

## Tamar Gogua

### Personal information

DOB: 20.05.1976

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

Phone: +995 322 222-473 (office) +995 577 143313 (cell)

Fax: +995 322 222-473

E-mail: [tamar.gogua@tsu.ge](mailto:tamar.gogua@tsu.ge)



### Professional experience

|            |  |
|------------|--|
| 09.2008 -  | <b>Chief Specialist</b><br>Department of Scientific Research and Development<br>Ivane Javakhishvili Tbilisi State University, TSU  |
| 2010 -     | <b>Invited Lecturer (Subject: Research Management)</b><br>Faculty of Humanities, TSU   |
| 02-08.2008 | <b>Senior Specialist</b><br>Department of Scientific Research and Development<br>Ivane Javakhishvili Tbilisi State University, TSU |
| 2006-2008  | <b>Assistant Professor</b><br>Faculty of Exact and Natural Sciences, TSU   |
| 2002-2006  | <b>Laboratory Assistant</b><br>Laboratory of Applied Electrodynamics and Radio Techniques, TSU                                     |
| 2000-2002  | <b>Probationer</b><br>Laboratory of Applied Electrodynamics, TSU   |

### Scientific/Academic degree

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

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

|             |  |
|-------------|--|
| 01.-03.2013 | University Administration Support Program (UASP), International Research and Exchange Board (IREX); Rutgers, The State University of New Jersey, USA;<br>Management Topic: Research Management |
| 04.2013     | STEP Technology Commercialization Practicum, Science & Technology Entrepreneurship Program, CRDF/SRNSF/GRDF, Received Certificate  |
| 3-6.05.2010 | Technology Transfer and Technology Licensing Workop  |

06.2009 CLDP/SSGF/GRDF, Received Certificate  
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, Received 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, Lvov, Ukraine

**Memberships**

2005 - IEEE Member (Georgian Chapter Secretary/Treasurer)

**Conferences:**

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 skills**

Windows XP/7/Vista, Microsoft office (Word, Excel, Power Point, Outlook),  
Adobe Photoshop, Adobe Acrobat Professional, Paint Pro Shop,  
Dreamweaver CS4

**Scientific Projects**

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| 2013-2015                                  | <b>Project Main Participant</b>   |
| SRNSF, Grant for Applied Research          | Development of Grid Infrastructure and Services to Support Research Communities in Georgia  |
| 08.05.2012                                 | <b>Project Leader</b>   |
| GNSF<br>Conference grant                   | XVIIth International Seminar/Workshop on DIRECT AND INVERSE PROBLEMS OF ELECTROMAGNETIC AND ACOUSTIC WAVE THEORY, DIPED-2012  |
| 09.-11.2010                                | <b>Project participant</b>  |
| IREX, UASP                                 | “Tbilisi State University Research Portal”  |
| 2012                                       | <b>Project Main Participant</b>   |
| SRNSF, Grant for Applied Research          | GeoTeX-Georgian Language Support in TeX system  |
| 2009-2011                                  | <b>Project main staff</b>   |
| SNF, SCOPE                                 | “Modernization of LAE infrastructure and development of Unique Georgian Research Portal”  |
| 2009-2012                                  | <b>Project Main Participant</b>   |
| GNSF                                       | “Buried objects detection and discrimination: combining fast, accurate and physically complete forward and inverse models for UXO identification problems”                                |
| 2009-2012                                  | <b>Project Main Participant</b>   |
| GNSF                                       | “Simulation of Composite Meta-Materials for Nano-Optical Devices”   |
| 2009-2010                                  | <b>Project Leader</b>   |
| President Grant for Young Scientists, GNSF | “Investigation of the Pear-Shaped Metal-Dielectric Antenna using the negative dielectric parameters and matching device”  |
| 2008-2010                                  | <b>Project Administrator</b>  |
| NATO NIG                                   | “Development of the Network Infrastructure at R&E Center and Mod of Distance Learning at TSU”   |
| 2007-2009                                  | <b>Project Research Staff</b>   |
| CRDF/GRDF                                  | “Advanced EM forward and inverse modeling approaches: application to subsurface objects detection and discrimination”   |
| 2006-2008                                  | <b>Project Main Participant</b>   |
| GNSF                                       | “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                                  | <b>Project Research Staff</b>   |
| SNF SCOPE                                  | “Simulation and Synthesis of Metamaterials for Electromagnetics and Optics”   |
| 2003-2004                                  | <b>Project Research Staff</b>   |
| CRDF/GRDF                                  | “Development of an Efficient Numerical Method and Creation of User-Friendly Software Package for the Solution of Electromagnetic Compatibility Problems for Unbounded Complex Structures” |

## Publications

1. 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.
2. 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.
3. 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
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. A. Bijamov Jr, D. Kakulia, G. Sapparishvili, **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..
11. A. Bijamov Jr, D. Kakulia, G. Sapparishvili, **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.
12. 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.
13. Zaridze R., Karkashadze D., Bijamov Jr. A., Kakulia D., Sapparishvili 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.
14. 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.
15. 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.
16. 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.
  17. Gogua T.L. "Mathematical Modelling and Management in Hydraulic Processes", Ph.D. dissertation, Georgian Technical University, Tbilisi, Georgia, 2004.
  18. 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.
  19. 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.
  20. 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.
  21. Namgaladze D.P., Gogua T.L. "To Calculation of Lacking Armatures of Pipelines". Georgian Engineering News, #3, 2001. ISSN 1512-0287, pp. 87-89.