

CURRICULUM VITAE

Personal Information

Name : YURDAGÜL
Surname : BOĞAR
Place of birth : Eskişehir
Gender : Female
Nationality : Türkiye (TC)
Title : Assistant Professor
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Educational History

2012- 2018	Ph.D.	Middle East Technical University Faculty of Education Department of Mathematics and Science Education Ankara, Türkiye.
2007- 2010	MS.	Gazi University Faculty of Education Department of Mathematics and Science Education Ankara, Türkiye.
2003- 2007	B. Sc.	Osmangazi University Faculty of Education Department of Mathematics and Science Education Eskişehir, Türkiye.

Professional Employment History

<u>Year</u>	<u>Title</u>	<u>Affiliation</u>
Sept 2023 - Current	Assistant Professor	Hakkâri University Faculty of Education Department of Mathematics and Science Education Hakkâri/Türkiye
Sept 2024	Visiting Scholar	University of Georgia Mary Frances Early College of Education Department of Mathematics, Science, and Social Studies Education Athens, GA/USA
Sept 2024		
Mar 2023	Visiting Scholar	OsloMet – Oslo Metropolitan University Faculty of Education and International Studies Department of Primary and Secondary Teacher Education Oslo/Norway
Sept 2023		
Sept 2021	Postdoctoral Researcher	University of Helsinki Faculty of Educational Sciences Department of Education Helsinki/Finland
Mar 2023		
2019 - 2021	Assistant Professor	Hakkâri University Faculty of Education Department of Mathematics and Science Education Hakkâri/Türkiye
2018 - 2019	Research Assistant Dr.	Hakkâri University Faculty of Education Department of Mathematics and Science Education Hakkâri/Türkiye
2012 - 2018	Research Assistant	Middle East Technical University Faculty of Education Department of Mathematics and Science Education Ankara/Türkiye.

Aug 2014	Visiting Scholar	Department of Theory and Practice in Teacher Education The University of Tennessee Knoxville, TN/USA
- Jun 2015	-	
Sept 2013	Exchange Student	School of Health and Education Middlesex University London/ England
- Jan 2014	-	
2009 - 2011	Research Assistant	Hakkâri University Faculty of Education Department of Mathematics and Science Education Hakkâri/Türkiye
2008 - 2009	Science Teacher	Büyükkayı Elementary School Eskişehir/Türkiye
2007 - 2008	Science Teacher	Mehmet Yetkin Elementary School Eskişehir/Türkiye

Research Interests

Curriculum Development
 Science Education
 Research Methodologies (Qualitative, Quantitative and Mixed Method)
 STEM & STEAM
 Design Based Research
 Computational Thinking
 Argumentation in Science Education & Scientific Argumentation
 Metacognition & Metacognitive Awareness
 Epistemology & Epistemological Beliefs
 Artificial Intelligence
 Teacher Education

Foreign Language

English

Thesis

Dissertation Title: Exploring 6th Grade Students' Scientific Epistemological Beliefs and Metacognitive Awareness regarding Achievement Level

Ph.D. Advisors: Prof. Dr. Jale Çakiroğlu & Prof. Dr. Özgül Yılmaz-Tüzün

Master Thesis Title: İlköğretim 7. Sınıflarda Maddenin Yapısı ve Özellikleri Konusunun Kavranmasında Yapılandırmacı Öğretim Modeli ve Cinsiyetin Etkilerinin Araştırılması [*The Effects of Constructive Learning Method on Student's Achievement, Retention of Knowledge and Attitudes towards Science Course in 'Matter of Structure and Characteristics' Unit*]

Master Advisor: Prof. Dr. Suna Kalender

Publications (Articles)

1. Pajchel, K., Mifsud, L., Frågat, T., Rehder, M., Juuti, K., **Boğar, Y.**, Lavonen, J., Schröder, V., Aalbergsjø, S., G., Rognes, A (2024). Sign of the Times: An Analysis of Computational Thinking in Norwegian, Finnish and Danish Curricula. *Nordic Journal of Comparative and International Education (NJCIE)*, 8(4). <https://doi.org/10.7577/njcie.5744>
2. **Boğar, Y.** (2021). Tüm Yönleriyle Beyaz Zambaklar Ülkesi Finlandiya [Finland, the Land of White Lilies in All Aspects]. *Derin Maarif*, 18, 46-49.
3. **Boğar, Y.** (2021). COVID-19 Pandemisinde Yüksek Öğretim Öğrencilerinin Değişen Alışkanlıkları [Changing Habits of Higher Education Students During the COVID-19 Pandemic]. *Türkiye Özel Okullar Derneği Dergisi*, 56, 72-74.
4. **Boğar, Y.** (2020). Improvement of Students' Scientific Epistemological Beliefs and Metacognitive Awareness through Argumentation-Based Inquiry Teaching. *Osmangazi Journal of Educational Research*, 7(2), 122-144.
5. **Boğar, Y.** (2019). Synthesis Study on Argumentation in Science Education. *International Educational Studies*, 12(9), 1-14. <https://doi.org/10.5539/ies.v12n9p1>
6. **Boğar, Y.** (2019). Evaluation of the Scientific Reasoning Skills of 7th Grade Students in Science Course. *Universal Journal of Educational Research*, 7(6), 1430-1441. <https://doi.org/10.13189/ujer.2019.070610>
7. **Boğar, Y.** (2019). Review of National and International Studies on Scientific Argumentation in Education. *The Journal of Limitless Education and Research*, 4(1), 90- 120. <https://doi.org/10.29250/sead.494930>
8. **Boğar, Y.** (2019). Literature Review on Inquiry-Based Learning in Science Education. *International Journal of Science and Education*, 1(2), 91-118.
9. **Boğar, Y.** (2018). Literature Review on Metacognition and Metacognitive Awareness. *Anatolian Journal of Teacher*, 2(2), 136-168.

10. Boğar, Y. (2017). Türkiye'de ve Amerika Birleşik Devletleri'nde Öğretmenlere Yönelik Mesleki Gelişim Programlarının İncelenmesi [Investigation of Professional Development Programs for Teachers in Türkiye and the United States]. *The Journal of International Education Science*, 4(10), 223-234.
11. Karibayeva, A. & Boğar, Y. (2014). To what extent does parents' involvement in middle school influence children's educational progress? *Procedia- Social and Behavioral Sciences*, 152, 529-533. <https://doi.org/10.1016/j.sbspro.2014.09.222>
12. Boğar, Y., Kalender, S., & Sarikaya, M. (2012). The Effects of Constructive Learning Method on Students' Academic Achievement, Retention of Knowledge, Gender and Attitudes Towards Science Course in "Structure and Characteristics of Matter" Unit. *Procedia- Social and Behavioral Sciences*, 46, 1766-1770. <https://doi.org/10.1016/j.sbspro.2012.05.375>

Conference Papers Presented in the International Conferences and Published in the Abstract Books or Proceedings

1. Boğar, Y. (2025, March). *A Systematic Review of High Impact Review Studies in STEM Education*. Paper presented at the annual meeting of the National Association for Research in Science Teaching (NARST), Washington, DC, USA.
2. Boğar, Y., & Lavonen, J. (2024, March). *Current Research Trends of Computational Thinking in the Context of STEM Education*. Paper presented at the annual meeting of the National Association for Research in Science Teaching (NARST), Denver, Colorado, USA.
3. Frågat, T., Mifsud, L., Sollid, P. O; Boğar, Y., & Sundtjønn, T. (2023, August). *A Model for Computational Thinking in School and Teacher Education*. Paper presented at the annual conference of the European Educational Research Association (EERA), Glasgow, UK.
4. Anderson, R., Frågat, T., Boğar, Y., Jensen, J. J., & Mifsud, L. (2023, June). *Representations of Computational Thinking in Policy Documents in an Educational Context: The Cases of Denmark, Finland, and Norway*. Paper presented at the annual meeting of the International Society of the Learning Sciences (ISLS), Montreal, Canada.
5. Boğar, Y., & Lavonen, J. (2023, March). *Evaluation of Finnish Middle School Students' STEM Awareness, Career Interest, and Engineering Design Skills*. Paper presented at the Nordic Educational Research Association (NERA) Conference 2023, Oslo, Norway.
6. Perttuli-Borobio, E., Markkanen, A., Boğar, Y., Juuti, K. (2023, March). *Recognizing and Applying Computational Thinking Skills within an Entangled STEAM Curriculum Unit*. Paper presented at the Nordic Educational Research Association (NERA) Conference 2023, Oslo, Norway.
7. Boğar, Y. (2019, April). *Exploring 6th Grade Students' Scientific Epistemological Beliefs Regarding Achievement Level*. Paper presented at the International Conference on Science, Mathematics, Entrepreneurship and Technology Education, İzmir, Türkiye.

8. Boğar, Y. (2019, April). *Determination of Students' Tendency to Pursue Argumentation*. Paper presented at the International Conference on Science, Mathematics, Entrepreneurship and Technology Education, İzmir, Türkiye.

9. Boğar, Y. (2019, March). *Analysis of Theses Conducted by Using Design-Based Research Method in the Field of Education*. Paper presented at 3rd International Congress on Science and Education (UBEK-ICSE), Afyonkarahisar, Türkiye.

10. Boğar, Y. (2019, March). *Exploring 6th Grade Students' Metacognitive Awareness Regarding Achievement Level*. Paper presented at 3rd International Congress on Science and Education (UBEK-ICSE), Afyonkarahisar, Türkiye.

11. Boğar, Y. (2018, September). *Türkiye'de Epistemolojik İnançlar Üzerine Yapılan Makalelerin Tematik Analizi [Thematic Analysis of Articles on Epistemological Beliefs in Türkiye]*. Paper presented at 2nd. International Congress on Science and Education (UBEK-ICSE), Afyonkarahisar, Türkiye.

12. Boğar, Y. (2018, May). *6. Sınıf Öğrencilerinin Bilimsel Epistemolojik İnançlarının Gelişimi Üzerine Bilimsel Argümantasyonun Etkisinin İncelenmesi [Investigating the Effect of Scientific Argumentation on the Development of Scientific Epistemological Beliefs of 6th Grade Students]*. Paper presented at 8th International Congress of Research in Education (ICRE), Manisa Celal Bayar University, Manisa, Türkiye.

13. Boğar, Y. (2018, April). *STEM Education in Türkiye: A Content Analysis*. Paper presented at X. International Congress of Educational Research, Nevşehir Hacı Bektaş Veli University, Nevşehir, Türkiye.

14. Boğar, Y. (2018, April). *Improvement of Middle School Students' Scientific Epistemological Beliefs and Metacognitive Awareness through Scientific Argumentation*. Paper presented at X. International Congress of Educational Research, Nevşehir Hacı Bektaş Veli University, Nevşehir, Türkiye.

15. Boğar, Y. (2018, April). *Development of 6th Grade Students' Scientific Epistemological Beliefs through Scientific Argumentation-Based Teaching*. Paper presented at 27th International Conference on Educational Sciences (ICES), Antalya, Türkiye.

16. Boğar, Y. (2017, April). *Ortaokul Sınıflarında Mühendislik Becerilerinin Geliştirilmesi için STEM Tabanlı Öğrenme Ortamının Tasarımı [Design of STEM-Based Learning Environment for Developing Engineering Skills in Middle School Classes]*. Paper presented at 7th International Congress of Research in Education (ICRE), Çanakkale 18 Mart University, Çanakkale, Türkiye.

17. Boğar, Y. (2017, April). *Lisans Öğrencilerinin Bilimsel Teori ve Kanun Kavramlarına İlişkin Algılarının Belirlenmesi [Determining the Perceptions of Undergraduate Students Regarding the Concepts of Scientific Theory and Law]*. Paper presented at 7th International Congress of Research in Education (ICRE), Çanakkale 18 Mart University, Çanakkale, Türkiye.

18. Boğar, Y. (2017, April). *Quality of A Group Middle School Students' Written Scientific Explanation*. Paper presented at 26th International Conference on Educational Sciences (ICES), Antalya, Türkiye.

19. Boğar, Y. (2017, May). *Epistemology in Science Education Research: A Journal Content Analysis from 2005 to 2016*. Paper presented at International Conference of Strategic Research in Social Science and Education (ICoSReSSE), Prague, Czech Republic.

20. Boğar, Y., & Cakiroglu, J. (2016, April). *Elementary, Middle and High School Students' Scientific Reasoning Skills: A Content Analysis from 1980 to 2015*. Paper presented at the annual meeting of the National Association for Research in Science Teaching (NARST), Baltimore, MD.

21. Boğar, Y. (2016, April). *Elementary School Students' Reasoning Skills: A Meta- Analysis*. Paper presented at the annual meeting of the National Association for Research in Science Teaching (NARST), Baltimore, MD.

22. Boğar, Y. (2015, December). *Türkiye'de SSCI'da Taranan Eğitim Dergilerinin Fen Eğitimi Alanında Araştırma Eğilimleri: İçerik Analizi [Research Trends in the Field of Science Education in Education Journals Scanned in SSCI in Türkiye: Content Analysis]*. Paper presented at 2nd Cyprus International Congress of Education Research, Kyrenia, North Cyprus.

23. Boğar, Y., & Çakiroğlu, J. (2015, October). *The Importance of Teaching and Learning Nature of Science through Metacognitive Strategies: A Synthesizing Study*. Paper presented at International Conference on Best Practices and Innovation in Education (INOVED), İzmir, Türkiye.

24. Boğar, Y. (2015, October). *The Comparison of Higher Education in Türkiye and the United States: A Comparative Study*. Paper presented at I. International Higher Education Studies Conference (IHEC), Boğaziçi University, İstanbul, Türkiye.

25. Boğar, Y. (2015, June). *Türkiye'de ve ABD'de Öğretmenlere Yönelik Mesleki Gelişim Programlarının Geçmişten Günümüze Karşılaştırılmalı Olarak İncelenmesi [Comparative Investigation of Professional Development Programs for Teachers in Türkiye and the USA from Past to Present]*. Paper presented at II. International Eurasian Educational Research (EJER) Congress, Hacettepe University, Ankara, Türkiye.

26. Karibayeva, A. & Boğar, Y. (2014, June). *To what extent does parents' involvement in middle school influence children's educational progress?* Paper presented at Educational Researches and Publications Association (ERPA) Congress, İstanbul University, İstanbul, Türkiye.

27. Boğar, Y. & Arik, S. (2012, May). *Fen ve Teknoloji Öğretmen Adaylarının Teknolojik Pedagojik Alan Bilgisi Özgüven Seviyelerinin Belirlenmesi [Determining the Technological Pedagogical Content Knowledge Self-Confidence Levels of Science and Technology Teacher Candidates]*. Paper presented at IV. International Congress of Educational Research, Yıldız Teknik University, İstanbul, Türkiye.

28. Boğar, Y., Kalender, S. & Sarıkaya, M. (2012, February). *The Effects of Constructive Learning Method on Students' Academic Achievement, Retention of Knowledge, Gender and Attitudes Towards Science Course in "Structure and Characteristics of Matter" Unit*. Paper presented at IV. World Conference on Educational Sciences (WCES), Barselona, Spain.

Conference Papers Presented in the National Conferences and Published in the Proceedings

- 1. Boğar, Y., & Böyükata, M. (2021, May). *Pandemi Döneminde Çevrimiçi Olarak Verilen "Proje Tasarımı ve STEM" İçerikli Eğitim Seminerlerine İlişkin Öğretmen Görüşlerinin Belirlenmesi [Determination of Teacher Opinions on "Project Design and STEM" Education Seminars Given Online During the Pandemic Period]*. Paper presented at XIV. National Science and Mathematics Education Conference (UFBMEK), Mehmet Akif Ersoy University, Burdur, Türkiye.**
- 2. Boğar, Y. (2018, December). *Türkiye'de Eğitim Alanında Üstbilişsel Farkındalık Üzerine Yapılan Tezlerin Tematik Analizi [Thematic Analysis of Theses on Metacognitive Awareness in the Field of Education in Türkiye]*. Paper presented at the X. Ulusal Öğretmenim Sempozyumu, Marmara University, İstanbul, Türkiye.**
- 3. Boğar, Y., & Çakiroğlu, J. (2016, September). *6. Sınıf Öğrencilerinin Bilimsel Epistemolojik İnançlarını ve Bilişüstü Farkındalıklarını Belirlemeye Yönelik Bir Çalışma [A Study to Determine the Scientific Epistemological Beliefs and Metacognitive Awareness of 6th Grade Students]*. Paper presented at XII. National Science and Mathematics Education Conference (UFBMEK), Karadeniz Technical University, Trabzon, Türkiye.**
- 4. Boğar, Y., & Çakiroğlu, J. (2014, September). *Türkiye'de Fen Eğitiminde Eleştirel Düşünme Üzerine Yapılan Çalışmalarla İlgili Derleme [A Compilation of Studies on Critical Thinking in Science Education in Türkiye]*. Paper presented at XI. National Science and Mathematics Education Conference (UFBMEK), Çukurova University, Adana, Türkiye.**
- 5. Arık, S., & Boğar, Y. (2014, September). *Fen ve Teknoloji Öğretmen Adaylarının Çevre Eğitimine İlişkin Nitel Bir Çalışma [A Qualitative Study on the Environmental Education of Science and Technology Teacher Candidates]*. Paper presented at XI. National Science and Mathematics Education Conference (UFBMEK), Çukurova University, Adana, Türkiye.**
- 6. Yenilmez Türkoğlu, A., & Boğar, Y. (2012, June). *Eğitim Fakülerindeki Araştırma Görevlilerinin Bilimsel Modeller Hakkındaki Anlayışlarının İncelenmesi [Examining the Understanding of Research Assistants in Education Faculties About Scientific Models]*. Paper presented at X. National Science and Mathematics Education Conference (UFBMEK), Niğde University, Niğde, Türkiye.**
- 7. Bircan, S., Taş, M., Boğar, Y., & Tanrıverdi, K. (2012, June). *Argümantasyon Tabanlı Bilim Öğrenme (ATBÖ) Raporlarının 7. Sınıf Elektrik Konusundaki Kazanımlarla İlişkisinin İncelenmesi [Examining the Relationship of Argumentation-Based Science Learning (ATBÖ) Reports with the Achievements in 7th-Grade Electricity]*. Paper presented at X. National Science and Mathematics Education Conference (UFBMEK), Niğde University, Niğde, Türkiye.**

8. Canpolat, S., **Boğar, Y.**, & Sarıkaya, M. (2012, June). *Fen ve Teknoloji Dersinde Kavram Haritası Kullanmanın Öğrencilerin Başarıları ve Tutumlarına Etkisinin Araştırılması* [Investigation of the Effect of Using Concept Maps in Science and Technology Lessons on Students' Achievements and Attitudes]. Paper presented at X. National Science and Mathematics Education Conference (UFBMEK), Niğde University, Niğde, Türkiye.
9. **Boğar, Y.**, Kalender, S. & Sarıkaya, M. (2010, September). *İlköğretim 7. Sınıf Öğrencilerinin Fen Akademik Başarılarına 5E Modeli ve Cinsiyet Etkilerinin Araştırılması* [Investigation of the Effects of the 5E Model and Gender on the Science Academic Achievement of 7th Grade Primary School Students]. Paper presented at IX. National Science and Mathematics Education Conference (UFBMEK), Dokuz Eylül University, İzmir, Türkiye.
10. Turhan, E. A., Kılıç, E., **Boğar, Y.** & Sarıkaya, M. (2008, August). *Sekizinci Sınıf Öğrencilerinin Mıknatıs ve Özellikleri Konusunu Kavramalarına ve Fene Karşı Tutumlarına Çoklu Zekâ Kuramına Dayalı Öğrenme Modeli ve Cinsiyetin Etkileri* [The Effects of a Learning Model Based on Multiple Intelligences Theory and Gender on Eighth Grade Students' Comprehension of Magnets and Their Properties and Their Attitudes Towards Science]. Paper presented at VIII. National Science and Mathematics Education Conference (UFBMEK), Abant İzzet Baysal University, Bolu, Türkiye.

Books

1. **Boğar, Y.** (2020). *Discovering Students' Metacognitive Awareness*. Ankara: Akademisyen Kitabevi.

Book Chapters

1. **Boğar, Y.**, & Lavonen, J. (2022). Status and Trends of STEM Education in Finland. In Y. Lee & L. Lee (Eds.), *Status and Trends of STEM Education in Highly Competitive Countries: Country Reports and International Comparison* (pp. 45-95). Taiwan: Technological and Vocational Education Research Center, National Taiwan Normal University, and K-12 Education Administration, Ministry of Education.
2. Karataş, F. Ö., & **Boğar, Y.** (2022). Sinirbilim ve Eğitsel Sinirbilimin Tarihçesi [Educational Neuroscience and History of Neuroscience]. In E. Keleş (Ed.), *Eğitimsel Sinirbilim* [Educational Neuroscience] (pp. 27-45). Ankara: Nobel Akademik Yayıncılık.
3. **Boğar, Y.** (2022). PISA Sonuçlarına Göre Finlandiya'nın Fen Okuryazarlığı'nda Başarılı Olma Nedenleri [Reasons for Finland's Success in Science Literacy According to PISA Results]. In Ö. Demirel, Ö. Özdiyar Gedik, S. Soysal & N. Akkuş Çakır (Eds.), *Gelecek İçin Eğitim: Yüksek Performanslı Eğitim Sistemlerinden Öğrendiklerimiz* [Education for the Future: What We Learned from High-Performance Education Systems] (pp. 19-40). Ankara: Pegem Akademi Yayıncılık.

4. Boğar, Y. (2021). Disiplinlerarası Fen Öğretimi: Okul Öncesinden Ortaöğretime STEM, STEAM ve E-STEM Uygulamalarıyla [Interdisciplinary Science Teaching: From Preschool to Secondary Education with STEM, STEAM, and E-STEM Applications]. In B. Aydoğdu & N. Yıldız-Düban (Eds.), *Disiplinlerarası Fen Öğretiminde STEM, STEAM ve E-STEM [STEM, STEAM ve E-STEM in Interdisciplinary Science Teaching]* (pp. 207-240). Ankara: Anı Yayıncılık.

5. Boğar, Y. (2021). STEM Ürünleri: Akademik Çalışmalar, Sosyal Etkinlikler ve Projeler [STEM Products: Academic Studies, Social Activities and Projects]. In H. Nuhoğlu (Ed.), *Eğitimcinin STEM Öğrenme Yolculuğu [Educator's STEM Learning Journey]* (pp. 421-446). Ankara: Pegem Akademi Yayıncılık.

6. Boğar, Y. (2020). Koronavirüs (COVID-19) Pandemisinin Eğitime Olan Etkilerinin Değerlendirilmesi ve Fen Eğitiminin Sanallaştırılması [Evaluation of the Effects of the Coronavirus (COVID-19) Pandemic on Education and Virtualization of Science Education]. In E. Yeşilyurt (Ed.), *Eğitim Sosyal ve Beşerî Bilimlerine Multidisipliner Bakış [Multidisciplinary Perspective on Education, Social and Human Sciences]* (pp. 78-108). İstanbul: Güven Plus A.Ş. Yayıncıları.

7. Boğar, Y. (2019). Synthesis Study on Epistemological Beliefs in Education. In H. Şahin (Ed.), *Academic Studies in Educational Sciences* (pp. 53-94). Cetinje, Montenegro: Ivpe.

8. Boğar, Y. (2018). Epistemology in Science Education Research: A Journal Content Analysis from 2005 to 2016. In L. Özalemdar (Ed.), *Educational Studies in Science and Mathematics* (pp. 1-12). Newcastle upon Tyne, UK: Cambridge Scholar Publishing.

9. Boğar, Y. (2018). Elementary School Students' Reasoning Skills: A Meta-Analysis. In L. Özalemdar (Ed.), *Educational Studies in Science and Mathematics* (pp. 121-135). Newcastle upon Tyne, UK: Cambridge Scholar Publishing.

Memberships in Scientific Associations

1. NARST: National Association for Research in Science Teaching
2. AERA: American Educational Research Association
3. ESERA: European Science Education Research Association
4. Science Education and Research Association

Projects

Year	Project Owner – Project Name – Researcher Role – Funder – Total Budget
2021 – 2024	OsloMet – Mathematics, Science and Computational Thinking (MASCOT) – Project member – Norwegian Research Council – NOK 12.000.000
2021 – 2023	2020-2024 Horizon/European Union – Attractiveness of Science Career Awareness (SciCar) Project – Project member – European Commission – EUR 899.031,25
2021 – 2023	Assist. Prof. Dr. Yurdagül Boğar – TÜBİTAK 2219 Project – Project leader – The Scientific and Technological Research Council of Türkiye (TÜBİTAK) EUR 25.200
2021 – 2022	Assoc. Prof. Dr. Mustafa Ergün – TÜBİTAK 2237 Project – Project member – The Scientific and Technological Research Council of Türkiye (TÜBİTAK) – \$ 10.000
2014 – 2015	Yurdagül Boğar – TÜBİTAK 2214 Project – Project leader – The Scientific and Technological Research Council of Türkiye (TÜBİTAK) – \$ 18.000
2014	European Union – The Scientific Research Game Project – Project member – European Commission – EUR 50.000

Awards

1. Honor Award from Türk Eğitim Vakfı (TEV) 2007
2. Honor Award from Türk Eğitim Vakfı (TEV) 2006
3. Honor Award from Türk Eğitim Vakfı (TEV) 2005
4. Honor Award from Türk Eğitim Vakfı (TEV) 2004

Scholarships

International Scholarships

1. NARST International Committee Conference Scholarship 2025
2. NARST Early Career Institute (ECI) Scholarship 2024 – 2024
3. Visiting Scholar Grant from The Research Council of Norway 2023 – 2023

4. Postdoctoral Researcher Scholarship from University of Helsinki 2022 – 2023

5. NARST International Committee Conference Scholarship 2016

National Scholarships

1. TÜBİTAK, Postdoctoral Research Scholarship in Finland (1 year) 2021 – 2022

2. TÜBİTAK (2224) Conference Scholarship 2016

3. Middle East Technical University Conference Scholarship 2016

4. TÜBİTAK, PhD Research Scholarship in USA (1 year) 2014 – 2015

5. ERASMUS+ Programme Turkish National Agency Scholarship 2013

6. Türk Eğitim Vakfı (TEV) Scholarship (4 years) 2003 – 2007

Invited Speaker

1. “*Eğitim Yolculuğum: Köy Okulundan Finlandiya'ya*” [“*My Educational Journey: From Village School to Finland*”], Osmangazi University, Eskişehir, Türkiye, 13 May (2022).

2. “*Fin Eğitim Sistemi ve Bilimin Doğası*” [“*Finnish Education System and the Nature of Science*”], Bartın University, Bartın, Türkiye, 7 April (2022).

3. “*STEM in Finland*”, BILTEMM (STEM) Öğretmen Enstitüleri Kongresi [BILTEMM (STEM) Teacher Institutes Congress], Türkiye, 12 June (2021).

Seminars, Workshops, Forums, and Training Camps Delivered

1. “*Computational Thinking in the Context of STEM Education*”, University of Helsinki, Helsinki, Finland, August 26 (2022).

2. “*Finlandiya da STEM Yaklaşımı ve STEM Uygulamaları*” [“*STEM Approach and STEM Applications in Finland*”], Scientix Türkiye Mesleki Gelişim Çalıştayı, Türkiye, 13 June (2022).

3. “*Ebeveynlik Konusunu Ele Alan Çalışmaların Araştırma Eğilimlerinin Belirlenmesi*” [“*Determining Research Trends in Studies Addressing Parenting*”]. 6. Toplumsal Cinsiyet Adaleti Kongresi, İstanbul University, İstanbul, Türkiye, 5 March (2020).

4. "STEM Nedir, Ne Değildir ve Neden Bu Kadar İlgi Çekici Hale Gelmiştir?" [“What is STEM, What is It Not, and Why Has It Become So Interesting?”], Yozgat, Türkiye, 22 June (2019).
5. "Velayet Konusunu Ele Alan Tezlerin Araştırma Eğitimleri İçerik Analizi Çalışması" [“Research Training Content Analysis Study of Theses Addressing the Subject of Custody”] Tüm Yönüyle Velayet Sempozyumu, Erzurum University, Erzurum, Türkiye, 1 November (2019).
6. "Türk Toplumunda Aile Yapısı Üzerine Yapılan Araştırmaların Tematik Olarak Değerlendirilmesi" [“Thematic Evaluation of Research on Family Structure in Turkish Society”] 5. Toplumsal Cinsiyet Adaleti Kongresi, İstanbul University, İstanbul, Türkiye, 7 March (2019).

Seminars, Workshops, Forums, and Training Camps Attended

1. Seminar on Nature of Science (Bilimin Doğası) by Prof. Dr. Fouad Abd El Khalick, Pamukkale University, Denizli, Türkiye, (2012, 1 June).
2. Science Education and Research Association Workshops-II: LISREL and NVivo, Niğde University, Niğde, Türkiye, (2012, June 26).
3. Seminar on Socio-Scientific Issues, Prof. Dr. Dana Zeidler, Dr. Ahmet Kılınç, Dr. Özgül Yılmaz-Tüzün, Learning and Student Development (LSD): Middle East Technical University, Ankara, Türkiye, (2012, August 1).
4. Forum on What is Education Politics? by Prof. Dr. Ziya Selçuk, TED Ankara College, Ankara, Türkiye, (2013, 27-28 April).
5. Seminar on New Trends in Education by Prof. Dr. Deanne Kuhn & Doc. Dr. Ahmet Kılınç, Abant İzzet Baysal University, Bolu, Türkiye, (2013, 6 August).
6. Seminar on Writing High Quality Papers in Social Sciences by Prof. Dr. Deanne Kuhn & Doc. Dr. Ahmet Kılınç Abant İzzet Baysal University, Bolu, Türkiye, (2013, 6 August).
7. Seminar on Students' Engagement in Epistemic Practices in the Science Classroom: Producing Expressed Models by Prof. Dr. Maria Pilar Jimenez Alexiandre, Boğaziçi University, İstanbul, Türkiye, (2013, August 26).
8. Seminar on PISA 2012 Results and Education Policies by Doc. Dr. Gültekin Çakmakçı, Hacettepe University, Ankara, Türkiye, (2014, 21 February).
9. Seminar on Being a Parent to 21st Century Children by Prof. Dr. Ziya Selçuk, Özel Maya Schools, Ankara, Türkiye, (2014, 8 March).

10. TÜBİTAK Horizon 2020 Marie Skłodowska Curie Actions Info-Day, TÜBİTAK Feza Gursey Conference Room, Ankara, Türkiye, (2014, 27 March).
11. Seminar on From Village Institute to Present, Middle East Technical University, Ankara, Türkiye, (2014, 17 April).
12. Workshop on Learning Leader Teacher, Middle East Technical University, Ankara, Turkey, (2014, 26-27 April).
13. Seminar on Gifted Children by Prof. Dr. Ayşegül Ataman, ODTÜ Geliştirme Vakfı Ankara Schools, Ankara, Turkey, (2014, 21 May).
14. Seminar on Reinventing the Laboratory Experience (Laboratuvar Deneyiminin Yeniden Yapilandırılması) by Prof. Dr. William F. McComas, Özel Maya Schools, Ankara, Turkey, (2014, 26 May).
15. Seminar on Confronding Some Big and Little Myths about Education by Prof. Dr. David C. Berliner, The University of Tennessee, Knoxville, TN, USA, (2014, 28 October).
16. Seminar on Mixed Methods Research Design and Analysis with Validity: A primer by Prof. Dr. Burke Johnson, Hacettepe University, Ankara, Turkey, (2015, 8-10 June).
17. Seminar on A Social Constructivist View of Learning Trajectories, by Dr. Michelle Stephan, Middle East Technical University, Ankara, Turkey, (2015, 1 July).
18. Seminar on Assessment Strategies in Inquiry-Based Science Teaching at STEM & Makers Fest 2015, Hacettepe University, Ankara, Turkey, (2015, 7-8 September).
19. PhD Research Camp held within the scope of the International Conference on Best Practices and Innovations in Education (INOVED), Dokuz Eylül University, İzmir, Turkey, (2015, 29-30 October).
20. TÜBİTAK Seminar on Scientific Research Project Preparation Training at Academic Level by Prof. Dr. Asim Kadıoğlu, Prof. Dr. Birdoğan Baki, Prof. Dr. Nurettin Yayı, Prof. Dr. Bülent Güven, Prof. Dr. Yener Eyüboğlu, Karadeniz Technical University, Trabzon, Turkey, (2016, 23-25 September).
21. Ulusal Açık Erişim Conference, The Scientific and Technological Research Council of Turkey (TÜBİTAK), Ankara, (2016, 27 October).
22. Eğitimde FATİH Projesi Eğitim Teknolojileri Zirvesi (ETZ) by Ministry of Education, The Green Park Hotel Ankara, Ankara, Turkey, (2016, 17-18 November).
23. TÜBİTAK Seminar on Qualitative Based Research Journey with Field Experts by Prof. Dr. Salih Çepni, Uludağ University, Bursa, Turkey, (2016, 19-25 November).
24. Seminar on First Aid, Middle East Technical University, Ankara, Turkey, (2016, 05-06 December).
25. III. International Women & Justice Summit, Grand Cevahir Otel ve Kongre Merkezi, İstanbul, Turkey, (2018, 23-24 November).

26. TÜBİTAK Seminar on MÜPKOM Research Project Preparation Trainings by Muğla Sıtkı Koçman Üniversitesi Araştırma Uygulama ve Proje Koordinasyon Merkezi, Muğla Sıtkı Koçman Üniversitesi, Muğla, Turkey, (2019, 21-23 January).

27. PIRE-PBL Workshops
Workshop on Coherence in Science Teacher Education and Science Education, Department of Educational Sciences, University of Helsinki, Helsinki, Finland (2021, 29th November)
Workshop on Scientific and Engineering practices, Department of Educational Sciences, University of Helsinki, Helsinki, Finland (2021, 30th November).

28. Festive Seminar 60th Anniversary and Academy Professor Celebration Katariina Selmela-Aro, Department of Educational Sciences, University of Helsinki, Helsinki, Finland (2021, 1th December).

29. Seminar on Technology and creativity in science and mathematics education, Department of Educational Sciences, University of Helsinki, Helsinki, Finland (2021, 31th March).

30. International Seminar for STEAM Doctoral Students, Department of Educational Sciences, University of Helsinki, Helsinki, Finland (2021, 25th-26th August).

31. Seminar on MASCOT Project, Department of Educational Sciences, University of Helsinki, Helsinki, Finland (2021, 19th-20th-21th September).

32. Seminar on Maker@STEAM, Rantapuisto Conference Hotel, Helsinki, Finland (2021, 29th September)

Board and Committee Memberships in National and International Associations and Actions

1. Project Reviewer, METU College 16. Science Festival
2. Project Reviewer, METU College 17. Science Festival
3. Project Reviewer, METU College 2. EUREKA Scientific Project
4. Project Reviewer, METU College 4. EUREKA Scientific Project
5. Proposal Reviewer, NARST 2016 Annual International Conference
6. Proposal Reviewer, NARST 2017 Annual International Conference
7. Proposal Reviewer, NARST 2019 Annual International Conference
8. Proposal Reviewer, NARST 2024 Annual International Conference
9. Proposal Reviewer, NARST 2025 Annual International Conference
10. Proposal Reviewer, AERA 2024 Annual Meeting

- 11.** Proposal Reviewer, ISLS 2023 Annual Meeting
- 12.** Proposal Reviewer, ISLS 2024 Annual Meeting
- 13.** Proposal Reviewer, ISLS 2025 Annual Meeting

Popular Writing in Turkish Newspapers

- 1.** Hürriyet Eğitim 2022, “*Fin Eğitim Sistemi Neleri Amaçlıyor?*” [“*What Aims of the Finnish Education System?*”]
[https://www.hurriyet.com.tr/egitim/fin-egitim-sistemi-neleri-amacliyor-42026580#:~:text=Fin%20e%C4%9Fitim%20sistemimin%20%C3%B6ncelikli%20amac%C4%81,bakan%20bireyler%20\(%C3%B6%C4%9Fenciler\)%20yeti%C5%9Ftirir.&text=Fin%20e%C4%9Fitim%20sistemimin%20ama%C3%A7lar%C4%81ndan%20bir%20di%C4%9Feri%2C%20%C3%B6%C4%9Fencilerin%20kendilerini%20ke%C5%9Ffetmelerini%20sa%C4%9F%C4%81yor](https://www.hurriyet.com.tr/egitim/fin-egitim-sistemi-neleri-amacliyor-42026580#:~:text=Fin%20e%C4%9Fitim%20sistemimin%20%C3%B6ncelikli%20amac%C4%81,bakan%20bireyler%20(%C3%B6%C4%9Fenciler)%20yeti%C5%9Ftirir.&text=Fin%20e%C4%9Fitim%20sistemimin%20ama%C3%A7lar%C4%81ndan%20bir%20di%C4%9Feri%2C%20%C3%B6%C4%9Fencilerin%20kendilerini%20ke%C5%9Ffetmelerini%20sa%C4%9F%C4%81yor)
- 2.** Hürriyet Eğitim 2021, “*Pandemi Kırsal Kesimdeki Üniversiteleri ve Öğrencilerini Nasıl Etkiledi?*” [“*How Did the Pandemic Affect Rural Universities and Their Students?*”]
<https://www.hurriyet.com.tr/egitim/pandemi-kırsal-kesimdeki-universiteleri-ve-ogrencilerini-nasil-etkiledi-41757096>

Journal Reviewer

- 1.** Instructional Science (Springer)
- 2.** Science & Education (Springer)
- 3.** International Journal of Research in Education and Science (IJRES)
- 4.** Journal of Education in Science, Environment and Health (JESEH)
- 5.** Journal of Teacher Education and Educators (JTEE)
- 6.** Journal of STEAM Education
- 7.** Participatory Educational Research
- 8.** Elementary Education Online
- 9.** Eurasian Journal of Educational Research (EJER)
- 10.** European Journal of Educational Research (EU-JER)
- 11.** Journal of Turkish Science Education (TUSED)
- 12.** International Journal of Educational Methodology (IJEM)
- 13.** The Western Anatolia Journal of Educational Sciences (WAJES)
- 14.** Anatolian Journal of Teacher

- 15.** Journal of Qualitative Research in Education
- 16.** Journal of Education, Theory and Practical Research
- 17.** The Journal of Limitless Education and Research
- 18.** Bartın University Journal of Faculty of Education
- 19.** Amasya Education Journal
- 20.** Pamukkale University Journal of Education
- 21.** İhlara Journal of Educational Research (IHEAD)
- 22.** Mehmet Akif Ersoy University Journal of Education Faculty
- 23.** e-Kafkas Journal of Educational Research
- 24.** Journal of Human and Social Sciences (JOHASS)
- 25.** Inonu University Journal of the Faculty of Education
- 26.** Dokuz Eylül Üniversitesi Buca Eğitim Fakültesi Dergisi

List of the Courses Taught

- 1.** Curriculum Development in Science Education
- 2.** Theories and Approaches in Teaching and Learning of Science
- 3.** Contemporary Issues in Curriculum and Instruction
- 4.** Laboratory Applications in Science Teaching I
- 5.** Laboratory Applications in Science Teaching II
- 6.** Methods of Science Teaching I
- 7.** Methods of Science Teaching II
- 8.** Instructional Technology and Material Development
- 9.** Research and Practice on STEM Education
- 10.** Research Methods in Education
- 11.** History and Philosophy of Science
- 12.** Research on Teaching
- 13.** Environmental Education
- 14.** Educational Design Research
- 15.** Scientific Reasoning Skills