GAMZE KARAER, PH.D.

Curriculum Vitae

Visiting Research Scholar, Educational Psychology Washington State University, College of Education 335 Cleveland Hall, Pullman, Washington 99164 gamze.karaer@wsu.edu (509) 335-2324

PROFESSIONAL BACKGROUND

Education

2022	Ph.D.	Special Education, Eskisehir Osmangazi University, Türkiye
2016	M.S.	Science Education, Eskisehir Osmangazi University, Türkiye
2014	B.S.	Elementary Science Education, Eskisehir Osmangazi University, Türkiye

Professional Experience

2021-2022	Visiting Research Scholar, University of Iowa, USA
2019 – present	Research Assistant, Hakkari University, Türkiye

Courses Taught

Undergraduate

EMB403 – Special Education and Inclusion (2022-2023/Fall)

ERSMBS402 – Individualization and Adaptation of Instruction (2022-2023/Spring)

HEOE102 – Learning Disabilities and Gifted & Talented (2022-2023/Spring)

Dissertation

Karaer, G. (2022). Comparison of Two Different Strategies in Science Education for Students with Specific Learning Disabilities. Eskisehir Osmangazi University, Türkiye. Advisor: Dr. Macid Ayhan Melekoglu.

Publications

- **Karaer, G., &** Hand, B. (2023). Examining the impact of argument-based inquiry (ABI) on special education students' development of critical thinking, science and language skills. *Journal of Thinking Skills and Creativity (Under review)*.
- **Karaer, G.,** Melekoglu, M. A., & Hand, B. (2023). Examining the use of embedded generative strategies with graphic organizers to improve reading comprehension skills of students with learning disabilities. Learning Disability Quarterly, (*Under review*).
- **Karaer, G.** & Melekoğlu, M. A. (2020). Review of studies on teaching science to students with specific learning disabilities. *Ankara University Faculty of Educational Sciences Journal of Special Education*, 21(4), 789-818.
- **Karaer, G.**, Karademir, E. & Tezel, Ö. (2020). Evaluating the use of project-based teaching on the science laboratory course according to the views of the classroom teacher candidates. *Journal of Qualitative Research in Education*, 8(1), 73-95.
- **Karaer, G.**, Karademir, E. & Tezel, Ö. (2019). Determination of pre-service classroom teachers' opinions towards the argumentation-based instruction method in science laboratory. *Eskisehir Osmangazi University Journal of Social Sciences*, 20, 217-241.
- Balbag, M. Z. & **Karaer**, **G.** (2017). The problems of primary school teacher faced in the science teaching process. *Trakya University Journal of Education Faculty*, 8(1), 29-47 (IPTES 2016 Special Issue).
- Balbag, M. Z. & **Karaer**, **G.** (2016). The opinions of the science teachers towards science teaching problems. *Journal of Research in Education and Teaching*, *5*(3), 1-11.
- Balbag, M. Z., Leblebicier, K., **Karaer, G.**, Sarıkahya, E. & Erkan, Ö. (2016). Science education and teaching problems in Turkey. *Journal of Research in Education and Teaching*, 5(3), 12-23.
- **Karaer, G.** (2016). Comparative study of national basic science teaching curriculum: a sample of Turkey and Estonia. *Journal of Education (ESTÜDAM) 1* (1), 55-76.

National and International Conference Presentations

- **Karaer, G.,** & Melekoglu, M. A. (2022, March). Science instructional practices: comparison of two strategies for students with learning disabilities. Poster presentation at the 95th NARST International Annual Science Education Conference (NARST-2022), Vancouver, BC/Canada.
- **Karaer, G.,** & Cavkaytar, A. (2020, October). Characteristics of Individuals with Intellectual Disabilities: Biomedical Risk Factors. Poster presentation at the 30th National Special Education Conference, Bursa/Turkey.

- **Karaer, G.,** & Melekoglu, M. A. (2020, October). Science teaching practices for students with specific learning disabilities. Oral presentation at the 30th National Special Education Conference, Bursa/Turkey.
- **Karaer, G.,** & Diken H. İ. (2018, October). Investigation of Longitudinal Studies on Early Symptoms and Intervention Methods in Children with Specific Learning Disabilities in Early Childhood (2010-2017). Oral presentation at 28th National Conference on Special Education, Eskisehir/ Turkey.
- **Karaer, G.,** & Melekoglu, M. A. (2018, October). Review of Studies on Teaching Science to Students with Specific Learning Disabilities. Oral presentation at 28th National Conference on Special Education, Eskisehir/ Turkey.
- **Karaer, G.**, Karademir, E. & Tezel, Ö. (2017, May). Project based learning activities integrated STEM in science laboratory. Oral presentation at the *International Conference on Education in Mathematics, Science & Technology (ICEMST-2017), Kuṣadası/Turkey.*
- **Karaer, G.** (2017, April). Evaluation of the primary school social skills in terms of PISA examination reports. Oral presentation at the 26th International Conference on Educational Sciences (ICES- 2017), Side/ Turkey.
- **Karaer, G.,** Karademir, E. & Tezel, Ö. (2016, September). Opinions of primary school teacher candidates about argumentation-based teaching and sample activity practice. Oral presentation at 12th National Conference on Science and Mathematic Education (UFBMEK), Trabzon/Turkey.
- **Karaer, G.**, Karademir, E. & Tezel, Ö. (2016, September). Evaluation of the Effect of Project Based Instruction Practices on Science Laboratory Course According to the Opinions of Pre-Service Classroom Teachers. Oral presentation at 12th National Conference on Science and Mathematic Education (UFBMEK), Trabzon/Turkey.
- Balbağ, M. Z. & Karaer, G. (2016, May). Sınıf öğretmenlerinin fen öğretiminde karşılaştıkları sorunlar. 15. Uluslararası Sınıf Öğretmenliği Eğitimi Sempozyumunda sunulan sözlü bildiri (USOS-2016). Muğla/ Türkiye.
- Balbağ, M. Z. & Karaer, G. (2016, May). Fen bilgisi öğretmenlerinin fen öğretiminde karşılaştıkları sorunlara yönelik öğretmen görüşleri. *International Conference on New Trends in Education'da sunulan sozlu bildiri (ICONTE-2016), Antalya/ Türkiye.*
- Balbağ, M. Z., Leblebicier, K., **Karaer, G.**, Sarıkahya, E. & Erkan, Ö. (2016, May). Türkiye'de fen eğitimi ve öğretimi sorunları. *International Conference on New Trends in Education'da sunulan sözlü bildiri (ICONTE-2016), Antalya/ Türkiye*.

Book Chapters

Karaer, G., Karademir, E. & Tezel, Ö. (2017). Process-based activities in science teaching (argumentation and project-based teaching practice examples). E. Karademir, (Ed.), *Skill interaction in sample and application supported science teaching* in (p. 213-251). Ankara: Pegem Akademi.

- **Karaer, G.** (2017). Special teaching methods in science education. M. Sönmez Kartal, Ö. Toper Korkmaz, (Ed.), *Science and social studies teaching in special education* in (p. 39-62). Ankara: Pegem Akademi.
- Tezel, Ö. & Karaer, G. (2017). Development of science teaching activities using cultural children's game and toys in the science teaching process. I. Koleva & G. Duman (Ed.), in *Educational research and practice* (p. 206-214). Sofia: St. Kliment Ohridski University Press.
- **Karaer, G.** & Tezel, Ö. (2017). Designing science teaching activities using cultural children's game and toys. I. Koleva & G. Duman (Ed.), in *Educational research and practice* (p. 215-223). Sofia: St. Kliment Ohridski University Press.

Projects

Project Title: "I Overcome Obstacles by Producing" (Eastern Anatolia Development Agency 2019 Social Development Support Program- [SDSP]), TRB2/19SOGEPGDP/0005). Role: Researcher

Project Title: "Comparison of the Effectiveness of Argumentation and Project-Based Teaching Methods on Pre-Service Teacher Candidates in Science Laboratory" (Scientific Research Project, 2016/21A104). 2015-2016. Role: Researcher.

Certifications, Licenses, & Other Qualifications

Social and Behavioral Responsible Conduct of Research Certificate (University of Iowa, USA)

Human Research Certificate-Social & Behavioral-IRB-02 (University of Iowa, USA)

Basic Healthcare Communication Certificate (Kirkwood Community College, USA)

Nvivo 11 Beginner Training Certificate (Turkiye)

Nvivo 11 Advanced Training Certificate (Turkiye)

Professional Memberships & Reviewer Appointments

Council for Learning Disabilities (2021- present) Membership ID: 69934120

National Association for Research in Science Teaching (2022-present) Membership ID: 1019596

European Science Education Research Association (2017-2020) Membership ID: 25253498

Seminars & Workshops

Visiting Lecturer (October 17-21, 2022. *Special Education and Inclusion in Turkey*. The EU Erasmus +Staff Mobility Program. Tallinn University, Tallinn/Estonia.

Speaker (February 22, 2017). *The Role of Children's Toys in Personality Development*. Psychology -Pedagogical Researches of Childhood. Moscow/Russia.

Funded Grant Proposals

Karaer, G. (2021). *Comparison of Two Different Strategies in Science Education for Students with Specific Learning Disabilities.* The Scientific and Technological Research Council of Turkiye (TUBITAK). 2214-A- International Research Fellowship Programe for PhD Students (\$21,600).