

AYSEL ŞEN ZEYTUN

Istanbul Aydın University
Faculty of Education
Primary Mathematics Education Department



Date & Place of Birth : 01.04.1981 – ANKARA, TURKEY
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EDUCATION:

2007- 2013 **Ph. D.** : Middle East Technical University, Ankara, Turkey,
Secondary Science and Mathematics Education,
(Degree: 4.00/4.00)
Title of Dissertation: An Investigation of Prospective Teachers' Mathematical Modelling
Processes and Their Views About Factors Affecting These Processes

2005-2007 **M. Sc.** : Gazi University, Ankara, Turkey
Secondary Science and Mathematics Education
(Degree: 3.57/4.00)

2001-2005 **B. Sc.** : Ankara University, Ankara, Turkey
Mathematics
(Degree: 3.58/4.00)

EMPLOYMENT:

Istanbul Aydın University Faculty of Education, Head of the Primary Mathematics Education
Programme (July 2015-)

Academician at Istanbul Aydın University: (September 2013-) Assistant Professor Doctor and
Member of Faculty Board at Istanbul Aydın University Faculty of Education

[Turkish Scientific and Technical Research Institution](#) (TÜBİTAK) - SOBAG 110K250, Fellowship
Researcher (11.2009-10.2011)

Project: Mathematical Modelling in Mathematics Education: Pre-service and
Inservice Teacher Education. The project was supported by the TUBITAK grant number
110K250 to study role of mathematical modelling in pre-service and in-service (secondary)
mathematics teacher education. Project Web Site: <http://matemodel.metu.edu.tr>

[Koc University](#) - Office of Learning and Teaching: Coordinator (09.2012-11.2012) Supporting
student learning, providing programs to prepare and support graduate Teaching Assistants for
effective teaching.

RESEARCH INTERESTS:

- Mathematics Education
- Mathematics Teacher Education

- Mathematical Modelling in Education
- Mathematics

LANGUAGE SKILLS:

- **Turkish** - Native
- **English** - Good command in reading, writing and speaking (KPDS/2012: 96.25)

SCHOLARSHIPS:

TÜBİTAK, 2211 Scholarship for Graduate Studies (2007-2012)

TÜBİTAK, 2224 Scholarship for Participating International Scientific Events (2009)

ERASMUS Staff Mobility Programme, Invited for teaching between May 25, 2015 and 29 May 2015 at University of Lisbon, Institute of Education, Portugal.

PROJECTS:

Istanbul Aydın University Scientific Research Project: Project Coordinator, Prospective Teachers Skills on Using Manipulatives in Teaching Mathematics and Their Views on Material Usage.

LECTURES GIVEN:

Academic Semester/ University	Semester	Course Name	Course Hour per week	Number of students
2010-2011 (Middle East Technical University)	Fall	SSME 402 Mathematical Modeling in Education	3	19
2013-2014 (Istanbul Aydın University-IAU)	Fall	MAT 143 Basic Mathematics I	2	105
2013-2014	Fall	MAT 141 Mathematics	4	50
2013-2014 (IAU)	Fall	SNO 321 Mathematics Education I	3	104
2013-2014 (IAU)	Fall	UTE 141 Mathematics	2	44
2013-2014 (IAU)	Fall	AMT 108 Mathematics	2	135
2013- 2014 (IAU)	Spring	EFU 415 Mathematical Modeling	3	15
2013-2014 (IAU)	Spring	MAT 112 Basic Mathematics II	2	106
2013-2014 (IAU)	Spring	MAT 116 Mathematics II	4	56
2014-2015 (IAU)	Fall	MAT 143 Basic Mathematics I	2	137

2014-2015 (IAU)	Fall	MAT 141 Mathematics	4	53
2014-2015 (IAU)	Fall	Mat 145 Calculus I (in English)	4	97
2014-2015 (IAU)	Spring	Mat 146 Calculus II (in English)	4	97
2014-2015 (IAU)	Spring	Mat 116 Mathematics II	4	97
2014-2015 (IAU)	Spring	Mat 112 Basic Mathematics II	4	97
2015-2016 (IAU)	Fall	Mathematical Modelling-1	2	17
2015-2016 (IAU)	Fall	Mathematics Education-1	3	64
2015-2016 (IAU)	Spring	Mathematical Modelling-2	3	17
2015-2016 (IAU)	Spring	Mathematics Education-2	3	64

COMPUTER SKILLS:

- MS Office Applications
- SPSS

REFEREE ACTIVITIES:

- Mersin University Journal of the Faculty of Education
- IJEMST International Journal of Education in Mathematics, Science and Technology

PUBLICATIONS:

Şen, A., Çetinkaya, B., & Erbaş, A. K. (2010). Mathematics Teachers' Covariational Reasoning Levels and Predictions about Students' Covariational Reasoning Abilities, *Educational Sciences: Theory & Practice*, 10(3), 1601-1612. (in SSCI)

Çetinkaya, B., **Şen, A.** & Baş, S. (2008). Integrating Mathematical Modelling and Applications in Teaching and Learning Mathematics. VIII. International Educational Technology Conference, *IETC 2008 Proceedings*, 241-246.

Ayhan Kürşat ERBAŞ, Bülent CETİNKAYA, Cengiz ALACACI, Erdinç ÇAKIROĞLU, Arzu AYDOĞAN YENMEZ, **Aysel ŞEN ZEYTUN**, Himmet KORKMAZ, Mahmut KERTİL, Makbule Gözde DİDİŞ, Sinem BAŞ, Zülal ŞAHİN. (2016) *Lise Matematik Konuları için Günlük Hayattan Modelleme Soruları*, ISBN 978-9944-252-75-1, Turkish Academy of Sciences.

Sen-Zeytun, A., Çetinkaya, B., & Erbaş, A. K. () Understanding prospective teachers' mathematical modelling processes in the context of a mathematical modelling course (under review)

Sen-Zeytun, A., Çetinkaya, B., & Erbaş, A. K. () Pre-service Teachers' Perceptions of Factors Influencing their Mathematical Modeling Competencies (under review).

PRESENTATIONS:

Şen-Zeytun, A., Çetinkaya, B., Erbaş, A. K. (2014). How Do Prospective Teachers Develop Mathematical Models? A Case of “Who Wants to be a Millionaire” Activity , 06-08 June, *ERPA International Congress on Science and Mathematics Education, Istanbul University, Istanbul, Turkey.*

Şen-Zeytun, A., Çetinkaya, B., Erbaş, A. K. (2011). Understanding Pre-Service Mathematics Teachers’ Difficulties in Constructing A Mathematical Model, 10-15 July, *35th Conference of the International Group for the Psychology of Mathematics Education, Middle East Technical University, Ankara, Turkey.*

Arzu Aydoğan Yenmez, Erbaş, A. K., Çetinkaya, B., **Şen-Zeytun, A.** (2011). Not Really Cancer? 8. *Eğitimde İyi Örnekler Konferansı, Sabancı University, Istanbul, Turkey.*

Şen-Zeytun, A., Çetinkaya, B., Yıldırım, U., Erbaş, A. K. (2009). Pre-service Physics Teachers’ Difficulties in Constructing Mathematical Models of Simple Harmonic Motion, 26-30 July, *XIV. International Conference on the Teaching of Mathematical Modelling and Applications, University of Hamburg, Germany.*

Şen, A., Çetinkaya, B., & Erbaş, A. K. (2008). Mathematics Teachers' Covariational Reasoning Levels and Predictions about Students' Covariational Reasoning Abilities. VIII. *Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi. Bolu, Turkey, 27-29 August.*

Çetinkaya, B., **Şen, A.** & Baş, S. (2008). Integrating Mathematical Modelling and Applications in Teaching and Learning Mathematics. *VIII. International Educational Technology Conference. Eskişehir-Turkey, 6-8 May.*