

## Curriculum Vitae



### Personal information

First name(s) / Surname(s) **Marina Kapanadze**  
E-mail marika\_kapanadze@iliauni.edu.ge  
Nationality Georgian  
Gender Female

**Desired employment / Occupational field** **Professor at Ilia State University, Georgia Education, Science Education**

### Work experience

Dates	<b>2008 - present</b>
Occupation or position held	Professor of Science Education, head of Science Education Research Centre SALiS
Main activities and responsibilities	Lectures in Science and Science Education, trainings with the in-service science teachers, coordinating of EU funded projects, head of PhD program in Education
Name of employer	<b>Ilia State University, Georgia</b>
Dates	<b>2020 - present</b>
Occupation or position held	Invited Professor
Main activities and responsibilities	Conduct joint research in Science Education, lectures in science education and in physics education
Name of employer	<b>Technical University of Munich, Germany</b>
Dates	<b>2015 - 2016</b>
Occupation or position held	Individual Consultant
Main activities and responsibilities	Design, develop and support the implementation of a learner-centered curriculum that prepares curriculum writers to create learner-centered TPD courses.
Name of employer	<b>Millennium Challenge Corporation - Georgia</b>
Dates	<b>2012 - 2014</b>
Occupation or position held	Expert of Physics, Head of Science Group
Main activities and responsibilities	Development of National Curriculum in Physics and Science, supporting materials for teachers, textbooks revision

Name of employer **Ministry of Education and Sciences of Georgia**  
Tbilisi, Georgia

Dates **2004 - 2011**

Occupation or position held Expert of Physics, Head of Science Group  
Main activities and responsibilities Development of National Curriculum in Physics and Science, supporting materials for teachers, textbooks revision

Name of employer **National Curriculum and Assessment Centre of Georgia**  
Tbilisi, Georgia

Dates **2001 - 2006**

Occupation or position held Teacher of Physics and Mathematics  
Main activities and responsibilities Teaching Physics and Mathematics at the high school

Name of employer **Free Waldorf School Tbilisi**  
Tbilisi, Georgia

Dates **2000 - 2001**

Occupation or position held Researcher  
Main activities and responsibilities Experimental works in technical thermodynamics, seminars with the students

Name of employer **Staatliche Universität Stuttgart, Germany**  
Stuttgart, Germany

Dates **1996 - 2000**

Occupation or position held Head of Administration  
Main activities and responsibilities Management of the administrative work

Name of employer **Free Waldorf School Tbilisi**  
Tbilisi, Georgia

Dates **1993 - 1997**

Occupation or position held Researcher  
Main activities and responsibilities Research in Gene and Protein Engineering, in Bio Thermodynamics. Experimental courses with the students of the university. Supervising of Master Thesis

Name of employer **Institute of Biophysics of Academy of Science of Georgia**  
Tbilisi, Georgia

Dates **1986 - 1988**

Occupation or position held Assistant at the department of Biophysics

Main activities and responsibilities Conducting experiments in Biophysics  
 Name of employer **Tbilisi State University**  
 Tbilisi, Georgia

## Education

Dates **1988 - 1992**  
 Title of qualification awarded PhD in Physics and mathematics  
 Name and type of organisation providing education and training **Institute of Protein Research of Academy of Science of Russia, Moscow**

Dates **1981 - 1986**  
 Title of qualification awarded Master of Physics, Biophysics  
 Name and type of organisation providing education and training **Tbilisi State University**  
 Tbilisi, Georgia

## Personal skills and competences

Mother tongue(s) **Georgian**

Other language(s)  
 Self-assessment  
*European level (\*)*

**English**  
**German**  
**Russian**

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C2	C2	C2	C2	C1
C2	C2	C2	C2	C1
C2	C2	C2	C2	C1

(\*) [Common European Framework of Reference for Languages](#)

Social skills and competences Ability to work individually and as a team member, good communication skills, open minded, ability to look for creative solutions

Organisational skills and competences Good experience in project and team management - leading workgroups and facilitation of team members as well as organizing national and international events, coordinating of international projects

Technical skills and competences Analytical thinking, good presentation skills, good experimental skills in science laboratory

Computer skills and competences MS Office - Word, Excel, Power Point, Project Manager, Outlook, Internet, Google products

## Other skills and competences

### International projects:

Dates  
Main Activities and responsibilities

ERASMUS project - **ESTA**  
2020 - 2023  
Project Coordinator in Georgia

Dates  
Main Activities and responsibilities

**Linnaeus Palme** Project  
2019 - 2020  
Project Coordinator in Georgia

Dates  
Main Activities and responsibilities

ERASMUS project - **ARTIST & CO**  
2016 - 2019  
Project co-coordinator

Dates  
Main Activities and responsibilities

**Linnaeus Palme** Project  
2015 - 2016  
Project Coordinator in Georgia

Dates  
Main Activities and responsibilities

TEMPUS project - **LeAGUe**  
2013 - 2017  
Project Coordinator in Georgia

Dates  
Main Activities and responsibilities

FP7 project - **Chain Reaction**  
2013 - 2017  
Project Coordinator in Georgia

Dates  
Main Activities and responsibilities

FP7 project - **PROFILES**  
2013 - 2016  
Project Coordinator in Georgia

Dates  
Main Activities and responsibilities

TEMPUS project - **SALiS**  
2010 - 2012  
Project Coordinator

## **Lectures and Seminars held within the framework of the ERASMUS Credit Mobility Projects**

2019 Alpen-Adria University of Klagenfurt, Austria  
2019 Linnaeus University, Sweden  
2019 University of Malta, Malta  
2018 Alpen-Adria University of Klagenfurt, Austria  
2017 Linnaeus University, Sweden  
2017 University of Limerick, Ireland  
2017 University of Bremen, Germany  
2016 University of Bremen, Germany  
2014 Free University of Berlin, Germany

## **International Funding**

2018 **Weiser Professional Development Program Award**,  
University of Michigan, USA  
  
2014 **DAAD Research Fund**,  
Free University of Berlin, Germany

## **Grants of Rustaveli National Science Foundation**

2018 - 2020 **School Physics course based on technology innovation**  
Project mentor  
  
2018 - 2020 **Do good explained lesson plans improve students performance?**  
Project mentor  
  
2019 Travel Grant  
  
2019 **Students Science Laboratories** - Science popularization project  
Coordinator of the project

## **Member of the editorial board of international peer – reviewed journals**

1. Eurasia Journal of Mathematics, Science and Technology Education  
<https://www.ejmste.com/home/editorial-office>
2. Eurasian Journal of Physics and Chemistry Education  
<http://ijpce.org/>
3. American Journal of Educational Research  
<http://www.sciepub.com/journal/EDUCATION/editors>

## **Founder and Editor of an international peer – reviewed journal**

- Action Research and Innovation in Science Education  
<http://www.arisejournal.com/>

## Member of International Educational Organizations

1. ESERA - European Science Education Research Association  
<https://www.esera.org/>
2. GIREF - International Research Group on Physics Teaching  
<https://girep.org/>
3. Science on Stage Europe - European Network for STEM teachers - Coordinator in Georgia  
<https://www.science-on-stage.eu/page/display/2/2/2106/GE/Georgia>

## Participation at International and National Conferences

1. ESERA (European Science Education Research Association) 2019, Bologna, Italy, August, 2019
2. GIREF Conference, Budapest, Hungary, July, 2019
3. HERE (Higher Education Reform Experts) Annual Conference 2018, Rome, Italy, December, 2018
4. IMST (Innovationen machen Schulen Top) Conference, Vienna, March, 2018
5. ESERA (European Science Education Research Association) 2017, Dublin, Ireland, August 2017
6. GIREF-ICPE-EPEC Conference, Dublin, Ireland, 3 - 7 July 2017
7. GIREF Seminar, Krakow, Poland, Jagiellonian University, August-September, 2016
8. 23<sup>rd</sup> Symposium on Chemistry and Science Education, University of Dortmund, Germany, May, 2016
9. National Conference of Science Education Research Centre, April, 2016, Tbilisi, Georgia
10. 11. Jahrestagung der Schülerlabor, University of Saarbrücken, Germany, March, 2016
11. Science Education and Green Chemistry for a Sustainable Future, Haifa, Israel, December, 2015
12. ESERA (European Science Education Research Association) 2015 Conference, Helsinki, Finland, September, 2015
13. IOSTE Symposium, Istanbul, Turkey, April, 2015
14. 2<sup>nd</sup> International PROFILES Conference, Berlin, Germany, August, 2014
15. 22<sup>nd</sup> Symposium on Chemistry and Science Education, University of Bremen, June, 2014
16. National Conference of Science Teachers, Tbilisi, Georgia, May, 2014
17. ESERA (European Science Education Research Association) 2013 Conference, Nicosia, Cyprus, September, 2013
18. The International Conference on Physics Education, ICPE - EPEC, Prague, Czech Republic, August, 2013
19. PROFILES National Conference, May, Tbilisi, Georgia, 2013
20. 1<sup>st</sup> International PROFILES Conference, Berlin, Germany, September, 2012
21. Word Conference on Physics Education, Istanbul, Turkey, July, 2012
22. 22-nd International Conference in Chemistry Education, Rome, Italy, July, 2012
23. 21<sup>th</sup> Symposium on Chemical and Science Education, Dortmund, Germany, Mai, 2012
24. ESERA (European Science Education Research Association) 2011 Conference, Lyon, France, September, 2011
25. Gesellschaft für Didaktik der Chemie und Physik, Jahrestagung, Potsdam, Deutschland, September, 2010

26. 20<sup>th</sup> Symposium on Chemical and Science Education, Bremen, Germany, Mai, 2010
27. Gesellschaft für Didaktik der Chemie und Physik, Jahrestagung, Dresden, Deutschland, September, 2009
28. ESERA (European Science Education Research Association) Conference, Istanbul, Turkey, September, 2009
29. Annual Conference of ASE (The Association of Science Education), Reading, UK, January, 2009
30. Gesellschaft für Didaktik der Chemie und Physik, Jahrestagung, Schwäbisch Gmünd, Deutschland, September, 2008.
31. 19<sup>th</sup> Symposium on Chemical and Science Education, Dortmund, Germany, May, 2008;

## Main Publications:

1. Nadiradze, L., Kapanadze, M., Kviravelia, B. (2020) ***Use of Technologies, as the effective instrument for enhancing of motivation in the process of Physics Teaching, INTED2020 Proceedings***, ISBN: 978-84-09-17939-8, ISSN: 2340-1079, doi: 10.21125/inted.2020.0828, (pp. 2768-2773)
2. Eilks, I., Frerichs, N., Kapanadze, M., Laudonia, I., Krause, M. und Rauch, F. (2020) ***ARTIST – Eine internationale Kooperation zur Stärkung von Aktionsforschung in der Lehrer/innenbildung***. In: A. Habicher, C. Juen-Kretschmer, T. Kosler, C. Lechner, C. Oberhauser, A. Oberrauch, M. Tursky-Philadelphly, F. Rauch, & A. Schuster (Ed.), Nachhaltige Bildung, Wien:Präsens (2020), (pp. 169 – 183)
3. Kapanadze, M. (2019) ***Implementation of the Chain Reaction project in Georgia***. In: S. Bevins (eds.), L. Lehane (eds.) & J. Booth (eds.), Comparative Perspectives on Inquiry-Based Science Education. IGI Global Publishing, DOI 10.4018/978-1-5225-5439-4
4. Eilks, I., Frerichs, N. & Kapanadze, M. (2018) ***Action Research to Innovate Science Teaching***. In: I. Eilks, S. Markic & B. Ralle (eds.), Building Bridges Across Disciplines, Publisher: Aachen, Shaker, (pp. 191-196)
5. Sheety, A., Kapanadze, M. & Joubran, F., (2017) ***High School Teachers' Perceptions Regarding Inquiry-Based Curricula in United States, Georgia, and Israel***. In: C. Roofe, C. Bezzina (eds.), Intercultural Studies of Curriculum, DOI 10.1007/978-3-319-60897-6\_4, Palgrave, Macmillan
6. Kapanadze, M., Slovinsky E. & Bagatrishvili, N., (2016) ***Pupils Research Briefs – Implementation of the project Chain Reaction in Georgia***. In: I. Eilks, S. Markic & B. Ralle (eds.), Science Education Research and Practical Work, Publisher: Aachen, Shaker, (pp. 71 -80)
7. Kapanadze, M., Bolte, C., Schulte, Th., Slovinsky, E., (2015) ***Stakeholders' Views on Science Education - Curricular Delphi Study in Georgia***. American Educational Research Journal 3(7), (pp. 897-906)
8. Kapanadze, M., Bolte, C., Schneider, V., Slovinsky, E., (2015) ***Enhancing Science Teachers' Continuous Professional Development in the Field of IBSE and other Aspects of Innovative Science Lessons***. Journal of Baltic Science Education, 2015, Vol.14, (2), (pp. 254 -266)
9. Kapanadze, Marika, Slovinsky Ekaterine; (2014) ***Science Education for Sustainable Development and Project Chain Reaction in Georgia***, In: I. Eilks, S. Markic, & B. Ralle (eds.), Science Education Research and Education for Sustainable Development, Publisher: Aachen: Shaker (2014), (pp. 291-296)

10. Kapanadze, M., & Slovinsky, E., (2014). **Stakeholders' Views on Science Education in Georgia – Curricular Delphi Study**. In: C. Bolte, J. Holbrook, R., Mamlok-Naaman, & F. Rauch, (Eds.). *Science Teachers' Continuous Professional Development in Europe. Case Studies from the PROFILES Project* (pp. 24 - 30). Berlin: Freie Universität Berlin (Germany) / Klagenfurt: Alpen-Adria-Universität Klagenfurt (Austria)
11. Kapanadze, M., & Slovinsky, E., (2014). **Teacher' Ownership towards developing new PROFILES Modules**. In: C. Bolte, & F. Rauch, (Eds.). *Enhancing Inquiry-based Science Education and Teachers' Continuous Professional development in Europe: Insights and Reflections on the PROFILES Project and other PROJECTS funded by the EUROPEAN Commission*. (pp. 118 - 121) Berlin: Freie Universität Berlin (Germany) / Klagenfurt: Alpen-Adria-Universität Klagenfurt (Austria).
12. Kapanadze, M., Eilks, I.; (2014) **Supporting Reform in Science Education in Central and Eastern Europe - Reflections and Perspectives from the Project TEMPUS-SALiS**, Eurasia Journal of Mathematics, Science & Technology Education, 2014, 10(1), (pp. 47-58)
13. Kapanadze, M., & Slovinsky, E., (2014). **Inquiry-based Science Education within the Project PROFILES in Georgia**. In: C. Bolte, & F. Rauch, (Eds.). *Enhancing Inquiry-based Science Education and Teachers' Continuous Professional development in Europe: Insights and Reflections on the PROFILES Project and other PROJECTS funded by the EUROPEAN Commission*. (pp. 112 - 118). Berlin: Freie Universität Berlin (Germany) / Klagenfurt: Alpen-Adria-Universität Klagenfurt (Austria).
14. Kapanadze, Marika; Markic Silvija., (2013) **A broad view on Georgian science teachers' and science student teachers' beliefs about teaching and learning**. Eurasia Journal of Mathematics, Science & Technology Education, 2013, 9(2), (pp. 143-154)
15. Eilks, I., Kapanadze, M., (2013) **Student Active Learning in Science (SALiS) - The theoretical and organisational framework of a TEMPUS IV project**. In: *Chimica nella Scuola* (2013)
16. Schneider, V., Kapanadze, M., Bolte, C., Slovinsky, E.: (2013) **Project PROFILES and Development of In-service Teachers' "Stages of Concerns" Regarding IBSE in the Context of the Implementation of PROFILES Modules in Georgia**. Proceedings of the International Conference on Physics Education, ICPE-EPEC, 2013, Prague, (pp.1039 - 1043)
17. Shulte Theresa; Bolte Claus; Kapanadze Marika & Co. (2013) **A Comparative Analysis of Stakeholders' Views on Science Education from five Different PROFILES Partner Countries – Results of the Second Round of the PROFILES Curricular Delphi Study on Science Education**. In: Proceedings of the 10th ESERA Conference, 2013, Nicosia
18. Kapanadze, Marika; Janashia, Simon; Makashvili, Malkhaz; Eilks, Ingo; Stuckey, Marc; Markic, Silvija., (2012) **Promoting student-active and inquiry-based science learning by the project SALiS**. In: Proceedings of the 9th ESERA Conference, Lyon 2011
19. Kapanadze, Marika; Janashia, Simon; Makashvili, Malkhaz; Eilks, Ingo; Stuckey, Marc; Markic, Silvija., (2012) **Schüleraktives und Inquiry-orientiertes Lehren und Lernen fördern im TEMPUS-Projekt SALiS**. In: D. Höttecke (Hrsg.), *Konzepte fachdidaktischer Strukturierung für den Unterricht*, Münster: Lit (2012), (pp. 586-588)
20. Kapanadze, Marika; Janashia, Simon; Eilks, Ingo., (2012) **Science teacher education by the cross regional TEMPUS-project SALiS**. In: S. Markic, I. Eilks, D. di Fuccia, & B. Ralle (eds.), *Heterogeneity and Cultural Diversity in Science Education and Science Education Research*, Aachen: Shaker (2012), (pp. 215-218)
21. Eilks, Ingo; Kapanadze, Marika; Childs, Peter E., (2012) **Student Active Learning in Science (SALiS) - An introduction to the special issue**. In: *Chemistry in Action* 97 (2012), (pp. 5-7a)

22. Kapanadze, Marika., (2012) ***The Impact of the TEMPUS-project SALiS from the Perspective of Georgia.*** In: Chemistry in Action 97 (2012), (pp. 35-36)
23. Eilks, Ingo; Kapanadze, Marika., (2012) ***Student Active Learning in Science (SALiS) The theoretical and organisational framework of a TEMPUS IV project.*** In: Collection of papers of the SALiS final conference, Tbilisi/GE (2012), (pp. 6-9)
24. Kapanadze, M., (2011), ***Computersimulationen in Unterricht,*** GDGP Jahrestagungsband, Potsdam, In: D. Höttecke (Hrsg.), Naturwissenschaftliche Bildung als Beitrag zur Gestaltung partizipativer Demokratie, Berlin: Lit (2011), (pp. 525-527)
25. Kapanadze M, Eilks I, Janashia S, Markis S, Stucky M, (2011) SALiS: ***Promoting Student Active Learning in Science,*** GDGP Jahrestagungsband, Oldenburg, Deutschland, 2011
26. Kapanadze M., Tsereteli M. (2010) ***Naturwissenschaftliches Denken in der Lehrerbildung von Georgien,*** GDGP Jahrestagungsband, Dresden, In: D. Höttecke (Hrsg.), Entwicklung naturwissenschaftlichen Denkens zwischen Phänomen und Systematik, Berlin: Lit (2010), (pp. 464-466)
27. Kapanadze, Marika; Janashia, Simon; Eilks, Ingo, (2010) ***From science education in the soviet time, via national reform initiatives, towards an international network to support inquiry-based science education - The case of Georgia and the project SALiS.*** In: I. Eilks & B. Ralle (eds.), Contemporary science education, Aachen: Shaker (2010), (pp. 237-242)
28. Kapanadze M., Slovinskaya E., Saginadze N. (2009) ***Schwerpunkte der Entwicklung der Lehrerstandards in Georgien,*** GDGP Jahrestagungsband, Schwebisch-Gmuend, In: D. Höttecke (Hrsg.), Chemie- und Physikdidaktik für die Lehramtsausbildung, Berlin: Lit (2009), (pp. 472-473)
29. Griko Yu.V., Kapanadze M.Z. (1995) ***Purification and characterization of human pancreatic polypeptide expressed in E. coli,*** Biochemical and biophysical research communications, V. 213 (1), USA, 1995
30. Kapanadze M.Z., Griko Yu.V., Privalov P.L. (1993) ***Production of Human Pancreatic Polypeptide in E. coli as a fusion of CRO repressor p fage*** □ Abstracts 37th Annual Conference of Biophysical Society, Washington, USA, 1993
31. Капанадзе М.З., Грико Ю.В. (1993) ***Сравнительное исследование дикого типа и мутанта Q19R Человеческого Панкреатического Полипептида с помощью калориметрии и кругового дихроизма.*** Препринт АН Грузии, 1993