

Serkan Özel, Ph.D.

ozels@boun.edu.tr ♦ (90) 212 359 6592 ♦ [linkedin.com/in/ozelserkan/](https://www.linkedin.com/in/ozelserkan/)

ET 412

Department of Mathematics and Science Education

Bogazici University

ACADEMIC POSITIONS

Academic Appointments

- Associate Professor of Mathematics Education, Faculty of Education, Bogazici University (2014 to present)
- Department Head, Primary Education, Bogazici University (2014-2016)
- Vice Department Head, Primary Education, Bogazici University (2014-2014)
- Assistant Professor of Mathematics Education, Faculty of Education, Bogazici University (2010-2014)

Research Affiliations

- Visiting Professor, Psychology and Human Development, Peabody College, Vanderbilt University (2019 to 2021)
- Visiting Scholar, University of Cyprus, Nicosia, Cyprus (2012)
- Visiting Scholar, Rutgers University (2009)

K-12 TEACHING POSITIONS

- Middle and High School Mathematics Teacher, Turkish Armed Forces, Artvin, Turkey (2009-2010)

EDUCATION

Ph.D. Texas A&M University, Educational Psychology with specialization in Educational Technology (2009).
Dissertation: Development and Testing of Achievement from Multiple Modes of Mathematical Representation: Audio, Audio-Visual, and Kinesthetic
Committee members: Lauren D. Cifuentes (Chair), Robert M. Capraro (Co-chair), Victor L. Wilson, & Ronald D. Zellner

B.S & M.S. Bogazici University, Mathematics Education (2004). *Honor Graduate*

BOARDS AND ORGANIZATIONAL LEADERSHIP

- *Board of Trustees* – Kriton Curi Environmental Foundation
- *Director* – Center for Educational Technology, Bogazici University (2023 to present)
- *Executive Board Member* - Applied Educational Technology and Research Center, Bogazici University (2021-2023)
- *Associate Director* - Applied Educational Technology and Research Center, Bogazici University (2018 to 2023)
- *Executive Board Member* - Applied Tourism Administration and Research Center, Bogazici University (2012 to present)
- *General Assembly Member* - Applied Tourism Administration and Research Center, Bogazici University (2012 to present)
- *Member* - Faculty Senate, Bogazici University (2012-2016)
- *Member* – Faculty Executive Board, Bogazici University (2018-2019)
- *Academic Advisory Board* – MEC Schools (K-12) (2018-2019)
- *Wise Persons Board* – Education Industry and Technology Institute (2018 to present)
- *Founding Member* – T-STEM (Turkish STEM Coalition) (2012-2018)
- *Founding Member* – Mathematics Educators Society (2012-2014)
- *Editorial Board Member* – Bogazici University Journal of Education (BUJE) (2015 to present)

- *Editorial Board Member* – International Journal of Educational Studies in Mathematics (IJESIM) (2014 to present)
- *Editorial Board Member* – Educational Sciences: Theory & Practice (ESTP) (2013 to present)
- *Editorial Board Member* – Mediterranean Journal for Research in Mathematics (MJRME) (2012 to 2021)

HONORS, AWARDS, AND FELLOWSHIPS

- Teaching Excellence Award – Bogazici University (2024)
- Vanderbilt University Global Scholars in Residence Program (2024)
- International Association of Eurasian Education Trade Unions – Victory Science Award (2022)
- 13th TASAM Strategic Vision Awards – Dr. Sevinc Tunali Special Award (2021)
It is given for the purpose of rewarding prominent individuals/institutions at home or abroad who promote research and contribute to the development of vision through their work in the field of "education."
- Possible Together Award by Confederation of Employer Associations of Turkey (2020)
Producing Face Shields Project by Tupras (I am the consultant of the project) - <http://ortakyarinlar.com/index.html#odulalan>
- SUNY Global Fellow Grant (2015)
To facilitate the development of the faculty and student exchange program between The State University of New York at Geneseo (SUNY at Geneseo) and Boğaziçi University
- Bogazici University Academic Encouragement Award (2012-2016)
- Lechner Graduate Program Grant (2009)
- 11th International Congress on Mathematics Education (ICME 11) Grant (2008)
- Higher Education Council of Turkey Doctoral Fellowship (2004-2009)

MEMBERSHIPS

- American Psychological Association
- Cognitive Development Society
- Cognitive Science Society
- Society for Research in Child Development

SCHOLARLY PUBLICATIONS

Measures

Rittle-Johnson, B., Douglas, A., Zippert, E., **Özel, S.** & Tang, J. (2020) Test of Early Patterning Ability. Available from B. Rittle-Johnson, Vanderbilt University, Nashville, TN 37203

Editorial

Associate Editor (2022-now). *Journal of Experimental Psychology: Applied* published by American Psychological Association. **CABS 2018 Academic Journal Guide: [Grade 4 \(top-ranked\)](#)**

Editor (2021-now). *Bogazici University of Journal Education*.

Executive Editor (2021-now). *Technology, Innovation and Special Education Research Journal*.

Associate Editor (2017-2021). *Bogazici University of Journal Education*.

Nitko, A. J., & Bookhart, S. M. (2016). Educational assessment of students. In B. Bıçak, M. Bahar, & **S. Özel** (Trans. Eds.) Ankara, Turkey: Nobel Akademik. (Reprinted from *Educational assessment of students*, pp. 130-149, by A. J. Nitko, & S. M. Bookhart, 2011, Boston, MA: Allyn & Bacon)

Guest Editor (2013). *Mediterranean Journal for Research in Mathematics Education: An International Journal*, 12(1-2).

Pedagogical Consultant

- Özel, S. (2024). *Children's Activity Kit: GLOSSOLALALA*. Arter. <https://www.arter.org.tr/sergi/johanna-gustafsson-furst-dilek-winchester-glossolalala/4338>
- Özel, S. (2024). *Exhibition Detectives: Hunting for Triangles*. Arter. <https://www.arter.org.tr/EN/learning-detail/exhibition-detectives-hunting-for-triangles/5370>
- Özel, S. (2023). *Children's Activity Kit for Sarkis: Endless*. Arter. <https://www.arter.org.tr/EN/exhibitions/sarkis-endless/1233>
- Özel, S. (2023). *Children's Activity Kit for Eva Kořátková: I Sometimes Imagine I'm a Fish with Legs*. <https://www.arter.org.tr/EN/exhibitions/eva-kořátková-bir-balikmisim-bacaklari-olan/1211>
- Özel, S. (2022). *Children's Activity Kit for Locus Solus*. <https://www.arter.org.tr/EN/exhibitions/locus-solus/305>
- Özel, S. (2022). *Children's Activity Kit for ThisPlay*. <https://www.arter.org.tr/EN/exhibitions/oyunbu/306>
- Özel, S. (2021). *Arter Learning at Home: Fluxus*. Arter. <https://www.arter.org.tr/EN/learning-detail/arter-evde-ogrenme-fluxus/391>

Reports

- Özel (2022). *The Educational Volunteers Foundation of Turkey (TEGV): Measurement and Evaluation Report*. https://tegv.org/uploads/files/kurumsal_yonetim/diger_yayinlar/Y_O_D_A_%20Measurement%20and%20Evaluation%20Report.pdf

Refereed Journal Articles

- Ünal, Z. E., Ala, A. M., Kartal, G., Özel, S., & Geary, D. C. (2024). Ninth-Grade Students' Conceptual Understanding of the Number Line. *Journal of Numerical Cognition*, 10, 1-22. <https://doi.org/10.5964/jnc.12501>
- Ünal, Z. E., Ala, A. M., Kartal, G., Özel, S., & Geary, D. C. (2023). Visual and symbolic representations as components of algebraic reasoning. *Journal of Numerical Cognition*, 9(2), 327-345, <https://doi.org/10.5964/jnc.11151>
- Adıgüzel, T., Aşık, G., Bulut, M. A., Kaya, M. H., & Özel, S. (2023). Teaching self-regulation through role modeling in k-12. *Frontiers in Education: Teacher Education*, 8: 8:1105466, <https://doi.org/10.3389/feduc.2023.1105466>
- Özel, S. (2022). Erken çocuklukta matematik öğreniminde örüntüler [Patterning in Teaching Mathematics in Early Childhood]. *Matematik Dünyası*, 29(114), 96-100.
- Caksen, B., & Özel, S. (2022). Equal sign representations in curriculum and textbooks in middle schools and students' understanding of equal sign. *Scientia Paedagogica Experimentalis*, 59(2), 187-222. <https://doi.org/10.57028/S59-187-Z1011>
- Eren, M., & Özel, S. (2022). Barriers of technology integration in mathematics education. *Mediterranean Journal for Research in Mathematics Education: An International Journal*, 11(1-2), 59-79.
- Ünal, Z. E., Powell, S. R., Özel, S., Scofield, J. E., & Geary, D. C. (2021). Mathematics vocabulary predicts eight graders' mathematics performance in Turkey and the United States. *Learning and Individual Differences*, 92, 1-21. <https://doi.org/10.1016/j.lindif.2021.102061>
- Özmen, N , Özel, S , & Adıgüzel, T . (2020). A Framework for Stem-Focused Lesson Plans: A Meta-Synthesis Study. *Bogazici University Education Journal*, 37(STEM Education Special Issue), 123-154. Retrieved from <https://dergipark.org.tr/tr/pub/buje/issue/58376/842400>
- Küçükler, H., Akaygün, S., İmamoğlu, Y., Aslan Tutak, F., & Özel, S. (2019). The effect of sea and the city summer school on gifted and talented middle school students' attitudes and perceptions towards the sea and the city [Deniz ve kent yaz okulunun özel yetenekli ortaokul öğrencilerinin deniz ve kente yönelik tutum ve algılarına etkisi]. *Fen Bilimleri Öğretimi Dergisi*, 7(2), 189-223. Retrieved from <https://dergipark.org.tr/tr/pub/fbod/issue/71988/1158018>

- Elia, I., Özel, S., Gagatsis, A., Panaoura, A., & Yetkiner-Özel, Z. E. (2016). Students' mathematical work on absolute value: focusing on conceptions, errors and obstacles. *ZDM Mathematics Education*, 48(6), 895-907. <https://doi.org/10.1007/s11858-016-0780-1>
- Özel, S., Yetkiner Özel, Z. E., & Cifuentes, L. D. (2014). Effectiveness of an online manipulative tool and students' technology acceptances. *International Journal of Educational Studies in Mathematics*, 1(1), 1-15. DOI:10.17278/ijesim.2014.01.001
- Matteson, S. M., Zientek, L. R., & Özel, S. (2013). Identifying what in-service teachers want in professional development experiences. *Teacher Education and Practice*, 26(3), 569-580. Retrieved from <https://eric.ed.gov/?id=EJ1044926>
- Yetkiner Özel, Z. E., Özel, S., & Thompson, B. (2013). SES-related mathematics achievement gap in Turkey compared to European Union countries. *Education and Science*, 38(170), 179-193. Retrieved from <http://egitimvebilim.ted.org.tr/index.php/EB/article/view/1689>
- Özel, S. (2013). An analysis of in-service teachers' pedagogical content knowledge of division of fractions. *Anthropologist*, 16(1-2), 1-5.
- Yetkiner Özel, Z. E., & Özel, S. (2013). Mathematics teacher quality: Its distribution and relationship with student achievement in Turkey. *Asia Pacific Education Review*, 14(2), 231-242. <https://doi.org/10.1007/s12564-013-9242-4>
- Zientek, L. R., Yetkiner Özel, Z. E., Özel, S., & Allen, J. (2012). Reporting confidence intervals and effect sizes: Collecting the evidence. *Career and Technical Education Research*, 37(3), 277-295. <https://doi.org/10.5328/cter37.3.277>
- Ölmez, İ. B., & Özel, S. (2012). Mathematics anxiety among sixth and seventh grade Turkish elementary school students. *Procedia – Social and Behavioral Sciences*, 46, 4933-4937. <https://doi.org/10.1016/j.sbspro.2012.06.362>
- Özel, S. (2012). Learning rational numbers: An experimental multi-modal representation approach via technology. *Mediterranean Journal for Research in Mathematics Education: An International Journal*, 11(1-2), 59-79.
- Başol, B., Özel, S., & Özel-Yetkiner, Z. E. (2012). The relationship between reading comprehension competence and word problem comprehension among third-grade students. *Journal of European Education*, 1(1), 1-8.
- Capraro, R. M., Capraro, M. M., Yetkiner, Z. E., Corlu, M. S., Özel, S., Ye, S., & Kim, H. G. (2011). An international perspective on students' understanding of the equal sign. *Mediterranean Journal for Research in Mathematics Education: An International Journal*, 10, 185-211.
- Capraro, R. M., Capraro, M. M., Yetkiner, Z. E., Özel, S., Kim, H. G., & Küçük, A. R. (2010). An international comparison of Grade 6 students' understanding of the equal sign. *Psychological Reports*, 106, 49-53. Doi: <https://doi.org/10.2466/pr0.106.1.49-53>
- Özel, S., Yetkiner, Z. E., & Capraro, R. M. (2008). Technology in k-12 mathematics classrooms. *School Science and Mathematics*, 108, 80-85. Doi: <https://doi.org/10.1111/j.1949-8594.2008.tb17807.x>
- Cifuentes, L., & Özel, S. (2006). Resources for attending to the needs of multicultural learners. *Knowledge Quest*, 35(2), 12-19.
- Erkin, E., Donmez, G., & Özel, S. (2006). Psychometric characteristics of the math anxiety scale. *Education and Science*, 31(140), 26-33.

Book Chapters

- Özel, S., & Babür, N. (2021). Hayat Boyu Öğrenme ve Okuryazarlıklar [Life-Long Learning and Literacies]. In M. Sarıtepeci & H. Yıldız Durak (Eds.). *Dijital Çağda Hayat Boyu Öğrenme [Life-Long Learning in Digital Era]* (pp. 151-184). Türkiye: Pegem Akademi
- Özel, S. (2016). Ölçme, Birim, Nitelik [Measurement, Unit, Characteristics]. In A. N. Elçi, E. Bukova Güzel, B. Cantürk Günhan, & E. Ev Çimen (Eds.), *Temel Matematiksel Kavramlar Ve Uygulamaları: Öğrenenler ve Öğretenler İçin [Basic Mathematics Concepts and Their Applications: For Learners and Educators]* (pp. 231-236). Türkiye: Pegem Akademi
- Olgun, B., & Özel, S. (2016). Olasılık [Probability]. In A. N. Elçi, E. Bukova Güzel, B. Cantürk Günhan, & E. Ev Çimen (Eds.), *Temel Matematiksel Kavramlar Ve Uygulamaları: Öğrenenler ve Öğretenler İçin [Basic Mathematics Concepts and Their Applications: For Learners and Educators]* (pp. 279-296). Türkiye: Pegem Akademi

- Memiş, R., Özel, S., & Özcan, M. (2014). Mathematics teachers' attitudes towards the integration of technology into mathematics classes. In H. Arslan, G. Rata, E. Kocayörük, & M. A. İçbay (Eds.), *Multidisciplinary Perspectives on Education* (pp. 145-152). New Castle, UK: Cambridge Scholars.
- Özel, S., & Yetkiner-Özel, Z. E. (2013). Etkileşimli beyaz tahtalar [Interactive white boards]. In M. Doğan & E. Karakırık (Eds.), *Matematik Eğitiminde Teknoloji Kullanımı [Technology Use in Mathematics Education]* (pp. 377-386). Türkiye: Nobel/Atlas.
- Özel, S. (2012). Utilizing cognitive resources in user interface designs. In B. Khan (Ed.), *User interface design for virtual environments: Challenges and advances* (pp. 115-123). Hershey, PA: IGI Global. Doi: <https://doi.org/10.4018/978-1-61350-516-8.ch007>
- Özel, S., & Özel Yetkiner, Z. E. (2011). Digital book readers. In S. J. Greenwald & J. E. Thomley (Eds.), *Encyclopedia of mathematics and society* (pp. 303-304). Pasadena, CA: Salem Press.
- Özel, S., & Özel Yetkiner, Z. E. (2011). Representations in society. In S. J. Greenwald & J. E. Thomley (Eds.), *Encyclopedia of mathematics and society* (pp. 863-868). Pasadena, CA: Salem Press.
- Özel Yetkiner, Z. E, & Özel, S. (2011). Communication in society. In S. J. Greenwald & J. E. Thomley (Eds.), *Encyclopedia of mathematics and society* (pp. 219-225). Pasadena, CA: Salem Press.
- Özel Yetkiner, Z. E, & Özel, S. (2011). Measurement in society. In S. J. Greenwald & J. E. Thomley (Eds.), *Encyclopedia of mathematics and society* (pp. 640-645). Pasadena, CA: Salem Press.
- Yetkiner, Z. E, & Özel, S. (2010). One-tailed test. In N. J. Salkind (Ed.), *Encyclopedia of research design* (969-971). Thousand Oaks, CA: Sage.
- Stitt, J. R., & Özel, S. (2010). Introduction to Geographical Information Systems (GIS). In R. M. Capraro, M. M. Capraro, J. Morgan, & J. Scheurich (Eds.), *A companion to interdisciplinary STEM project-based learning: For teachers by teachers* (pp. 27-34). Rotterdam, the Netherlands: Sense.
- Stitt, J. R., & Özel, S. (2010). Intro to AutoCAD: Say goodbye to winter. In R. M. Capraro, M. M. Capraro, J. Morgan, & J. Scheurich (Eds.), *A companion to interdisciplinary STEM project-based learning: For teachers by teachers* (pp. 43-48). Rotterdam, the Netherlands: Sense.
- Stitt, J. R., & Özel, S. (2010). Geographical Information Systems (GIS): Define the world as you see it. In R. M. Capraro, M. M. Capraro, J. Morgan, & J. Scheurich (Eds.), *A companion to interdisciplinary STEM project-based learning: For teachers by teachers* (pp. 127-132). Rotterdam, the Netherlands: Sense.
- Stitt, J. R., & Özel, S. (2010). Geographical Information Systems (GIS): Neighborhood project. In R. M. Capraro, M. M. Capraro, J. Morgan, & J. Scheurich (Eds.), *A companion to interdisciplinary STEM project-based learning: For teachers by teachers* (pp. 133-138). Rotterdam, the Netherlands: Sense.
- Stitt, J. R., & Özel, S. (2010). Geographical Information Systems (GIS) and the business models. In R. M. Capraro, M. M. Capraro, J. Morgan, & J. Scheurich (Eds.), *A companion to interdisciplinary STEM project-based learning: For teachers by teachers* (pp. 145-153). Rotterdam, the Netherlands: Sense.
- Stitt, J. R., & Özel, S. (2010). Is our library floor plan conducive for learning? In R. M. Capraro, M. M. Capraro, J. Morgan, & J. Scheurich (Eds.), *A companion to interdisciplinary STEM project-based learning: For teachers by teachers* (pp. 155-161). Rotterdam, the Netherlands: Sense.
- Özel, S., Yetkiner, Z. E., Capraro, R. M., & Kupcu, A. R. (2009). Young adolescent education in Turkey. In S. B. Mertens, V. Anfara, & K. Roney (Eds.), *An international look at educating young adolescent* (pp. 1-23). Charlotte, NC: Information Age.
- Cifuentes, L., & Özel, S. (2009). Using technologies to support STEM project-based learning. In R. M. Capraro & S. W. Slough (Eds.), *Project-based learning: An integrated sciences, technology, engineering, and mathematics (STEM) approach* (pp. 67-78). Rotterdam, the Netherlands: Sense.
- Özel, S. (2009). W³ of STEM PBL. In R. M. Capraro & S. W. Slough (Eds.), *Project-based learning: An integrated sciences, technology, engineering, and mathematics (STEM) approach* (pp. 117-134). Rotterdam, the Netherlands: Sense. doi: https://doi.org/10.1007/978-94-6209-143-6_5

Textbooks

- Bozkurt, A., Tatar, E., Karakuş, F., Atik, H., Aktümen, M., Savaş Eren, R., Özel, S., Kösa, T., Kabaca, T., Güner, Ö., Yıldız, A., Çekmez, E., Kertil, M., Kol, M., Ünlü, A. A., Kocabaş, A., Oruç, A., Yaylı, B., Karataş, C., ... , Alkan, R.¹ (2013). *Ortaöğretim Matematik 9. Sınıf: 1. Kitap [Mathematics for Grade 9: Book 1]* (A. K. Erbaş, B. Çetinkaya, B. Güven, İ. Karataş, & Z. Çinkır, Eds.). Milli Eğitim Bakanlığı Yayınları [Turkish Ministry of National Education].
- Bozkurt, A., Tatar, E., Karakuş, F., Atik, H., Aktümen, M., Savaş Eren, R., Özel, S., Kösa, T., Kabaca, T., Güner, Ö., Yıldız, A., Çekmez, E., Kertil, M., Kol, M., Ünlü, A. A., Kocabaş, A., Oruç, A., Yaylı, B., Karataş, C., ... , Alkan, R.¹ (2013). *Ortaöğretim Matematik 9. Sınıf: 2. Kitap [Mathematics for Grade 9: Book 2]* (A. K. Erbaş, B. Çetinkaya, B. Güven, İ. Karataş, & Z. Çinkır, Eds.). Milli Eğitim Bakanlığı Yayınları [Turkish Ministry of National Education].
- Bozkurt, A., Tatar, E., Karakuş, F., Atik, H., Aktümen, M., Savaş Eren, R., Özel, S., Kösa, T., Kabaca, T., Güner, Ö., Yıldız, A., Çekmez, E., Kertil, M., Kol, M., Ünlü, A. A., Kocabaş, A., Oruç, A., Yaylı, B., Karataş, C., ... , Alkan, R.¹ (2013). *Ortaöğretim Matematik 9. Sınıf: 3. Kitap [Mathematics for Grade 9: Book 3]* (A. K. Erbaş, B. Çetinkaya, B. Güven, İ. Karataş, & Z. Çinkır, Eds.). Milli Eğitim Bakanlığı Yayınları [Turkish Ministry of National Education].

Proceedings

- Corlu, M. S., Kurutas, B. S., & Ozel, S. (2023). Effective Online Professional Development: A Facilitator's Perspective. In M. Ludwig, S. Barlovits, A. Caldeira, & A. Moura (Eds.), *Research on STEM Education in the Digital Age. Proceedings of the ROSEDA Conference* (pp.9-23). WTM. <https://doi.org/10.37626/GA9783959872522.0.02>
- Özel, S., & Yetkiner, Z. E. (2010). Multiple representation perspective and students' acceptance of an online manipulative tool. In J. Sanchez & K. Zhang (Eds.), *Proceedings of E-Learn 2010* (2671-2680). Chesapeake, VA: Association for the Advancement of Computing in Education.
- Adiguzel, T., Zellner, R., & Özel, S. (2006). Revolutionizing reusable adaptive learning objects: Software for cross-platform development and delivery. In E. Pearson & P. Bohman (Eds.), *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2006* (pp. 2048-2053). Chesapeake, VA: Association for the Advancement of Computing in Education.

Translations

- Van de Walle, J. A., Karp, K. S., & Bay-Williams, J. M. (2020). Elementary and middle school mathematics: Teaching developmentally (S. Özel & Z. E. Yetkiner Özel, Trans.). In S. Durmus (Ed.), *Developing whole-number place-value concepts (211-237)*, Ankara, Turkey: Nobel Akademik. (Reprinted from *Elementary and middle school mathematics: Teaching developmentally*, 10th edition, pp. 211-237, by J. A. Van de Walle, K. S. Karp, & J. M. Bay-Williams, 2019, Boston, MA: Pearson)
- Van de Walle, J. A., Karp, K. S., & Bay-Williams, J. M. (2020). Elementary and middle school mathematics: Teaching developmentally (S. Özel, Y. Dede, & Z. E. Yetkiner Özel, Trans.). In S. Durmus (Ed.), *Developing strategies for addition and subtraction computation (238-272)*, Ankara, Turkey: Nobel Akademik. (Reprinted from *Elementary and middle school mathematics: Teaching developmentally*, 10th edition, pp. 238-272, by J. A. Van de Walle, K. S. Karp, & J. M. Bay-Williams, 2019, Boston, MA: Pearson)
- Van de Walle, J. A., Karp, K. S., & Bay-Williams, J. M. (2020). Elementary and middle school mathematics: Teaching developmentally (Y. Dede, S. Özel, & Z. E. Yetkiner Özel, Trans.). In S. Durmus (Ed.), *Developing strategies for multiplication and division computation (273-298)*, Ankara, Turkey: Nobel Akademik. (Reprinted from *Elementary and middle school mathematics: Teaching developmentally*, 10th edition, pp. 273-298, by J. A. Van de Walle, K. S. Karp, & J. M. Bay-Williams, 2019, Boston, MA: Pearson)

¹ Equal authorship

- Van de Walle, J. A., Karp, K. S., & Bay-Williams, J. M. (2020). Elementary and middle school mathematics: Teaching developmentally (B. S. Kurutas, S. Özel, & Z. E. Yetkiner Özel, Trans.). In S. Durmus (Ed.), *Developing fraction concepts (337-372)*, Ankara, Turkey: Nobel Akademik. (Reprinted from *Elementary and middle school mathematics: Teaching developmentally*, 10th edition, pp. 337-372, by J. A. Van de Walle, K. S. Karp, & J. M. Bay-Williams, 2019, Boston, MA: Pearson)
- Burton, D. M. (2018). The history of mathematics: An introduction (C. Güneş & S. Özel, Trans.). In S. Durmuş (Ed.), *Renaissance of Mathematics: Cardan and Tartaglia (301-336)*, Ankara, Turkey: Nobel Akademik. (Reprinted from The history of mathematics: An introduction, pp. 301-336, by D. M. Burton, 2011, Columbus, OH: McGraw Hill)
- Nitko, A. J., & Bookhart, S. M. (2016). Educational assessment of students (B. Bıçak & S. Özel, Trans.). In B. Bıçak, M. Bahar, & S. Özel (Eds.), *Validity of Assessment Results (34-62)*, Ankara, Turkey: Nobel Akademik. (Reprinted from *Educational assessment of students*, pp. 34-62, by A. J. Nitko, & S. M. Bookhart, 2011, Boston, MA: Allyn & Bacon)
- Nitko, A. J., & Bookhart, S. M. (2016). Educational assessment of students (S. Özel, Trans.). In B. Bıçak, M. Bahar, & S. Özel (Eds.), *Planning for Integrating Assessment and Instruction (105-129)*, Ankara, Turkey: Nobel Akademik. (Reprinted from *Educational assessment of students*, pp. 105-129, by A. J. Nitko, & S. M. Bookhart, 2011, Boston, MA: Allyn & Bacon)
- Nitko, A. J., & Bookhart, S. M. (2016). Educational assessment of students (S. Özel, Trans.). In B. Bıçak, M. Bahar, & S. Özel (Eds.), *Diagnostic and Formative Assessments (130-149)*, Ankara, Turkey: Nobel Akademik. (Reprinted from *Educational assessment of students*, pp. 130-149, by A. J. Nitko, & S. M. Bookhart, 2011, Boston, MA: Allyn & Bacon)
- Van de Walle, J. A., Karp, K. S., & Bay-Williams, J. M. (2012). Elementary and middle school mathematics: Teaching developmentally (S. Özel & Z. E. Yetkiner Özel, Trans.). In S. Durmus (Ed.), *Developing strategies for fraction computation (309-327)*, Ankara, Turkey: Nobel Akademik. (Reprinted from *Elementary and middle school mathematics: Teaching developmentally*, pp. 309-327, by J. A. Van de Walle, K. S. Karp, & J. M. Bay-Williams, 2010, Boston, MA: Pearson)
- Van de Walle, J. A., Karp, K. S., & Bay-Williams, J. M. (2012). Elementary and middle school mathematics: Teaching developmentally (S. Özel & Z. E. Yetkiner Özel, Trans.). In S. Durmus (Ed.), *Developing fraction concepts (286-308)*, Ankara, Turkey: Nobel Akademik. (Reprinted from *Elementary and middle school mathematics: Teaching developmentally*, pp. 286-308, by J. A. Van de Walle, K. S. Karp, & J. M. Bay-Williams, 2010, Boston, MA: Pearson)
- Van de Walle, J. A., Karp, K. S., & Bay-Williams, J. M. (2012). Elementary and middle school mathematics: Teaching developmentally (S. Özel & Z. E. Yetkiner Özel, Trans.). In S. Durmus (Ed.), *Developing strategies for whole-number computation (213-239)*, Ankara, Turkey: Nobel Akademik. (Reprinted from *Elementary and middle school mathematics: Teaching developmentally*, pp. 213-239, by J. A. Van de Walle, K. S. Karp, & J. M. Bay-Williams, 2010, Boston, MA: Pearson)
- Van de Walle, J. A., Karp, K. S., & Bay-Williams, J. M. (2012). Elementary and middle school mathematics: Teaching developmentally (S. Özel & Z. E. Yetkiner Özel, Trans.). In S. Durmus (Ed.), *Developing whole-number place-value concepts (187-212)*, Ankara, Turkey: Nobel Akademik. (Reprinted from *Elementary and middle school mathematics: Teaching developmentally*, pp. 187-212, by J. A. Van de Walle, K. S. Karp, & J. M. Bay-Williams, 2010, Boston, MA: Pearson)

GRANTS AND FUNDED PROJECTS

PI, Scientific and Technological Research Council of Turkey (TUBITAK 1001) (Grant #: 124K343): "Investigation of Abstraction Knowledge in Repeating Pattern for 4-6 year-old Children and Development of Online Repeating Pattern Assessment" (2025-2026) ₺1,106,600.

PI, Bogzici University & TEKFEN (Grant # 24D3TFV1): "Exploring the Impact of a Computational Thinking Program on Middle Grade Students' Computational Thinking and Problem-Solving Skill and Motivation and Enthusiasm for Learning" (2024-2025) ₺132,000.

Researcher, National Science Foundation EHR Core Research (NSF ECR) Program (Grant #: 2201964): “Collaborative Research: A Multi-Lab Investigation of the Conceptual Foundations of Early Number Development” (2022-2026) \$552,712. PI: Elizabeth Gunderson

PI, Scientific and Technological Research Council of Turkey (TUBITAK 2219) (Grant #: 1059B191802263): “Mathematical Skills at Early Childhood: A Cognitive Perspective to Pattern Learning” (2019-2021) \$30,000.

PI, Mother Child Education Foundation (ACEV): “Developing Early STEM Educational Program” (2019) ₺10,000.

PI, Turkish Aerospace Industries (TAI): “Implementation of STEM Education in Elementary Schools” (2018-Present) ₺1,000,000.

PI, Turkcell Telecommunication and Technology Services Provider: “Adaptation of Online and Mobile Learning Platform: DQ World” (2018). ₺160,000.

PI, “Experiencing and Learning the Cultural Heritage of My Country and My City Istanbul and Sharing it with my Friends”
Multiple funders:

- Bogazici University (2012) ₺50,000
- Vehbi Koc Foundation (2013) ₺40,000
- Besiktas Municipality (2012-2016) ₺120,000

Partner, Erasmus+ Strategic Partnership for School Education (KA201) (Grant # 2020-1-TR01-KA201-094513): “Edutainment in Math Teaching for Solution of Real-life Problems” (2020) €167,000. **Reserve List (Score: 78).**

Researcher, Institute of Education Sciences (IES) (Grant # R305A160132): “Exploring the Roles of Pattern and Spatial Skills in Early Mathematics Development” (PI: Bethany Rittle-Johnson at Vanderbilt University) (2019-2021).

Researcher, Bogazici University Scientific Research Projects (BAP) (Grant # 11220): “Development of the Progressive Incorporation Perspective Among Prospective Secondary School Math Teacher Candidates Effective Math Teaching” (2017-2019) ₺35,000.

Researcher, Scientific and Technological Research Council of Turkey (TUBITAK 4004) (Grant #: 218B086): “Children of the Bosphorus Designs the City of the Future” (2019) ₺50,000.

Researcher, Scientific and Technological Research Council of Turkey (TUBITAK 4004) (Grant #: 117B083): “Children of the City Explore It Through Sea II” (2017) ₺50,000.

Researcher, Scientific and Technological Research Council of Turkey (TUBITAK 4004) (Grant #: 116B417): “Children of the City Explore It Through Sea I” (2016) ₺50,000.

Educational Consultant, Bank of America: “Youth Online Design Academy” (2021-2022)

Educational Consultant, Lloyd’s Register Foundation (LRF) (Grant # GA\100130): “STE(A)Ming Ahead with Maker Spaces” (2019-2022) £200,596.

Educational Consultant, Lenovo: “Algo Digital Informatics Program” (2021-2024).

Educational Consultant, Turkish Petroleum Refineries Corporation (TUPRAS): “Our Children Our Energy: A Maker Project” (2019-2022) ₺2,000,000.

Specialist, European Union Electronic Platform for Adult Learning in Europe National Support Service (EU EPALE NSS) (Grant # 2015-3218/001-001): “EPALE Adult Education Competencies” (2016)

Researcher, Scientific and Technological Research Council of Turkey (TUBITAK 1007): “Developing National Individualized Intelligence and Aptitude Test” (2015). **Not sponsored (Finalist).**

Expert, EuropeAid External Aid Programmes (Grant # EuropeAid/128640/D/SER/TR - TR0801.05-01/001 - 2011/S 94-152822): “Turkey – Technical Assistance for Strengthening the Special Education (TASSE)” (2014). € 5,694,500.00

Partner, European Union Lifelong Learning Programme Comenius (EU LLP Comenius) (Grant # 2014-CY01-KA201-3): “Improving the Teaching of Geometry in Europe Through Spatial Ability Support” (2014). **Not sponsored (Score: 78.5)**

Researcher, Scientific and Technological Research Council of Turkey (TUBITAK 4004) (Grant #: 112B254): “Mersin Children University: Who Afraid from Math” (2012) ₺40,000.

PRESS APPEARANCES

- Columnist, Hurriyet (<https://www.hurriyet.com.tr>), Newspaper, Turkey
Wrote weekly column on technology in education –(2020-2021)
- Bogazici University Alumni Association Magazine, Turkey
New dimensions of learning in the digitizing world – 2021, Issue: 246
- Pleasant Meetings in Virtual Environments (Sanal Ortamlarda Keyifli Buluşmalar), Podcast, Hurriyet, Newspaper –
March 29, 2021
- Tebeşir – Mektepli News (https://mektepligazete.com/public/file/bulten/mektepli-bulten_sayi9.pdf),
Newspaper, Turkey **January 2021**
STEM Education: A Global to National Perspective
- Açık Radyo (Open Radio), Regional Radio Station, Turkey
Four interviews on the effect of Covid-19 and the future of education
Kavanozdaki Yıldız (Star in the Jar) – October 23, 2020 - <https://acikradyo.com.tr/podcast/226154>
Kavanozdaki Yıldız (Star in the Jar) – October 16, 2020 - <https://acikradyo.com.tr/podcast/226065>
Kavanozdaki Yıldız (Star in the Jar) – October 9, 2020 - <https://acikradyo.com.tr/podcast/225965>
Kavanozdaki Yıldız (Star in the Jar) – October 2, 2020 - <https://acikradyo.com.tr/podcast/225881>
- Commentary, Hurriyet, Newspaper, Turkey
Neuralink: Two sides of the coin – September 7, 2020
- Commentary, Hurriyet, Newspaper, Turkey
Technologies that can help children in distance education – August 19, 2020
- Interview, Bogazici University News, Turkey
The share for teachers, students and parents in distance education – May 22, 2020
- Interview, Hurriyet, Newspaper, Turkey
How Covid-19 affected education – May 22, 2020
- Commentary, Hurriyet, Newspaper, Turkey
Ones who make difference in education series – January 15, 2017
- Interview, [@2anne1mutfak](#) Instagram/Facebook Broadcast, Turkey
Social Media Posts for Adults and Children – October 9, 2017
- Interview, [@2anne1mutfak](#) Instagram/Facebook Broadcast, Turkey
What should parents be careful about virtual safety and security? – September 25, 2017
- Interview, Digital Media and Child – YouTube TV of Bilgi University, Turkey
Use of Digital Media in Education – November 23, 2016

PROFESSIONAL SERVICE

- *Academic Coordinator for K-12 Mathematics Curriculum Reform*, Ministry of National Education of Turkey (2023-2023)
- *Content Specialist*, The National Measuring, Selection and Placement Center of Turkey (2017-Present)
- *Reviewer*, Mathematics Textbook Review Panel – Ministry of National Education (2016-2018)
- *Member*, Project Review Panel - Scientific and Technological Research Council of Turkey (TUBITAK) (2012-2021)
- *Member* - Executive Committee of Student Information and Registration Systems (2018-2020)
- *Member* - Executive Committee of Staff Promotions (2012-2020)
- *Member* - Executive Committee of Data Security and Personal Data Protection (2012-2020)
- *Local Organizing & Scientific Committee Member* - Asian Technology Conference in Mathematics (2011)
- *Journal/Conference Proposal Reviewer*
 - Learning and Individual Differences
 - Journal of Research in Technical Careers

- Eurasian Journal of Educational Research
- Bogazici University Journal of Education
- Mathematics Education
- SAGE Open
- International Journal of Educational Studies in Mathematics (IJESIM)
- Education and Science
- Hacettepe University Journal of Education
 - Turkish Journal of Computer and Mathematics Education (TURCOMAT)
- Educational Sciences: Theory & Practice (ESTP)
- MAT-DER Matematik Eğitimi Dergisi [Mathematics Education Journal]
- School Science and Mathematics Journal (SSMJ)
- Southwest Educational Research Association (SERA)
- Association for Educational Communications and Technology (AECT)

CONFERENCE PRESENTATIONS (SELECTED)

- Yıldırım, B. F., Pesen, M., Özgünlü, M., Şanlı Karmaz, B., Şeker, V., Msall, C., **Özel, S.**, & Rittle-Johnson, B. (2024, April 11-14). *Visual Support and Pattern Knowledge: A Study on Preschool Children in the U.S. and Turkey*. Poster presented at American Educational Research Association (AERA) 2024 Annual Meeting, Philadelphia, PA, USA. <https://doi.org/10.3102/IP.24.2108339>
- Özel, S., Ataş, B., Ayaz, B. Ş., Aydın, Z., & Vatanserver, E. (2024, September 4-7). *The impact of "Projects for Environment and Nature Awareness" (P.E.N.A.) on middle school students' attitudes toward the environment and the relationship between creativity and environmental attitudes*. Paper presented at the National Science and Mathematics Education Congress, Edirne, Turkey.
- Özel, S. (2024, May 11-12). *A new learning experience through an introduction to data science in middle and high school mathematics courses*. Invited workshop conducted at the 2nd Conference on Exemplary Practices in Mathematics Teaching, Zonguldak, Turkey.
- Pesen M., Özgünlü, M., B., Yıldırım, B., Şanlı Karmaz, Şeker V., & Özel S. (2023, October). The Impact of Animated Intervention on Early Patterning Assessment. Paper presented at the 6th International Symposium of Turkish Computer and Mathematics Education (TURCOMAT-6), Ankara.
- Şanlı Karmaz, B., Yıldırım, B., Pesen M., Şeker V., Özgünlü, M., Özel S., & Metindogan, A. (2023, October). Unpacking The Interplay Between Executive Functions And Patterning Skills In Children Aged 4-7: Age Effects And Cognitive Associations. Paper presented at the 6th International Symposium of Turkish Computer and Mathematics Education (TURCOMAT-6), Ankara.
- Şanlı Karmaz, B., Yıldırım, B., Pesen M., Şeker V., Özgünlü, M., Özel S., & Metindogan, A. (2023, May). Unpacking The Interplay Between Executive Functions And Patterning Skills In Children Aged 4-7: Age Effects And Cognitive Associations. Paper presented at the 4th International Conference on Science, Mathematics, Entrepreneurship and Technology Education.
- Özel, S. (2023, January). Teaching Problem-Oriented Thinking and Project Cycle to Children from Disadvantages Neighborhood through Voluntary Young Adults. Paper presented at the Budapest CEU Conference on Cognitive Development, Budapest.
- Özel S., Özgünlü, M., Pesen M., Şanlı Karmaz, B., Şeker V., & Yıldırım, B. (2022, November). Measuring Math Development and Patterning Ability in Early Childhood. Invited panelist at the 4th International Turkish World Congress of Educational Sciences and Social Sciences.
- Özel S. (2022, November). Community as Part of Education: Teaching Problem-Oriented Thinking and Project Cycle to Children from Disadvantages Neighborhood through Voluntary Young Adults. Paper presented at the 20th International Primary Teacher Education Symposium.
- Özel S. (2022, September). Teaching Problem-Oriented Thinking and Project Cycle to Children from Disadvantaged Neighborhoods through Voluntary Young Adults. Paper presented at the 3rd International Science, Education, Art & Technology Symposium.

- Kaufman, J., Douglas, A., Camille, M., Özel, S., & Rittle-Johnson, B. (2022, April). Measuring Preschoolers' and Kindergarteners' Understanding of Different Types of Patterns. Paper presented online at the bi-ennial conference of Cognitive Development Society. <https://cogdevsoc.org/wp-content/uploads/2022/04/CDS2022AbstractBook.pdf>
- Kaufman, J., Douglas, A., Camille, M., Özel, S., & Rittle-Johnson, B. (2021, September). Measuring Preschoolers' and Kindergarteners' Understanding of Different Types of Patterns. Paper presented online at the annual meeting of Society for Research on Educational Effectiveness 2021 Conference: The Fierce Urgency of Knowledge: Education Evidence for Reimagining and Reckoning. <https://sree.confex.com/sree/2021/meetingapp.cgi/Paper/2875>
- Özel, S. (2021, February). Effectiveness of Maker STE(A)M Program on 8-14 Years-Old Students' Perception of Their Problem-Solving Skills. Paper presented online at the annual meeting of Southwest Educational Research Association.
- Saglam, H., Yerdelen-Damar, S., & Özel, S. (2021, May). Systematic Review of Quantitative Studies Measuring Pedagogical Content Knowledge in the Context of Science Education. Paper presented online at the 14th National Science and Mathematics Education Congress.
- Akar-Karagöz, G., Bukova-Güzel, E., & Özel, S. (2019, February). Prospective Secondary Mathematics Teachers' Development of Core-Practices During Methods Courses: Affordances of Quantitative Reasoning. In: U. T. Jankvist, M. van den Heuvel-Panhuizen, & M. Veldhuis (Eds.), *Proceedings of the Eleventh Congress of the European Society for Research in Mathematics Education*, (pp. xxxx-yyyy). Utrecht, the Netherlands: Freudenthal Group & Freudenthal Institute, Utrecht University and ERME.
- Güneş, C., & Özel, S. (2019, April). *Teacher Engagement in Online Professional Development Follow-Up: The Role of the Workplace and ICT Familiarity*. Paper presented at AERA Annual Meeting, Toronto, Canada.
- Sülün Taş, A., Özel, S., & Yetkiner, E. Z. (2016, July). *The effect of mathematics online review sessions through a webcast system on 5th-grade students' mathematics achievement*. Paper presented at the 13th conference of International Congress on Mathematical Education, Hamburg, Germany.
- Özel, S., Yetkiner Özel, Z. E., Zientek, L. R., & Cory, B. (2014, September). Pre-service teachers' Van Hiele geometric understanding levels: US and Turkey comparison. Panel presented at XI National Science and Mathematics Education Congress, Adana, Turkey.
- Özel, S., Yetkiner Özel, Z. E., Başol, B., Erdik, E., Eren, M., & Ölmez, İ. B. (2012, September). A Content Analysis of Gender Roles in Turkish Mathematics Textbooks. Paper presented at MEDCONF 2012: 7th Mediterranean Conference on Mathematics Education, Nicosia, Cyprus.
- Matteson, S. M., Zientek, L. R., Özel, S., & Yetkiner, Z. E. (2012, February). *Next Steps in Professional Development for Mathematics Teacher*. Paper presented at the annual meeting of Southwest Educational Research Association, New Orleans, LA.
- Özel, S., & Yetkiner, Z. E. (2010, October). *Multiple Representation Perspective and Students' Acceptance of an Online Manipulative Tool*. Paper presented at E-Learn, Orlando, FL.
- Yetkiner, E. Z., & Özel, S. (2009, April). *Turkish middle school students' perspective on the equal sign*. Paper presented at the American Educational Research Association, San Diego, CA.
- Özel, S., Capraro, R. M., & Yetkiner, E. Z. (2008, July). *A technology intervention using multiple representations on mathematics*. Paper presented at the 11th conference of International Congress on Mathematical Education, Monterrey, Mexico.
- Özel, S. (2008, June). *A virtual environment with multiple representations to teach fractions*. Paper presented at the AECT Research Symposia, Instructional Design for Complex Learning: Exploring the Issues, Bloomington, Indiana.
- Zellner, R., Adiguzel, T., & Özel, S. (2006, October). *Digitized video research tools: Integrated resources for data collection, content analyses, and transcription*. Paper presented at the annual meeting of the Association for Educational Communications and Technology, Dallas, TX.
- Zellner, R., Peden, E., Özel, S., & Adiguzel, T. (2005, October) *Embedded video: Creating, managing, accessing, and optimizing the resource in digitized video*. A concurrent session for the International Association for Educational Communications and Technology, Orlando, FL.

WORKSHOPS AND SEMINARS DELIVERED (SELECTED)

August 2022, 2022	3-day – <i>Introduction to Data Sciences</i> – High School Students
June 2022, 2022	3-day – <i>Introduction to Data Sciences</i> – High School Students
February 2021, 2022	3-day – <i>Introduction to Data Sciences</i> – High School Students
September 2020	2-hour seminar – <i>Effective Teaching Techniques in Distance Education, Responsibilities of Students and Faculty Members</i> – Izmir Institute of Technology, Turkey, Invited Speaker
April 2019	1-day – <i>STEM Education in Early Years</i> – Tekirdag Early Childhood Summit – Invited Speaker
October 2018	1-day – <i>Math and Science Education Workshop – How to write questions to measure higher-order thinking</i>
October 2018	<i>LEGO Preschool Conference</i> – Bogazici University – Chair of the organizing committee and Keynote Speaker
February 2018	1- day – <i>Problem Solving and Teaming</i> – Turk Telekom
Oct 2017- Jun 2018	16-day – <i>Measurement and Evaluation for K-6 Teachers. The seminar designed for MEC Schools.</i>
Oct 2017- Oct 2018	30-hour – <i>STEM Education for K-12 Teachers. The seminar designed for TED Bodrum Schools.</i>
December 2017	3-day – <i>Trainer of the Trainers</i> - International Organization for Migration & Turkish Coast Guard Command
September 2017	<i>The future of professions</i> – Invited Speaker – Beylikduzu Municipality, Istanbul, Turkey
May-Jun 2017	30-hour - <i>Differentiated Instruction for Preschool Teachers</i> 30-hour – <i>Measurement and Evaluation for Preschool Teachers</i> Academic coordinator of the 100-hour PD seminars.
2015-2018	3-day - <i>Technology Integration and STEM Education</i> 1-day – <i>Mathematical Thinking</i> 1-day – <i>Measurement and Evaluation</i> 1-day – <i>Question Focus</i> Academic coordinator of the 16-day PD seminars. Totally 22 groups of primary school teachers.
2016-2018	2-day - <i>Measurement and Evaluation</i> 1-day – <i>Mathematical Thinking and Questioning</i> Academic coordinator of the 16-day PD seminars. Totally 4 groups of preschool school teachers.
August 2015	<i>Applying 5E model in middle school science according to the STEM education principles</i> <i>An invited presentation at the STEM Education Approach: Empowering Science Classes with an Interdisciplinary Connections - 4005 TÜBİTAK Project. Sinop University, Sinop, Turkey. [8 contact hours of PD]</i>
May 2015	<i>STEM Education Model and Exemplary Practices.</i> Turkish Computer and Mathematics Education (BILMAT) Symposium, Adiyaman.
August 2013	Assessment and Evaluation – Erzurum (Ministry of National Education) One week seminar is delivered to 300+ teachers from different disciplines.
November 2012	Features of GeoGebra - Bahçeşehir University <i>The one-day workshop is delivered to graduate students and faculty members of the Mathematics Department at Bahceshir University to introduce GeoGebra and its college level applications.</i>
October 2012	Introduction to Geometer’s Sketchpad – Bahçeşehir University <i>The one-day workshop is delivered to graduate students and faculty members of the Mathematics Department at Bahcesehir University to introduce GSP and its college level applications.</i>
September 2012	Geometry with Geometer’s Sketchpad - Mersin <i>The workshop is delivered to 7th grade students to teach geometrical concepts using GSP by simulating a carousel. It is designed for a TÜBİTAK project called “Who is Afraid of Math”</i>

TEACHING EXPERIENCE

Undergraduate Level Courses

Academic Orientation for Math and Science Teachers
Teaching Geometry
Teaching Mathematics II
Research Methods in Math and Science Education
Computer Assisted Mathematics Teaching
Applied Research in Mathematics and Science Education
School Experience in Teaching Mathematics and Science
Instructional Design and Material Development

Graduate Level Courses

Advanced Quantitative Research Methods
Learning Environment in Primary Math and Science
Guided Reading in Primary Education
Special Topic: Current Trends in STEM Education
Special Topic: Textbook Analysis
Advanced Quantitative Methods
Applied Advanced Statistics (**Doctorate**)
Advanced Quantitative Research in Learning Sciences
(**Doctorate**)

GRADUATE ADVISING (*graduates*)

Terzi, Züleyha (Chair)	Kurutaş, B. Sümeyye ² (chair)	Parmak, Zeynep ² (member)
Yalvaç, Beyzanur (Chair)	Orman Feyzullah ² (member)	Çeken, Burç ² (co-chair)
Kamit, Tayfun (Chair)	Yıldırım, Kubra ² (member)	Sülün Taş, Aysun ² (chair)
Yıldırım, Betül (Chair)	Başkesen, Berna ² (chair)	Misir, Emin ² (member)
Atıcı, Derya (Chair)	Öztekin, Utku ² (chair)	Sahin, Fusun ² (member)
Uysal, Yağmur ³ (Chair)	Akdemir, Z. Gonca ² (chair)	Erdogan, Nazmi ² (member)
Sağlam, Havva ³ (Chair)	Arabaci, Nil ² (member)	Eren, Mehmet ² (chair)
Aydoğan, Sabri ² (chair)	Güneş, Canan ² (chair)	Tekin, Sebnem ² (member)
Atabas, Umran ²³ (member)	Özgür Küçük, Neriman ² (chair)	Deren, Munevver ² (member)
Caner, Fatma ²³ (member)	Ceken, Burc ² (member)	Aşık, Merve ² (chair)
Çaksen, Beyzanur ² (chair)	Kutbay, Ekrem ² (member)	

OTHER EMPLOYEMENT

- Instructor, MEF University, Instructional Technology & Material Design (Spring 2015, Spring 2017, Spring 2018).
- Instructor, Fatih University, Research Methods in Education (Spring 2014).
- Third Lieutenant, Turkish Army, Military Service (Mandatory), worked as a mathematics and geometry teacher (Grades 6-12), Artvin, Turkey (2009-2010)
- Professional Development Provider for K-12 Teachers, Waco and Dallas ISDs, Texas, USA. Developed and implemented project-based STEM PDs to middle and high school teachers. (2005-2009)
- Graduate Research Assistant
 - Aggie-STEM Center, Texas A&M University, College Station, TX, USA (2005-2009)
 - MTC (Mathematics TEKS Connections), Texas A&M University (2005-2006)
 - Educational Technology, Texas A&M University (2004-2005)

² Completed

³ Ph.D.

- Instructional Designer, ENOCTA (Arthur Andersen, Avez, Probil) Educational Counseling, Istanbul, Turkey (2002).
- Scenario Developer for a Scientific Software, Secondary School Science and Mathematics Education, Bogazici University, Istanbul, Turkey (2000-2001).