

Name Surname: Gizem Güzeller

Date of Birth: 09/11/1987

Title: Lecturer

Education: Master of Science

Organization: Department of Mathematics and Science Education,
Mathematics Education

Duration of Employment: 5 year 3 months (by 21/06/2022)

First Date Assigned: 16/03/2017



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Education

Degree	Field	University	Year
Bachelor's Degree	Elementary Mathematics Education / Science Education (Minor) (GPA:3.44)	Anadolu University	2009
Master's Degree	Mathematics Education (GPA: 3.81)	Hacettepe University	2018
PhD	Mathematics Education (GPA:3.79)	METU	2018- (in progress)

Projects

Project Type	Project Title	Status	Date	Position
TÜBİTAK 122G182	Equitable Mathematics Education Practices Module for preservice Mathematics Teachers and their development of equitable noticing	In progress	March 2023 – March 2025	Scholarship
TÜBİTAK ARDEB-3501 (121K942)	Developing a Conceptual Model and Pedagogical Toolkit for Blended Design Education	In progress	Feb 2022 – March 2023	Scholarship
ODTÜ-BAP-YÖP-501-2018-2678	Third-, Fourth, and Fifth-Grade Students' Readiness in Early Algebra and The Impact of Early Algebra	Completed	Feb 2019 – Mar 2021	Researcher

TÜBİTAK 1003 (215K478)	Supporting Teachers Working with Refugee and Immigrant Children in Mathematics Education. The Project MIGRA-MATH (215K478)	Completed	Jun 2018 – June 2020	Scholarship
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Publications

⇒ **Master's Theses**

Güzeller, G. (2018). Exploring 5th and 6th grade students' understanding of basic geometrical concepts based on the theory of figural concept. (Master Thesis). Accessed from YÖK Dissertation Center database (516086).

⇒ **Articles published in other international refereed journals:**

In review

- Öztürk, N., İşler-Baykal, I, **Güzeller, G.**, & Saygılı, İ. (Accepted on June). The effects of an early algebra intervention on third grade students' algebraic thinking skills. *Cukurova University Faculty of Education Journal*.
- Çelebi İlhan, E.G., Toker, Z., Alkaş Ulusoy, Ç, Emre Akdoğan, E., **Güzeller, G.**, Balcı, E. (in review). Preschool and Primary Teachers' Noticing within the context of Vertical Team of Mathematics Lesson Study. *Mathematics Teacher Education and Development*.

In preparation

- Çelebi İlhan, E. G. & Güzeller, G. (in preparation) Pre-service teachers' understanding of culturally responsive mathematics teaching practices. *Pamukkale University Journal of Education*
- Güzeller, G. & Akyüz, D. (in preparation). Developing teachers' understanding of VFT-STEAM and STEAM pedagogical practices. *International Journal of STEM Education*

⇒ **Paper presentations presented at international conferences and published at conference proceedings:**

- **Güzeller, G.**, Çelebi, E. G. (2023, August). Developing Pre-Service Teachers' Understanding of Culturally Responsive Mathematics Teaching Through Community Walks, ECER 2023 Congress, Glasgow.
- **Güzeller, G.**, Akyüz, D. (2023, July). Teachers' perceptions of utilizing virtual field trips for teaching STEAM, CERME 2023 Congress, Hungary.
- Çelebi-İlhan, G.E, Toker, Z., Alkaş-Ulusoy, Ç., Emre-Akdoğan, E., Balcı, E. & **Güzeller, G.** (2022, August). Improving Teaching by Problem Solving in Lesson Study, Promath 2022 Congress, Greece.

- **Güzeller, G.** & Çelebi İlhan, E. G. (2022, June). Pre-service Teachers' Understandings of Culturally Sensitive Mathematics Teaching Practices. Presented at IXth International Eurasian Educational Research Congress (EJER Congress), İzmir, Turkey (Online).
- **Güzeller, G.** & Toker, Z. (2021). Reinterpreting the Mathematics Curriculum in the Distance Education Process in the Shadow of the Pandemic. II. International Symposium on Science, Education, Art and Technology, İzmir, Turkey (Online).
- Çelebi İlhan, E.G., Alkaş Ulusoy, Ç., Toker, Z., Emre Akdoğan, E., **Güzeller, G.**, Balcı, E., (2021). Examination of the planning phase of a lesson study conducted with teachers teaching mathematics at different levels, International Symposium on Turkish Computer and Mathematics Education (TURCOMAT-5), Alanya.
- Acar, F., Sevinç, Ş., Çaylan, B., **Güzeller, G.** (2020, Ocak). How Subjectivity Differs in Qualitative and Quantitative Research? Presented at The Qualitative Report 11th Annual Conference, Florida, USA.
- **Guzeller, G.**, Caylan, B., Toker, H., Dışbudak, Ö., & Acar, F. (2020, Ocak). The Journey of PhD Students' Learning Qualitative Research. The Qualitative Report 11th Annual Conference, Florida, USA.
- Öztürk, N., **Güzeller, G.**, Saygılı, İ., & İşler-Baykal, I. (2020). The Effect of an Early Algebra Practice on Third Grade Students' Functional Thinking Skills. EJER Congress 2020 Proceedings Book, (ss. 591 –600), Eskişehir, Türkiye
- Sözen Özdoğan, S. & **Güzeller, G.** (2019, Aralık). Emphasis on multiculturalism in mathematics lesson plans: MIGRA-MAT example. Presented at III. International Teacher Education and Accreditation Congress, Ankara, Turkey.
- Baykal, I. İ., Yıldız, İ., **Güzeller, G.**, & Öztürk, N. (2019, Eylül). Third-, Fourth, and Fifth-Grade Students' Perceptions for Equal Sign. Presented at 4th International Symposium of Turkish Computer and Mathematics Education (TURCOMAT), İzmir, Turkey. (Full paper published)

⇒ **Paper presentations presented at national conferences and published at conference proceedings:**

- Öztürk, N., İşler-Baykal, I, **Güzeller, G.**, & Saygılı, İ. (2021). Development of Skills Related to Variable Use of Third Year Students. 14th National Science and Mathematics Education Congress, Burdur, Turkey (Online)
- Toker, Z. & **Güzeller, G.** (2019). Material Development and Use in Mathematics Education, Kangaroo Mathematics Symposium, İzmir.

Other Publications

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- Olkun, S., Sarı, H. M., & **Güzeler, G.** (2018). İlkokul Öğrencileri İçin: Matematik Küpü 1. Ankara: Vizetek Yayıncılık.

Presentations and Workshops

Presentation

- Teacher Career Fair, Istanbul, 11-12 January 2020. Toker, Z. & Güzeller, G., Enriching Teaching with Contexts of Life.

Workshop

- National Primary Education Student Congress (USOOK 2021). 21-22 May 2022. Sözen Özdoğan, S., **Güzeller, G.**, Yücel, H. S., Ünal, U. Mathematics Applications in Multicultural Classes.
- 2nd Nesin Mathematics Village Symposium – “Yesterday, today, tomorrow in Mathematics Education...”, Şirince, 06-07 April 2019. Toker, Z. & **Güzeller, G.** Material Development and Use in Mathematics Education.
- 3rd Nesin Mathematics Village Symposium – Mathematics and Games, Şirince, 11-12 April 2020. Toker, Z. & **Güzeller, G.** Enriching mathematics teaching with real-life applications.

Administrative Duties /Organizational and Professional Services

- **2021 – in-progress:** Publicity and Event Commission
- **2021 – in-progress:** Web and Social Media Commission (EF Web Editor Assistant)
- **2019 – 2021:** Member of the Accreditation Commission
- **2018 – 2019:** Member of Data Collection and Analysis Commission
- **2018 – in-progress:** TED University Web Page and Social Media Committee Member
- **2017 – in-progress:** Department of Mathematics and Science Education Web page and social media manager

Memberships to Scientific and Professional Organizations

- The Educational Volunteers Foundation of Turkey (TEGV)
- Turkish Intelligence Foundation (TZV)
- National Council of Teachers of Mathematics (NCTM)

Certificates

Date	Name of the Program
31 June 2022– 1 July 2022	STEAM-BOX: Courses, Tools, Resources for Teachers" Project (2020-1-HU01-KA201-078743)
04 June 2022 (in-progress)	Coursera- University of Michigan- Python for Everybody Specialization

25 May 2022 (in-progress)	Coursera - University of Houston - Powerful Tools for Teaching and Learning: Digital Storytelling
22 Jan 2020	Ani Publishing – Interview Training in Qualitative Research
31 Oct 2019	TALES Museum of Mathematics Instructor Education – 3rd Wave in Education; Singapore and Vedic Mathematics Education Systems
30 August 2019	UNESCO-60 Hour continuous professional development program on effective teaching of competence-based STEM curriculum