 2015 XXth International Seminar/Workshop on Direct and Inverse Problems of Electromagnetic and Acoustic Wave Theory (DIPED-2015), September 21-24, 2015, Lviv, Ukraine, pp. 102-105.
3. **Gogua, T.**, Andriychuk, M.I. "XIXth international seminar/workshop DIPED-2014". IEEE Antennas and Propagation Magazine. Volume 56, Issue 6, 1 December 2014, Article number 7011049, Pages 197-201. <http://ieeexplore.ieee.org/document/7011049/>
4. **Gogua, T.**, Andriychuk, M.I. "XVIIIth international seminar/workshop DIPED-2013". IEEE Antennas and Propagation Magazine. Volume 56, Issue 1, February 2014, Article number 6821767, Pages 152-154
5. K. Tavzarashvili, G. Ghvedashvili, **T. Gogua**. "Computer simulation of nanoplasmonic antennas". XVIIIth International Seminar/Workshop on Direct and Inverse Problems of Electromagnetic and Acoustic Wave Theory (DIPED-2013), September 23-26, 2013, Lviv, Ukraine, pp. 97-100.
6. **T. Gogua**. Research Management at Rutgers, The State University of New Jersey (RU) – Hands-on Experience for Tbilisi State University (TSU), IREX UASP Case Study, 2013
7. D. Kakulia, A. Lomia, **T. Gogua**, G. Ghvedashvili, T. Gavasheli. The MAS based simulation of plane wave angular incident on two-dimensional dielectric sphere array, XVIIth International Seminar/Workshop on Direct and Inverse Problems of Electromagnetic and Acoustic Wave Theory (DIPED-2012), September 24-27, 2012, Tbilisi, Georgia, pp. 63 - 67.
8. G. Ghvedashvili, L. Shoshiashvili, **T. Gogua**, K. Tavzarashvili. Web based research administration and information system. Proceedings of XVIth International Seminar/Workshop on Direct and Inverse Problems of Electromagnetic and Acoustic Wave Theory (DIPED-2011), September 26-29, 2011, Lviv, Ukraine. pp. 161-164.
9. G. Ghvedashvili, L. Shoshiashvili, **T. Gogua**, K. Tavzarashvili. "Web based research administration and information system". Proceedings of XVIth International Seminar/Workshop on Direct and Inverse Problems of Electromagnetic and Acoustic Wave Theory (DIPED-2011), September 26-29, 2011, Lviv, Ukraine. pp. 161-164.
10. L. Shoshiashvili, K. Tavzarashvili, G. Ghvedashvili, T. Gogua. Electromagnetic research environment (EMAGRE) - Crossplatform EM software package based on FDTD method. Proceedings of XVIth International Seminar/Workshop on Direct and Inverse Problems of Electromagnetic and Acoustic Wave Theory (DIPED-2011), September 26-29, 2011, Lviv, Ukraine. pp. 174-177.
11. Giorgi N. Ghvedashvili, David G. Kakulia, Kakhaber N. Tavzarashvili, and **T. L. Gogua**. Investigation of Pear-shaped Monopole Antenna. PIERS Proceedings, Progress In Electromagnetics Research Symposium (PIERS 2008 Cambridge), pp. 311 - 317, July 2-6, Cambridge, USA, 2008
12. R. Zaridze, D. Kakulia, G. Ghvedashvili, G. Sapparishvili, **T. Gogua**, I. Avaliani. The Internet Network Connection through the LinkStar RCST Terminal in Georgia. Proceedings of XIIth International Seminar/Workshop on Direct and Inverse Problems of Electromagnetic and Acoustic Wave Theory (DIPED-2007), pp. 11-15. September 17-20, 2007, Tbilisi, Georgia.
13. G.N.Ghvedashvili, G.G. Kajaia, D.G. Kakulia, L.S. Shoshiashvili, **T.L. Gogua**. Inverse (receiving) problem for pear shape monopole antenna (PSMA) and study antenna's influence on the user body. Proceedings of XIIth International Seminar/Workshop on Direct and Inverse Problems of Electromagnetic and Acoustic Wave Theory (DIPED-2007), pp. 118-121. September 17-20, 2007, Tbilisi, Georgia.
14. R. Zaridze, D. Kakulia, D. Mazmanov, L. Manukyan, N. Jejelava, **T. Gogua**. "Analyses of Several Realistic Exposure Scenarios near Cellular Base Stations". Proceedings of 17th International Zurich Symposium on Electromagnetic Compatibility. pp. 273-276. 27 February - 3 March, 2006, Singapore.
15. A. Bijamov Jr, D. Kakulia, G. Sapparishvili, **T. Gogua**, D. Karkashadze, R. Zaridze. "Computer Simulation of 3D Complex Material-Based Devices". Proceedings of the 11th International Conference on Mathematical Methods in Electromagnetic Theory (MMET-2006). pp. 424-426. June 26-29, 2006. Kharkiv, Ukraine.
16. R. Zaridze, D. Kakulia, A. Bijamov Jr., G. Sapparishvili, I. Paroshina, **T. Gogua**. "Computer Simulation of 3D Photonic Band Gap Devices Based on Complex Materials". Proceedings of the 2006 IEEE AP-S International

- Symposium on Antennas and Propagation and USNC/URSI National Radio Science Meeting, pp. 4619-4622 Albuquerque, New Mexico, USA, July 9 - 15, 2006.
17. R. Zaridze, D. Kakulia, A. Razmadze, L. Shoshiashvili, D. Mazmanov, L. Manukyan, N. Jejelava, **T. Gogua**. "Average Human Model Introduction to Study Realistic Human Exposure to RF Energy". Proceedings of MEDITERRANEAN MICROWAVE SYMPOSIUM 2006, pp. 52-55. September 19-21, 2006, Genova, Italy.
 18. A. Bijamov Jr, D. Kakulia, G. Saparishvili, **T. Gogua**, D. Karkashadze, R. Zaridze. "Computer Simulation of 3D Complex Material-Based Devices". Proceedings of MEDITERRANEAN MICROWAVE SYMPOSIUM 2006, pp. 315-318 September 19-21, 2006, Genova, Italy..
 19. A. Bijamov Jr, D. Kakulia, G. Saparishvili, **T. Gogua**, D. Karkashadze, R. Zaridze. Software for 3D computer simulation of complex material based devices. Proceedings of XIth International Seminar/Workshop on Direct and Inverse Problems of Electromagnetic and Acoustic Wave Theory (DIPED-2006), pp. 181-184. October 11-13, 2006, Tbilisi, Georgia.
 20. D. Karkashadze, L. Shoshiashvili, G. Ghvedashvili, D. Kakulia, G. Kajaia, **T. Gogua**. 3D IWGA Source in FDTD modeling. Proceedings of XIth International Seminar/Workshop on Direct and Inverse Problems of Electromagnetic and Acoustic Wave Theory (DIPED-2006), pp. 197-200. October 11-13, 2006, Tbilisi, Georgia.
 21. Zaridze R., Karkashadze D., Bijamov Jr. A., Kakulia D., Saparishvili G., **Gogua T.** "Computer Simulation of 3D Metamaterial-Based Band-Gap Devices". Proceedings of the European Conference on Antennas & Propagation (EuCAP 2006), November 6-10, 2006, Nice, France.
 22. Zaridze R., Kakulia D., Kajaia G., Mazmanov D., Manukyan L., Jejelava N., **Gogua T.** "EM Field Propagation Outdoors and Indoors and Unconfined Spaces". Proceedings of the European Conference on Antennas & Propagation (EuCAP 2006), November 6-10, 2006, Nice, France.
 23. L.R. Manukyan, I.U. Paroshina, **T.L. Gogua**, D.G. Kakulia. "Simulation of EM scattering on open surfaces by method of auxiliary sources". Proceedings of Xth International Seminar/Workshop on Direct and Inverse Problems of Electromagnetic and Acoustic Wave Theory (DIPED-2005), pp. 48-52. September 12-15, 2005, Lviv, Ukraine.
 24. D.G. Kakulia, D.V. Mazmanov, G.G. Kajaia, **T.L. Gogua**. "Modeling of EM waves for simplified cases of urban and terrain areas by method of auxiliary sources". Proceedings of Xth International Seminar/Workshop on Direct and Inverse Problems of Electromagnetic and Acoustic Wave Theory (DIPED-2005), pp. 61-66. September 12-15, 2005, Lviv, Ukraine.
 25. Gogua T.L. "Mathematical Modelling and Management in Hydraulic Processes", Ph.D. dissertation, Georgian Technical University, Tbilisi, Georgia, 2004.
 26. Gogua T.L. "The Analytical Decision of the Equations of the Mathematical Model Describing Unsteady Modes in Hydraulic Systems". Georgian Engineering News, #4, 2002. ISSN 1512-0287, pp. 85-86.
 27. Namgaladze D.P., Gogua T.L. "Mathematical Model of Management of the Unsteady Mode in Hydraulic Systems". Georgian Engineering News, #4, 2002. ISSN 1512-0287, pp. 144-145.
 28. Namgaladze D.P., Gogua T.L. "Hydraulic Design of the Starting Conditions of the Main Pipeline". Georgian Engineering News, #3, 2001. ISSN 1512-0287, pp. 83-86.
 29. Namgaladze D.P., Gogua T.L. "To Calculation of Lacking Armatures of Pipelines". Georgian Engineering News, #3, 2001. ISSN 1512-0287, pp. 87-89.