

## Personal Information

Email: ubuz@metu.edu.tr

## Education Information

Doctorate, The University Of Nottingham, Matematik Eğitim, United Kingdom 1992 - 1996

## Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Education, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 2011 - Continues

Associate Professor, Middle East Technical University, Faculty of Education, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 2000 - 2011

Assistant Professor, Middle East Technical University, Faculty of Education, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 1997 - 2000

Lecturer, Middle East Technical University, Faculty of Education, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 1996 - 1997

Research Assistant, Middle East Technical University, Faculty of Education, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 1990 - 1996

## Advising Theses

UBUZ B., Causal relations among 12th grade students geometry knowledge, spatial ability, gender, and school type, Doctorate, A.ERYILMAZ(Student), 2012

UBUZ B., A multilevel structural model of mathematical thinking in derivative concept, Doctorate, U.ÖZDİL(Student), 2012

UBUZ B., Matematik lisans derslerindeki tartışmaların Toulmin modeline göre analizi, Doctorate, S.DİNÇER(Student), 2011

UBUZ B., İlköğretim ikinci kademe cebir öğrenme alanı ile ilgili matematiksel görevlerin bilişsel istemler açısından incelenmesi: Matematik ders kitapları ve sınıf uygulamaları, Doctorate, G.SARPKAYA(Student), 2011

UBUZ B., Preservice secondary mathematics teachers' pedagogical content knowledge of composite and inverse functions, Doctorate, B.KARAHASAN(Student), 2010

UBUZ B., Sınıf öğretmeni adaylarının geometrik cisimler konusundaki pedagojik alan bilgileri, Doctorate, Y.GÖKBULUT(Student), 2010

UBUZ B., The effect of project-based learning on 7th grade students' knowledge acquisition in, attitude towards and active learning strategies in and learning value of geometry with differing cognitive style, Doctorate, Y.AYDINYER(Student), 2010

UBUZ B., The contribution of cognitive style and prior knowledge on sixth grade students' knowledge acquisition in polygons in drama based learning environment, Post Graduate, B.ATAR(Student), 2010

UBUZ B., Analysis of analogy use on function concept in the ninth grade mathematics textbook and classrooms, Post Graduate, E.ÜNVER(Student), 2009

UBUZ B., An investigation of 10th grade students' proof schemes in geometry with respect to their cognitive styles and gender, Post Graduate, D.ÖREN(Student), 2007

UBUZ B., A comparison of drama-based learning and cooperative learning with respect to seventh grade students' achievement, attitudes and thinking levels in geometry, Post Graduate, N.KALE(Student), 2007

UBUZ B., A structural equation modeling study: The metacognition-knowledge model for geometry, Post Graduate, U.AYDIN(Student), 2007

UBUZ B., The effects of physical manipulative with or without self-metacognitive questioning on sixth grade students' knowledge acquisition in polygons, Post Graduate, B.ERDOĞAN(Student), 2007

UBUZ B., An investigation on the effects of project-based learning on students achievement in and attitude towards geometry, Post Graduate, E.ÖZDEMİR(Student), 2006

UBUZ B., An analysis of geometry problems in 6th, 7th, 8th grades Turkish mathematics textbooks, Post Graduate, H.DELİL(Student), 2006

UBUZ B., Student perceptions on their physics and mathematics teachers effectiveness, Post Graduate, M.HAMDİ(Student), 2006

UBUZ B., The effect of the asynchronous WEB based course on the pre-service teachers' achievement, metacognition, and attitudes towards computer, WWW and WEB based course, Doctorate, A.TOPRAK(Student), 2005

UBUZ B., Development in secondary pre-service mathematics teachers' pre-existing beliefs during the last 1.5 years of the five year integrated program, Post Graduate, A.ERYILMAZ(Student), 2005

UBUZ B., The effect of journal writing on first year engineering students' achievement on integral, Post Graduate, N.TOSMUR(Student), 2004

UBUZ B., The effects of drama based instruction on seventh grade students' geometry achievement, van Hiele geometric thinking levels, attitude toward mathematics and geometry, Doctorate, A.DUATEPE(Student), 2004

UBUZ B., Developing the understanding of geometry through a computer-based learning environment, Post Graduate, I.ÜSTÜN(Student), 2003

UBUZ B., Tanısal öğretim yönteminin 9.sınıf öğrencilerinin mutlak değer konusundaki başarılarına etkisi, Post Graduate, H.ŞANDIR(Student), 2003

UBUZ B., The effect of Journal Writing on first year university students' performance on function and limit-continuity, Post Graduate, B.KARAHASAN(Student), 2002

UBUZ B., Effects of sociocultural learning environments on 5th grade students' performance on the fractions concept, Post Graduate, Ç.HASER(Student), 2001

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Project-based geometry learning: Knowledge and attitude of field-dependent/independent cognitive style students**  
UBUZ B., Aydınyer Y.  
JOURNAL OF EDUCATIONAL RESEARCH, vol.112, pp.285-300, 2019 (Journal Indexed in SSCI)
- **Effects of Physical Manipulative Instructions with or without Explicit Metacognitive Questions on Geometrical Knowledge Acquisition**  
UBUZ B., Erdogan B.  
INTERNATIONAL JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION, vol.17, pp.129-151, 2019 (Journal Indexed in SSCI)
- **THE THINKING-ABOUT-DERIVATIVE TEST FOR UNDERGRADUATE STUDENTS: DEVELOPMENT AND VALIDATION**  
UBUZ B., UBUZ B.  
INTERNATIONAL JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION, vol.13, pp.1279-1303, 2015 (Journal Indexed in SSCI)
- **Predicting undergraduate students' mathematical thinking about derivative concept: A multilevel analysis of personal and institutional factors**  
Aydin U., UBUZ B.  
LEARNING AND INDIVIDUAL DIFFERENCES, vol.32, pp.80-92, 2014 (Journal Indexed in SSCI)
- **Structural model of metacognition and knowledge of geometry**  
Aydin U., UBUZ B.  
LEARNING AND INDIVIDUAL DIFFERENCES, vol.20, pp.436-445, 2010 (Journal Indexed in SSCI)
- **Turkish Version of the Junior Metacognitive Awareness Inventory: The Validation Study**  
Aydin U., UBUZ B.  
EGITIM VE BILIM-EDUCATION AND SCIENCE, vol.35, pp.30-45, 2010 (Journal Indexed in SSCI)
- **Effect of Dynamic Geometry Environment on Immediate and Retention Level Achievements of Seventh Grade Students**  
UBUZ B., Ustun I., Erbas A. K.  
EGITIM ARASTIRMALARI-EURASIAN JOURNAL OF EDUCATIONAL RESEARCH, vol.9, pp.147-164, 2009

(Journal Indexed in SSCI)

- **Effects of Drama-Based Geometry Instruction on Student Achievement, Attitudes, and Thinking Levels**  
DUATEPE PAKSU A., UBUZ B.  
JOURNAL OF EDUCATIONAL RESEARCH, vol.102, pp.272-286, 2009 (Journal Indexed in SSCI)
- **The effect of a dynamic geometry environment on immediate and retention level achievements of seventh grade students**  
UBUZ B., ÜSTÜN I., ERBAŞ A. K.  
Eğitim Araştırmaları-Eurasian Journal Of Educational Research, vol.35, pp.147-164, 2009 (Journal Indexed in SSCI)
- **Effects of the asynchronous web-based course: Preservice teachers' achievement, metacognition, and attitudes towards the course**  
Topcu A., UBUZ B.  
EDUCATIONAL TECHNOLOGY & SOCIETY, vol.11, pp.181-197, 2008 (Journal Indexed in SSCI)
- **The effects of metacognitive knowledge on the pre-service teachers' participation in the asynchronous online forum**  
Topcu A., UBUZ B.  
EDUCATIONAL TECHNOLOGY & SOCIETY, vol.11, pp.1-12, 2008 (Journal Indexed in SSCI)

## Articles Published in Other Journals

- **Geometry knowledge test about triangles: evidence on validity and reliability**  
UBUZ B., Aydın U.  
ZDM-MATHEMATICS EDUCATION, vol.50, pp.659-673, 2018 (Journal Indexed in ESCI)
- **Measuring striving for understanding and learning value of geometry: a validity study**  
UBUZ B., Aydınyer Y.  
INTERNATIONAL JOURNAL OF MATHEMATICAL EDUCATION IN SCIENCE AND TECHNOLOGY, vol.48, pp.1072-1086, 2017 (Journal Indexed in ESCI)
- **Exploring the Quality of the Mathematical Tasks in the New Turkish Elementary School Mathematics Curriculum Guidebook the Case of Algebra**  
UBUZ B., ERBAŞ A. K. , ÇETİNKAYA B., ÖZGELDİ M.  
ZDM - Mathematics Education, vol.42, pp.483-491, 2010 (Refereed Journals of Other Institutions)

## Refereed Congress / Symposium Publications in Proceedings

- **Cognitive levels of the tasks in Turkish children magazine: A content analysis**  
Ubuz B., Ata Aktürk A., Çetin M.  
ECER, Bolzano, Italy, 4 - 07 September 2018, pp.1-3
- **Exploring cognitive demands of mathematics and geometry questions in Turkish national university entrance exams**  
Ubuz B., Alp A.  
ECER, Bolzano, Italy, 4 - 07 September 2018, pp.1-3
- **Why Do Students Remember Some Teacher-Generated Analogies More Than Others?**  
Ubuz B., Sezer E. Ü.  
ECER, Bolzano, Italy, 4 - 07 September 2018, pp.1-3
- **FACTORS THAT FOSTER OR HINDER MATHEMATICAL THINKING**  
UBUZ B., Matos J. F. , Lerman S.  
36th Annual Conference of the International-Group-for-Psychology-of-Mathematics-Education (PME 36), Taipei, Taiwan, 18 - 22 July 2012, pp.162
- **ARGUMENTATION IN UNDERGRADUATE MATH COURSES : A STUDY ON PROOF GENERATION**  
UBUZ B., Dincer S., BÜLBÜL A.  
36th Annual Conference of the International-Group-for-Psychology-of-Mathematics-Education (PME 36), Taipei, Taiwan, 18 - 22 July 2012, pp.163-170

- **PRE-SERVICE TEACHERS SUBJECT MATTER KNOWLEDGE: THE CASE OF COMPOSITE AND INVERSE FUNCTIONS**

Karahasan B., UBUZ B.

35th Annual Conference of the International-Group-for-the-Psychology-of-Mathematics-Education (PME), Ankara, Turkey, 10 - 15 July 2011, pp.330

- **MATHEMATICAL THINKING RESEARCH BY TURKISH COMMUNITY**

UBUZ B., KAZAK S., AKKOÇ H., ÖZMANTAR M. F.

35th Annual Conference of the International-Group-for-the-Psychology-of-Mathematics-Education (PME), Ankara, Turkey, 10 - 15 July 2011, pp.203-228

- **MATHEMATICS TEACHER EDUCATION IN TURKEY**

UBUZ B., UÇAR Z. T.

35th Annual Conference of the International-Group-for-the-Psychology-of-Mathematics-Education (PME), Ankara, Turkey, 10 - 15 July 2011, pp.229-235

- **A SURVEY OF MATHEMATICS EDUCATION DOCTORAL PROGRAMS IN TURKEY**

UBUZ B., ÇAKIROĞLU E., ERBAŞ A. K.

35th Annual Conference of the International-Group-for-the-Psychology-of-Mathematics-Education (PME), Ankara, Turkey, 10 - 15 July 2011, pp.187-201

- **DOCTORAL PROGRAMS IN MATHEMATICS EDUCATION: CURRENT STATUS AND FUTURE PATHWAYS FOR TURKEY**

UBUZ B., ÇAKIROĞLU E., ERBAŞ A. K.

7th Congress of the European-Society-for-Research-in-Mathematics-Education (ERME), Rzeszow, Poland, 9 - 13 February 2011, pp.1521-1530

- **COGNITIVE DEMANDS IN THE US AND TURKISH PRIMARY MATHEMATICS TEXTBOOKS: THE CASE OF DECIMALS**

UBUZ B., Hacımeroglu E. S. , Hacımeroglu G.

34th Conference of the International-Group-for-the-Psychology-of-Mathematics-Education, Belo Horizonte, Brazil, 18 - 23 July 2010, pp.116

- **PROOF IN ELEMENTARY MATHEMATICS: A CASE OF ALGEBRA**

UBUZ B.

33rd Conference of the International-Group-for-the-Psychology-of-Mathematics-Education, Thessaloniki, Greece, 19 - 24 July 2009, vol.1, pp.480

- **MATHEMATICAL TASKS TO PROMOTE STUDENT LEARNING**

BAYAZIT I., Ubuz B., Aksoy Y.

33rd Conference of the International-Group-for-the-Psychology-of-Mathematics-Education, Thessaloniki, Greece, 19 - 24 July 2009, vol.2, pp.129-130

- **PRE-SERVICE TEACHER-GENERATED ANALOGIES FOR FUNCTION CONCEPTS**

UBUZ B., ERYILMAZ ÇEVİRGEN A., Aydın U., BAYAZIT I.

6th Congress of the European-Society-for-Research-in-Mathematics-Education (CERME), Lyon, France, 28 January - 01 February 2009, pp.1871-1879

- **INSTRUCTIONAL ANALOGIES AND STUDENT LEARNING: THE CONCEPT OF FUNCTION**

BAYAZIT I., Ubuz B.

32nd Conference of the International-Group-for-the-Psychology-of-Mathematics-Education/PME-NA XXX, Morelia, Mexico, 17 - 21 July 2008, pp.145-147

- **STUDENT CONCEPTIONS AND TEXTBOOK MESSAGES: POLYGONS**

UBUZ B.

30th Conference of the International-Group-for-the-Psychology-of-Mathematics-Education, Prague, Czech Republic, 16 - 21 July 2006, pp.347

## Supported Projects

UBUZ B., Ata Aktürk A., Çetin M., Project Supported by Higher Education Institutions, Okul Öncesi Dönem Çocuk Dergilerinde Yer alan Etkinliklerde Bilişsel İstem Seviyelerinin Uygulamalı Olarak İncelenmesi, 2018 - 2019

## Scientific Refereeing

CERME 11, Conference Paper (Full Text), October 2018

CERME 11, Conference Paper (Full Text), October 2018

CERME 11, Conference Paper (Full Text), October 2018

CERME 11, Conference Paper (Full Text), October 2018

INTERNATIONAL JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION, SCI Journal, June 2018

EDUCATIONAL STUDIES IN MATHEMATICS, SCI Journal, May 2018

PME42, Conference Paper (Full Text), March 2018

PME42, Conference Paper (Full Text), March 2018

PME42, Conference Paper (Full Text), March 2018

EURASIA JOURNAL OF MATHEMATICS SCIENCE AND TECHNOLOGY EDUCATION, SCI Journal, February 2018

## Citations

Total Citations (WOS):103

h-index (WOS):6