

Assoc. Prof. AYŞE YOLCU

Personal Information

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International Researcher IDs

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Yoksis Researcher ID: 131922

Education Information

Doctorate, University of Wisconsin-Madison, Graduate School, Curriculum And Instruction, United States Of America

2013 - 2017

Postgraduate, Middle East Technical University, Graduate School Of Social Sciences, İlköğretim Fen Ve Matematik Eğitimi

Anabilim Dalı, Turkey 2010 - 2012

Undergraduate Minor, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Sociology, Turkey

2008 - 2010

Undergraduate, Middle East Technical University, Faculty Of Education, Mathematics And Science Education, Turkey 2005

- 2010

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Modeling in Mathematics Education: A Historical Encounter with Mathematics, Ability and Body, University Of

Wisconsin-Madison, Eğitim Programları Ve Öğretim, Matematik Eğitimi, 2017

Postgraduate, An investigation of eighth grade students statistical literacy, attitudes towards statistics and their

relationship, Orta Doğu Teknik Üniversitesi, Sosyal Bilimler Enstitüsü, İlköğretim Fen Ve Matematik Eğitimi Anabilim Dalı,

2012

Research Areas

Social Sciences and Humanities, Education, Educational Sciences, Social and Historical Foundations of Educations, Curriculum Development and Teaching Methods, Teacher Training For Elementary Sch. Edu. in Mathematics, Teacher Training, Mathematics, Mathematics Education, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Hacettepe University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2022 - Continues

Research Assistant PhD, Hacettepe University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2017 - 2022

Research Assistant, Hacettepe University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2011 - 2017

Courses

Doctorate

Project Work in Mathematics Education I, Doctorate, 2024 - 2025

Ethnomathematics, Doctorate, 2022 - 2023

Postgraduate

Mathematics Curriculum in Turkey and in the World, Postgraduate, 2022 - 2023

Readings in Mathematics Education, Postgraduate, 2023 - 2024

Undergraduate

Information Technologies, Undergraduate, 2023 - 2024

Culture and Mathematics, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Matematik Öğrenme ve Öğretim Yaklaşımları, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

History of Mathematics, Undergraduate, 2022 - 2023, 2021 - 2022

Teaching Probability and Statistics, Undergraduate, 2020 - 2021

Teaching Elementary School Mathematics, Undergraduate, 2019 - 2020, 2018 - 2019

Matematik Tarihi, Undergraduate, 2018 - 2019

Öğretmenlik Uygulaması, Undergraduate, 2017 - 2018

Ortaokul Matematik Dersi Öğretim Programı, Undergraduate, 2017 - 2018

Topluma Hizmet Uygulamaları, Undergraduate, 2017 - 2018

Okul Deneyimi, Undergraduate, 2018 - 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Social (justice) mathematics: racializing effects of ordering pedagogies and their inherited regimes of truth**
Yolcu A., Kirchgasser K. L.
Educational Studies in Mathematics, 2024 (SSCI)
- II. **"Real-Life Needs": How Humanitarian Techniques Produce Hierarchies of Science and Mathematics Education**
Kirchgasser K. L., Yolcu A.
TEACHERS COLLEGE RECORD, vol.124, no.11, pp.30-57, 2022 (SSCI)
- III. **Fluid identities for equitable mathematics teaching: narrative analysis of prospective teachers' foregrounds**
Yolcu A.
TEACHERS AND TEACHING, vol.27, no.1-4, pp.82-94, 2021 (SSCI)
- IV. **Turkey's Problem-Solving Child: A Historical Analysis of the Cultural Spaces of Mathematics Education**
Yolcu A.
EGITIM VE BILIM-EDUCATION AND SCIENCE, vol.46, no.206, pp.27-46, 2021 (SSCI)
- V. **Making the able body: school mathematics as a cultural practice**
Yolcu A., Popkewitz T. S.
ZDM-MATHEMATICS EDUCATION, vol.51, no.2, pp.251-261, 2019 (SSCI)

Articles Published in Other Journals

- I. **Okullarda Neden Matematik Öğretiliyor? İlkokul Matematik Dersi Programı Genel Amaçlarının Tarihsel Çözümlemesi (1926-2018)**
Yolcu A.
Türk Eğitim Bilimleri Dergisi, vol.20, no.3, pp.762-786, 2022 (Peer-Reviewed Journal)
- II. **Kültürel çeşitlilik gösteren öğrencilerin matematik öğrenme fırsatları: Sınıf ve ortaokul matematik öğretmenlerinin bakış açıları ve pedagojik stratejileri**
Yolcu A., Doğan M. F.
Buca Eğitim Fakültesi Dergisi, vol.53, pp.390-408, 2022 (Peer-Reviewed Journal)
- III. **Using Popular Films in History of Mathematics Courses: Reflections from Prospective Mathematics Teachers**
YOLCU A.
Adıyaman Üniversitesi Eğitim Bilimleri Dergisi, vol.12, no.1, pp.14-24, 2022 (Peer-Reviewed Journal)
- IV. **Reimagining the citizen and the nation in a globalised world: the case of mathematics education reforms in Turkey**
YOLCU A.
Research in Mathematics Education, vol.23, no.3, pp.278-292, 2021 (ESCI)
- V. **A Primary School Teacher's Journey on Using Drama Method in the Classroom: Collaborative Action Research Model**
AKKOCAOĞLU ÇAYIR N., YOLCU A.
International Journal of Progressive Education, vol.17, no.5, pp.152-169, 2021 (Peer-Reviewed Journal)
- VI. **Mathematics for "citizenship" and its "other" in a "global" world: critical issues on mathematics education, globalisation and local communities**
Chronaki A., Yolcu A.
RESEARCH IN MATHEMATICS EDUCATION, vol.23, no.3, pp.241-247, 2021 (ESCI)
- VII. **Matematik eğitiminde çokkültürlülük**
Yolcu A.
APSİSTEK Aylık Matematik Dergisi, no.3, 2020 (Non Peer-Reviewed Journal)
- VIII. **Context and Implications Document for: Research on equitable mathematics teaching practices: Insights into its divergences and convergences**
YOLCU A.
REVIEW OF EDUCATION, vol.7, no.3, pp.731-732, 2019 (ESCI)
- IX. **Research on equitable mathematics teaching practices: Insights into its divergences and convergences**
YOLCU A.
REVIEW OF EDUCATION, vol.7, no.3, pp.701-730, 2019 (ESCI)
- X. **Middle school students' statistical literacy: Role of grade level and gender**
YOLCU A.
Statistics Education Research Journal, vol.13, no.2, pp.118-131, 2014 (Scopus)

Books

- I. **Troubling notions of global citizenship and diversity in mathematics education**
Chronaki A. (Editor), Yolcu A. (Editor)
Routledge, London/New York, London, 2025
- II. **Introduction: Rethinking Citizenship Enactment for Mathematics Education**
Chronaki A., Yolcu A.
in: Troubling Notions of Global Citizenship and Diversity in Mathematics Education, Chronaki Anna, YOLCU AYŞE, Editor, Routledge, London, pp.1-16, 2025
- III. **Travellings of mathematically able bodies to Turkey: Configurations of paradoxical unities of**

(non)citizens across historical, national and global contexts

Yolcu A.

in: Troubling Notions of Global Citizenship and Diversity in Mathematics Education, Chronaki Anna, YOLCU AYŞE, Editor, Routledge, London, pp.153-169, 2025

- IV. **Matematik Hazırlık Sınıfı Ders Kitabı**
Erdoğan A. (Editor), Durmuş S. (Editor), Yaman H. (Editor), Yolcu A. (Editor), Yılmaz N. (Editor)
MEB, Ankara, 2024
- V. **Matematik 9. Sınıf Ders Kitabı**
Erdoğan A. (Editor), Durmuş S. (Editor), Yaman H. (Editor), Yolcu A. (Editor), Yılmaz N. (Editor)
MEB, Ankara, 2024
- VI. **Being prepared for diverse classrooms: boundaries of professional devices and the dangers of inclusive teaching**
Yolcu A.
in: The making of teachers in the age of migration: Critical perspectives on the politics of education for refugees, immigrants and minorities, Sabine Krause, Michelle Proyer, Gertraud Kremsner, Editor, Bloomsbury Press, London, pp.32-48, 2023
- VII. **Öğretmenleri kültürel çeşitlilik gösteren sınıflara hazırlamak: Adil matematik eğitimi perspektifi**
YOLCU A.
in: Cumhuriyet'in 100. yılında öğretmenlik mesleği: Dünü, bugünü ve yarını, ERÇETİN ŞEFİKA ŞULE, DAĞHAN GÖKHAN, Editor, Nobel Akademi, Ankara, pp.321-331, 2023
- VIII. **Kültürel olarak duyarlı matematik etkinlikleri**
YOLCU A.
in: Matematik Eğitiminde Etkinlikler ve Uygulamaları, Dede, Y; Doğan, M. F.; Aslan-Tutak, F., Editor, Pegem Akademi, Ankara, pp.467-487, 2020
- IX. **Promoting Equitable Systems in Mathematics Education Starts with Us: Linking Literature on Allywork to the Work of Mathematics Teacher Educators**
LopezLevia C., Herbel-Eisemann B., YOLCU A.
in: Toward Equity and Social Justice in Mathematics Education, Tonya Bartell, Editor, Springer, Cham, pp.77-98, 2018

Papers Published in Refereed Scientific Meetings

- I. **Reconceptualizing opportunities to learn mathematics through postfoundational theories**
Yolcu A., Yetkin Özdemir İ. E., Çelebi E. G., Ursavaş G.
Fourteenth Congress of the European Society for Research in Mathematics Education (CERME14), Bolzano, Italy, 4 - 08 February 2025
- II. **Matematik Öğretmeni Adaylarının Adil ve Nitelikli Matematik Eğitimi Odaklı Fark Etme Becerilerinin Geliştirilmesi Modülü**
ÇELEBİ E. G., YOLCU A., GÜZELLER G.
16. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, Edirne, Turkey, 4 - 07 September 2024
- III. **Can differentiated pedagogies solve the problem of inequality in school mathematics?**
YOLCU A.
XII International Conference on Critical Education, Ankara, Turkey, 4 - 07 June 2024
- IV. **The inscription of desired images of children through contextualized tasks in mathematics textbooks from Flanders and Turkey**
Van Steenbrugge H., Yolcu A.
13th Congress of the European Society for Research in Mathematics Education, Budapest, Hungary, 10 - 14 July 2023, pp.4213-4220
- V. **Matematik Öğretmen Adaylarının Kültürel Olarak Duyarlı Matematik Etkinliklerinin İncelenmesi**
Yolcu A.

IXth International Eurasian Educational Research Congress, İzmir, Turkey, 22 - 25 June 2022, pp.29-40

- VI. **Innovation in school mathematics? Historical iterations and other enduring dangers: A response to Lisa Darragh**
YOLCU A.
Eleventh International Mathematics Education and Society Conference, Austria, 24 September 2021, pp.33-38
- VII. **Promised 'land' of mathematics education: towards a sociomaterial tracing of research on children's mathematics**
YOLCU A.
14th International Conference on Mathematical Education, China, 12 July 2021
- VIII. **Possibilities and Constraints of History of Mathematics for Cultural Diversity**
Yolcu A.
International Online Conference On Mathematics Education, İstanbul, Turkey, 26 - 30 May 2021, pp.22-23
- IX. **Hierarchies of 'real-life needs': Humanitarian techniques and the racialized tracking of science and mathematics education**
Yolcu A., Kirchgassler K.
American Educational Research Association (AERA) Annual Meeting, Washington, United States Of America, 8 - 12 April 2021
- X. **Bir ilkökul öğretmenin drama yöntemini sınıfında kullanma yolculuğu: Bir eylem araştırması örneği**
AKKOCAOĞLU ÇAYIR N., YOLCU A.
18th International Primary Teacher Education Symposium, Antalya, Turkey, 16 - 20 October 2019
- XI. **Real-life mathematics: Politicization of natural life and rethinking the sovereign**
Yolcu A.
Eleventh Congress of the European Society for Research in Mathematics Education, Utrecht, Netherlands, 6 - 10 February 2019, pp.1-10
- XII. **Unfolding global/local policies, practices and/or hybrids in mathematics education worldwide: utopias, pleasures, pressures and conflicts**
Chronaki A., Adams G., Andrade M., Bruno G., Demissie F., Marcone R., Para A., Povey H., Swanson D., Valero P., et al.
Tenth International Mathematics Education and Society Conference, Haidarabad, India, 28 January - 05 February 2019
- XIII. **At The Crossroads of Mathematics and Lived Experiences: Increasing Young Children's Access to Rigorous Mathematics**
Bartell T., Harper F., Yolcu A., Wager A.
North American Chapter of the International Group for the Psychology of Mathematics Education (PMENA 39), Indiana, United States Of America, 5 - 08 October 2017, pp.1258
- XIV. **Historicizing "Math for All"**
YOLCU A.
Mathematics Education and Society, Volos, Greece, 07 April 2017, pp.1011-1021
- XV. **Equity in Mathematics Education: Who is an Ally?**
Lopez Levia C. A., Herbel-Eisenmann B., YOLCU A., Jones D.
37th North American Chapter of the International Group for the Psychology of Mathematics Education, East Lansing, MI, United States Of America, 05 November 2016, pp.916-919
- XVI. **Teaching mathematics for equity and social justice: Prospective teachers' identities in their foregrounds**
Yolcu A.
American Educational Research Association (AERA) Annual Meeting, Washington, United States Of America, 8 - 12 April 2016
- XVII. **"Un leño solo, no arde": Exploring Borderline Epistemologies and Coalitions in Mathematics Education**
Lopez Levia C. A., Larnell G., Herbel-Eisenmann B., Foote M., YOLCU A., Jones D.
American Educational Research Association Annual Meeting, Washington, Dc, United States Of America, 08 April 2016, pp.338

- XVIII. **Access, agency and allies: A systematic approach to addressing an equitable system**
Herbel-Eisenmann B., Foote M., Bartell T., Koestler C., Yolcu A., Jones D., Lopezleiva C.
20th Annual Conference of the Association of Mathematics Teacher Educators (AMTE 20), California, United States Of America, 28 - 30 January 2016
- XIX. **Putting it all together: Bundling research on equity in mathematics methods courses**
Wager A., Yolcu A., Ziols R.
20th Annual Conference of the Association of Mathematics Teacher Educators (AMTE 20), California, United States Of America, 28 - 30 January 2016
- XX. **8th Grade Students' Statistical Literacy of Average and Variation Concepts**
YOLCU A., Haser Ç.
Eighth Congress of the European Society for Research in Mathematics Education, Antalya, Turkey, 06 February 2013, pp.912-921
- XXI. **Development of attitudes towards statistics questionnaire for middle school students and 8th grade students' attitudes towards statistics**
YOLCU A., HASER Ç.
18th Conference of Mathematical Views Conference (MAVI 18), Helsinki, Finland, 12 - 18 September 2012, pp.83-95
- XXII. **İlköğretim 8. sınıf öğrencilerinin istatistiksel okuryazarlık bağlamında örneklem konusunu kavramaları**
YOLCU A., HASER Ç.
11. Matematik Sempozyumu (MATDER), Samsun, Turkey, 19 - 21 September 2012, pp.96-97
- XXIII. **Eighth grade elementary school students' conceptualizations of graph concept in the context of statistical literacy**
Yolcu A., Haser Ç.
London International Conference on Education (LICE 2012), London, England, 19 - 22 November 2012

Supported Projects

Yolcu A., Yetkin Özdemir İ. E., Çelebi E. G., TUBITAK Project, Making of (In)equities in Mathematics Education: Cultural Analysis of Systems of Thought and Pedagogical Practices Organizing Mathematics Learning Opportunities, 2024 - 2026
Çelebi E. G., Yolcu A., TUBITAK Project, Matematik Öğretmeni Adayları İçin Kapsayıcı Adil ve Nitelikli Matematik Eğitimi Uygulamaları Modülü ve Buna Yönelik Fark Ediş Becerilerinin Geliştirilmesi, 2023 - 2025
Bartell T., Herbel-Eisenmann B., Wager A., Foote M., Lopezleiva C., Larnell G., Koestler C., Yolcu A., Jones D., Harper F., National Research Fund Supported Project, Access, Agency, and Allies in Mathematical Systems (A3IMS), 2014 - 2018
Yolcu A., Haser Ç., Project Supported by Higher Education Institutions, İlköğretim 8. Sınıf Öğrencilerinin İstatistiksel Okuryazarlıkları İle İstatistiğe Yönelik Tutumları Arasındaki İlişkinin İncelenmesi, 2012 - 2012

Activities in Scientific Journals

FOR THE LEARNING OF MATHEMATICS AN INTERNATIONAL JOURNAL OF MATHEMATICS EDUCATION, Advisory Committee Member, 2023 - Continues
RESEARCH IN MATHEMATICS EDUCATION, Special Issue Editor, 2020 - 2021

Peer Reviews in Scientific Publications

EDUCATIONAL STUDIES IN MATHEMATICS, Journal Indexed in SSCI, November 2019
HACETTEPE ÜNİVERSİTESİ EĞİTİM FAKÜLTESİ DERGİSİ, National Scientific Refreed Journal, September 2019
Educational Studies in Mathematics, Journal Indexed in SSCI, February 2019

Journal of Teacher Education, Journal Indexed in SSCI, December 2018

Journal of Teacher Education, Journal Indexed in SSCI, September 2017

Scientific Project Refereeing

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, August 2023

Metrics

Publication: 47

Citation (WoS): 21

Citation (Scopus): 56

H-Index (WoS): 3

H-Index (Scopus): 4

Non Academic Experience

Ministry, Milli Eğitim Bakanlığı, Ortaöğretim Genel Müdürlüğü, Matematik Ders Kitapları Editörlüğü

Ministry, Milli Eğitim Bakanlığı, Ortaöğretim Genel Müdürlüğü, Matematik Dersi Öğretim Programı Geliştirme Komisyon Üyesi