

# Assoc. Prof. SİBEL KAZAK

## Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: GYA-4614-2022

ScopusID: 56000069200

Yoksis Researcher ID: 159922

## Education Information

2001 - 2006	Doctorate, Washington University in St. Louis, Arts and Sciences, Education, United States Of America
2000 - 2001	Postgraduate, Pennsylvania State University, Education, Curriculum and Instruction, United States Of America
1993 - 1998	Undergraduate, Middle East Technical University, Faculty of Education, Mathematics and Science Education, Turkey

## Dissertations

2006	Investigating Elementary School Students' Reasoning about Distributions in Various Chance Events, Washington University in St. Louis, Doctorate
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## Research Areas

Education in Mathematics

## Academic Titles / Tasks

2022 - Continues	Associate Professor, Middle East Technical University, Faculty of Education, Mathematics and Science Education
2021 - 2022	Associate Professor, Pamukkale University, Faculty Of Education, Department Of Mathematics And Science Teaching
2009 - 2020	Assistant Professor, Pamukkale University, Faculty Of Education, Department Of Mathematics And Science Teaching
2012 - 2014	Researcher, University of Exeter, Faculty of Humanities, Arts and Social Sciences, Graduate School of Education
2006 - 2008	Researcher, University of Massachusetts at Amherst, College of Natural Sciences, The Scientific Reasoning Research Institute (SRR I)
1998 - 1999	Research Assistant, Middle East Technical University, Faculty of Education, Mathematics and Science Education

## Advising Theses

2019	Kazak S., Doctorate, R.GÖKCE(Student), Ortaokul matematik öğretmenlerinin istatistiksel akıl yürütmeye ilişkin alan ve pedagojik alan bilgilerinin incelenmesi
2019	Kazak S., Postgraduate, B.DOLUZENGİN(Student), Gerçekçi matematik eğitiminin altıncı sınıf öğrencilerinin istatistiksel düşünme becerilerine, başarı güdülerine ve bilgilerinin kalıcılığına etkisi
2017	Kazak S., Postgraduate, N.BANU(Student), Ortaokul matematik öğretmen adaylarının alan ve pedagojik alan bilgileri çerçevesinde kesirlerle çarpma ve bölme işlemlerinin öğretimine ilişkin kullandıkları modeller
2013	Kazak S., Kabaca T., Postgraduate, D.GÜNAY(Student), 7.sınıf öğrencilerinin fraktallara ilişkin informal anlamalarının belirlenmesi
2012	Kazak S., Postgraduate, S.ÖZBAY(Student), Informel çıkarsamalı akıl yürütmeye öğrencilerin örneklem hakkındaki akıl yürütme ve düşünme süreçleri

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Students' informal statistical inferences through data modeling with a large multivariate dataset**  
Kazak S, Fujita T, Turmo M. P.  
MATHEMATICAL THINKING AND LEARNING, vol.25, no.1, pp.23-43, 2023 (SSCI)
- II. **Sixth grade students' emerging practices of data modelling**  
Kazak S., Pratt D., Gokce R.  
ZDM-MATHEMATICS EDUCATION, vol.50, no.7, pp.1151-1163, 2018 (SSCI)
- III. **The importance of dialogic processes to conceptual development in mathematics**  
Kazak S, Wegerif R, Fujita T.  
EDUCATIONAL STUDIES IN MATHEMATICS, vol.90, no.2, pp.105-120, 2015 (SSCI)
- IV. **Conceptual Challenges in Coordinating Theoretical and Data-centered Estimates of Probability**  
Konold C, Madden S, Pollatsek A, Pfannkuch M, Wild C, Ziedins I, Finzer W, Horton N. J., Kazak S.  
MATHEMATICAL THINKING AND LEARNING, vol.13, no.1-2, pp.68-86, 2011 (SSCI)

## Articles Published in Other Journals

- I. **The Design and Implementation of a Bayesian Data Analysis Lesson for Pre-Service Mathematics and Science Teachers**  
Dogucu M, KAZAK S, Rosenberg J. M.  
Journal of Statistics and Data Science Education, 2024 (ESCI)
- II. **Introduction to rethinking learners' reasoning with nontraditional data**  
Noll J., KAZAK S., Zapata-Cardona L., Makar K.  
Teaching Statistics, vol.45, no.S1, 2023 (ESCI)
- III. **Evaluation of Mathematics Activities Performed in Out-of-School Environments: "Everywhere Math Project"**  
Duatpe Paksu A., Kazak S., Çontay E. G.  
Muğla Sıtkı Koçman Üniversitesi Eğitim Fakültesi Dergisi, vol.9, no.2, pp.541-558, 2022 (Peer-Reviewed Journal)
- IV. **The Emerging Interplay Between Subjective and Objective Notions of Probability in Young Children**  
Kazak S., Leavy A.  
CANADIAN JOURNAL OF SCIENCE MATHEMATICS AND TECHNOLOGY EDUCATION, vol.22, no.3, pp.538-557, 2022 (ESCI)
- V. **The effect of Realistic Mathematics Education on sixth grade students' statistical thinking**  
Altaylar B., KAZAK S.  
Acta Didactica Napocensia, vol.14, no.1, pp.76-90, 2021 (Peer-Reviewed Journal)
- VI. **Developing the role of modelling in the teaching and learning of probability**  
Kazak S, Pratt D.  
RESEARCH IN MATHEMATICS EDUCATION, vol.23, no.2, pp.113-133, 2021 (ESCI)

- VII. **Dörtgenleri Simetri Perspektifinden İnceleyen Öğretmen Adaylarının Geometrik Düşüncelerindeki Değişim: Dikdörtgen ve Eşkenar Dörtgen Tanımı Örnekleri**  
KAZAK S., DUATEPE PAKSU A.  
Gazi Eğitim Fakültesi Dergisi, vol.39, no.3, pp.1421-1451, 2019 (Peer-Reviewed Journal)
- VIII. **Pre-service mathematics teachers' use of probability models in making informal inferences about a chance game**  
KAZAK S., Pratt D.  
Statistics Education Research Journal, vol.16, no.2, pp.287-304, 2017 (Peer-Reviewed Journal)
- IX. **Pre-service mathematics teachers' use of probability models in making informal inferences about a chance game1**  
KAZAK S., Pratt D.  
Statistics Education Research Journal, vol.16, no.2, pp.287-304, 2017 (Scopus)
- X. **Students informal inference about the binomial distribution of Bunny hops A Dialogic perspective**  
KAZAK S., Fujita T., Wegerif R.  
STATISTICS EDUCATION RESEARCH JOURNAL, vol.2, no.15, pp.46-61, 2016 (Scopus)
- XI. **Combining scaffolding for content and scaffolding for dialogue to support conceptual breakthroughs in understanding probability**  
Kazak S., Wegerif R., Fujita T.  
ZDM-MATHEMATICS EDUCATION, vol.47, no.7, pp.1269-1283, 2015 (ESCI)
- XII. **I get it now Stimulating insights about probability through talk and technology**  
KAZAK S., Wegerif R., Fujita T.  
Mathematics Teaching, vol.235, pp.30-33, 2013 (Non Peer-Reviewed Journal)
- XIII. **Reconnecting Data and Chance**  
Konold C., KAZAK S.  
Technology Innovations in Statistics Education, vol.2, no.1, 2008 (Peer-Reviewed Journal)
- XIV. **Understanding distributions by modeling them**  
Konold C., Harradine A., KAZAK S.  
INTERNATIONAL JOURNAL OF COMPUTERS FOR MATHEMATICAL LEARNING, vol.12, no.3, pp.217-230, 2007 (Scopus)
- XV. **Elementary school students' intuitive conceptions of random distributions**  
KAZAK S., Confrey J.  
International Electronic Journal of Mathematics Education, vol.2, pp.227-244, 2007 (Peer-Reviewed Journal)
- XVI. **Intersubjectivity through the mastery of semiotic means in teacher-student discourse**  
Wertsch J. V., KAZAK S.  
Research and Clinical Center for Child Development, annual report 27, 2005 (Peer-Reviewed Journal)
- XVII. **Undertaking data analysis of student outcomes as professional development for teachers**  
Confrey J., Makar K., Kazak S.  
ZDM : THE INTERNATIONAL JOURNAL ON MATHEMATICS EDUCATION, vol.36, no.1, 2004 (Scopus)
- XVIII. **Matematik öğretmen adaylarının olasılık başarısı olasılık ve matematiğe yönelik tutumlarının cinsiyete göre incelenmesi**  
BULUT S., Yetkin İ. E., KAZAK S.  
HACETTEPE ÜNİVERSİTESİ EĞİTİM FAKÜLTESİ DERGİSİ / HACETTEPE UNIV., JOURNAL OF FACULTY OF EDUCATION, vol.22, 2002 (Peer-Reviewed Journal)
- XIX. **Çoklu zekâ kuramı öğretmen rolüne ilişkin görüşler ve düşünceler**  
KAZAK S., Yayla Yürük N., Çakır Ö., SUNGUR S.  
Buca Eğitim Fakültesi Dergisi, vol.10, pp.269-274, 1999 (Peer-Reviewed Journal)
- XX. **Matematik öğretmen adaylarının olasılık kavramları ile ilgili yeterliliklerinin incelenmesi**  
BULUT S., KAZAK S., YETKİN ÖZDEMİR İ. E.  
Buca Eğitim Fakültesi Dergisi, vol.11, pp.384-394, 1999 (Peer-Reviewed Journal)

- I. **Statistics in the School Level in Turkey**  
Kazak S.  
in: Research on Reasoning with Data and Statistical Thinking: International Perspectives, Gail F. Burrill, Leandro de Oliveria Souza, Enriqueta Reston, Editor, Springer Nature, Zürich, pp.43-47, 2023
- II. **Etkinliklerin Teknoloji Bağlamında Değerlendirilmesi**  
KAZAK S.  
in: Matematik Eğitiminde Etkinlikler ve Uygulamaları, Yüksel Dede, Muhammed Fatih Doğan, Fatma Aslan-Tutak, Editor, Pegem Akademi, Ankara, pp.145-163, 2020
- III. **Emergent Reasoning About Uncertainty in Primary School Children with a Focus on Subjective Probability**  
KAZAK S., Leavy A.  
in: Statistics in Early Childhood and Primary Education Supporting Early Statistical and Probabilistic Thinking, Leavy, Aisling, Meletiyou-Mavrotheris, Maria, Paparistodemou, Efi, Editor, Springer, pp.37-54, 2018
- IV. **Research on probability and statistics education: trends and directions**  
Bakker A., Hahn C., KAZAK S., Pratt D.  
in: Developing Research in Mathematics Education Twenty Years of Communication, Cooperation and Collaboration in Europe, , Editor, Routledge, pp.46-59, 2018
- V. **Research on Uncertainty**  
Pratt D., KAZAK S.  
in: International Handbook of Statistics Education, , Editor, Springer, pp.193-227, 2018
- VI. **İstatistiksel Akıl Yürütme Gelişimi Üzerine Teorik Çerçevesel**  
KAZAK S.  
in: Matematik Eğitiminde Teoriler, Bingölbali, E., Arslan, S., Zembat, İ. Ö., Editor, Pegem A. Yayıncılık, Ankara, pp.201-214, 2016
- VII. **'How confident are you?' Supporting young students' reasoning about uncertainty in chance games through students' talk and computer simulations**  
Kazak S.  
in: Reasoning about uncertainty: learning and teaching informal inferential reasoning, A. Zieffler & E. Fry, Editor, Catalyst Press, Minnesota, pp.29-55, 2015
- VIII. **Saying more than you know in instructional settings**  
Wertsch J., Kazak S.  
in: Theorizing practice: theories of learning and research into instruction practice, T. Koschmann, Editor, Springer, London/Berlin , New York, pp.153-166, 2011
- IX. **Modeling random binomial rabbit hops**  
Kazak S.  
in: Modeling students' mathematical modeling competencies: ICTMA 13, R. Lesh, P. L. Galbraith, C. R. Haines, and A. Hurford, Editor, Springer, London/Berlin , New York, pp.561-570, 2010
- X. **Olasılık konusu öğrencilere neden zor gelmektedir?**  
Kazak S.  
in: İlköğretimde karşılaşılan matematiksel zorluklar ve çözüm önerileri, E. Bingölbali & M. F. Özmantar, Editor, Pegem A Yayıncılık, Ankara, pp.216-239, 2009
- XI. **Öğrencilerin olasılık konularındaki kavram yanlışları ile öğrenme zorlukları**  
Kazak S.  
in: Matematiksel kavram yanlışları ve çözüm önerileri, M. F. Özmantar, E. Bingölbali, H. Akkoç, Editor, Pegem A Yayıncılık, Ankara, pp.121-150, 2008
- XII. **A thirty-year reflection on constructivism in mathematics education in PME**  
Confrey J., Kazak S.  
in: Handbook of research on the psychology of mathematics education: past, present and future, A. Gutiérrez and P. Boero, Editor, Sense Publishers, Rotterdam, pp.305-345, 2006

- I. **Pre-service mathematics teachers' statistical problem-solving process for telling a story through the use of photographs as data sources**  
KAZAK S.  
13th Congress of the European Society for Research in Mathematics Education (CERME13), Hungary, 10 July 2023
- II. **How does online professional development nurture teachers' noticing skills of students' thinking?: The case of data analysis**  
Çatman Aksoy E., Ucuzoğlu A. N., Isiksal Bostan M., Kazak S., Yemen Karpuzcu S., Tekin Sitrava R.  
12th Congress of the European Society for Research in Mathematics Education (CERME12), 2 - 06 February 2022, pp.853-860
- III. **Pre-service mathematics teachers' experiences of acquiring and organizing image-based data**  
Kazak S.  
The Twelfth Congress of European Research in Mathematics Education (CERME12) , 2 - 05 February 2022, pp.897-903
- IV. **International perspectives on early statistical thinking: comparison of primary school curricula in different countries**  
Frischemeier D., KAZAK S., Leavy A., Meletiou-Mavrotheris M., Paparistodemou E.  
The 11th International Conference on Teaching Statistics, 11 September 2022
- V. **Investigation cycle for analysing image-based data: perspectives from three contexts**  
KAZAK S., Fielding J., Zapata-Cardona L.  
The 11th International Conference on Teaching Statistics, 11 September 2022
- VI. **The emerging interplay between subjective and objective notions of probability in young children**  
Kazak S., Leavy A.  
The 14th International Congress on Mathematical Education (ICME-14), Shanghai, China, 11 - 18 July 2021
- VII. **How Realistic Mathematics Education approach influences 6th grade students' statistical thinking**  
Doluzengin B., KAZAK S.  
The Eleventh Congress of the European Society for Research in Mathematics Education (CERME11), 6 - 10 February 2019
- VIII. **Investigating teachers' pedagogical content knowledge for statistical reasoning via the real life problem scenario**  
Gökce R., KAZAK S.  
The Eleventh Congress of the European Society for Research in Mathematics Education (CERME11), 6 - 10 February 2019
- IX. **6th Grade Students' Approaches To Comparing Two Datasets In A Statistical Investigation Process Supported By Technology/İstatistiksel Araştırma Sürecinin Uygulandığı Teknoloji Destekli Bir Etkinlik Bağlamında 6. Sınıf Öğrencilerinin İki Veri Grubunu Karşılaştırmada Kullandıkları Yaklaşımlar**  
KAZAK S., Gökce R.  
4. Uluslararası Türk Bilgisayar ve Matematik Eğitimi (TÜRKBİLMAT-4) Sempozyumu, 26 - 28 September 2019
- X. **Developing data analytics in K-12 education as a tool for promoting equity and social justice worldwide**  
Pifarre M., Andreea C., KAZAK S., Fujita T.  
The World Education Research Association 2019: Focal Meeting in Tokyo (WERA), Japan, 5 - 08 August 2019
- XI. **Developing students' data analytics skills through modelling**  
Kazak S., Fujita T., Pifarre Turmo M.  
The Eleventh International Research Forum on Statistical Reasoning, Thinking, and Literacy (SRTL-11), California, United States Of America, 14 - 20 July 2019
- XII. **Building up students' data analytics skills to solve real world problems**  
Kazak S., Fujita T., Pifarre Turmo M.  
The Eleventh Congress of the European Society for Research in Mathematics Education (CERME11), Utrecht, Netherlands, 6 - 10 February 2019
- XIII. **Ortaokul Matematik Öğretmenlerinin Bir Gerçek Yaşam Problemi Bağlamında İstatistiksel Akıl**

## **Yürütmeye İlişkin Pedagojik Alan Bilgilerinin İncelenmesi**

Gökce R., KAZAK S.

13. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, Turkey, 4 - 06 October 2018

### **XIV. Matematik ve Fen Bilimlerinin Bütünleştirilmesi: Parmak İzi Etkinliği**

SAVRAN GENCER A., KAZAK S.

13. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, Turkey, 4 - 06 October 2018

### **XV. Young students' ways of constructing and evaluating statistical models**

KAZAK S., Pratt D., Gökce R.

10th International Conference on Teaching Statistics, 8 - 13 July 2018

### **XVI. Matematik eğitiminde diyalojik yaklaşım: Küçük grup çalışmalarında akran konuşması ve teknoloji kullanımından örnekler.**

KAZAK S.

Eğitimde Gelecek Konferansı (EGK17), Turkey, 11 - 12 November 2017

### **XVII. Students' emerging ideas of models and modelling during a data modelling task**

Kazak S., Pratt D., Gökce R.

The Tenth International Research Forum on Statistical Reasoning, Thinking and Literacy (SRTL-10), Rotorua, New Zealand, 2 - 08 July 2017

### **XVIII. Akran konuşması ve teknoloji kullanımı aracılığıyla öğrencilerin olasılıksal akıl yürütmelerinin desteklenmesi**

KAZAK S.

3. Türk Bilgisayar ve Matematik Eğitimi (TÜRKBİLMAT-3), Turkey, 17 - 19 May 2017, pp.47-58

### **XIX. Middle school mathematics teachers' pedagogical content knowledge in relation to statistical reasoning**

Gokce R., Kazak S.

10th Congress of the European-Society-for-Research-in-Mathematics-Education (CERME), Dublin, Ireland, 1 - 05 February 2017, pp.772-779

### **XX. İlköğretim matematik öğretmeni adaylarının aritmetik ortalamaya ilişkin kavramsal anlamalarının değerlendirilmesi**

KAZAK S., ÖZALTUN ÇELİK A.

12.Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, Trabzon, Turkey, 28 - 30 September 2016

### **XXI. The proof schemes of prospective elementary mathematics teachers**

ÇONTAY G. E., DUATEPE PAKSU A., KAZAK S.

13th International Congress on Mathematical Education, Hamburg, Germany, 24 - 31 July 2016

### **XXII. Investigating middle school mathematics teachers pedagogical content knowledge in relation to statistical reasoning**

ASLAN R., KAZAK S.

13th International Congress on Mathematical Education, Hamburg, Germany, 24 - 31 July 2016

### **XXIII. İstatistik Öğretiminde Matematik Öğretmeni Adaylarının İnfornel Çıkarım Becerilerinin Geliştirilmesinin Önemi**

ÖZALTUN ÇELİK A., KAZAK S.

Matematik Öğretiminde Örnek Uygulamalar Konferansı, Ankara, Turkey, 30 - 31 January 2016

### **XXIV. A Bayesian inspired approach to reasoning about uncertainty: 'How confident are you?'**

Kazak S.

9th Congress of the European-Society-for-Research-in-Mathematics-Education (CERME), Prague, Czech Republic, 4 - 08 February 2015, pp.700-706

### **XXV. Some dialogic mechanisms behind conceptual development in mathematics**

Wegerif R., KAZAK S.

BERA Annual Conference 2014, England, 23 - 25 September 2014

### **XXVI. A dialogic theory of education exemplified in the context of primary mathematics**

Wegerif R., KAZAK S.

The Eighth International Conference on the Dialogical Self, Netherlands, 19 - 22 August 2014

- XXVII. **Year six students reasoning about random bunny hops through the use of TinkerPlots and peer to peer dialogic interactions**  
KAZAK S., Fujita T., Wegerif R.  
9th International Conference on Teaching Statistics (ICOTS 9), 13 - 18 July 2014
- XXVIII. **Supporting students probabilistic reasoning through the use of technology and dialogic talk**  
KAZAK S., Fujita T., Wegerif R.  
8th British Congress of Mathematics Education, 14 - 17 April 2014
- XXIX. **Supporting Creative Leaps in the Maths Classroom: Primary Students Working with Averages using TinkerPlots**  
KAZAK S.  
the University of Waikato, Hamilton, New Zealand, New Zealand, 21 January 2014
- XXX. **Some dialogic mechanisms at work when children learn to think**  
Wegerif R., KAZAK S.  
The Institute of Dialogic Pedagogy at the Waikato-Tainui College for Research and Development, New Zealand, 18 - 19 January 2014
- XXXI. **Yes it is fair, no it is not fair: What leads to a shift in young students' probabilistic reasoning about the fairness of a chance game?**  
KAZAK S., Wegerif R.  
The British Society for Research into Learning Mathematics (BSRLM) Day Conference, England, 16 November 2013
- XXXII. **Some dialogic mechanisms behind conceptual development in mathematics**  
Wegerif R., Yang Y., KAZAK S.  
The 15th Biennial EARLI Conference for Research in Learning and Instruction, Germany, 27 - 31 August 2013
- XXXIII. **Two year 7 students' understanding of measures of average in the context of informal inference**  
KAZAK S., Fujita T., Wegerif R.  
The British Society for Research into Learning Mathematics Day Conference, England, 02 March 2013
- XXXIV. **SUPPORTING STUDENTS' UNDERSTANDING OF PROBABILITY THROUGH MODELING CHANCE EVENTS**  
Kazak S.  
4th International Conference on Education and New Learning Technologies (EDULEARN), Barcelona, Spain, 2 - 04 July 2012, pp.1365-1369
- XXXV. **Mathematical thinking research by Turkish community**  
UBUZ B., KAZAK S., AKKOÇ H., ÖZMANTAR M. F.  
35th Conference of the International Group for the Psychology of Mathematics Education, 10 - 15 July 2011
- XXXVI. **AN INVESTIGATION OF 6TH GRADERS' THINKING AND REASONING ABOUT VARIABILITY IN A CHANCE CONTEXT**  
Kazak S.  
35th Annual Conference of the International-Group-for-the-Psychology-of-Mathematics-Education (PME), Ankara, Turkey, 10 - 15 July 2011, pp.465
- XXXVII. **Development of Ideas in Data and Chance Through the Use of Tools Provided By Computer Based Technology**  
KAZAK S., Konold C.  
8th International Conference on Teaching Statistics, 11 - 16 July 2010
- XXXVIII. **Modeling Random Binomial Rabbit Hops**  
Kazak S.  
13th International Conference on Teaching of Mathematical Modelling and Applications (ICTMA 13), Indiana, United States Of America, 22 - 26 July 2007, pp.561-570
- XXXIX. **Connecting Data and Chance**  
Konold C., KAZAK S.  
The Research Presession of the Annual Meeting of the National Council of Teachers of Mathematics, 7 - 09 April 2008
- XL. **To understand a distribution, try building it from scratch**

Konold C., KAZAK S., Lehrer R., Kim M.

The Fifth International Research Forum on Statistical Reasoning, Thinking, and Literacy (SRTL-5), England, 11 - 17 August 2007

- XXI. **Modeling random rabbit hops: Fourth-graders' reasoning about a binomial distribution**  
KAZAK S.  
The Thirteenth International Conference on Teaching of Mathematical Modeling and Applications (ICTMA-13), United States Of America, 22 - 26 July 2007
- XLII. **Educational research on how young students make sense of variability in probability situations: "Why is the distribution shaped this way?"**  
KAZAK S.  
The Third Annual Conference of the Turkish American Scientists and Scholars Association (TASSA), United States Of America, 24 - 25 March 2007
- XLIII. **Elementary school students informal and intuitive conceptions of probability distributions**  
KAZAK S., Confrey J.  
7th International Conference on Teaching Statistics (ICOTS7), 2 - 07 July 2006
- XLIV. **The role of inscriptions in students' understanding of a probability distribution**  
KAZAK S.  
The Research Pre-session of the Annual Meeting of the National Council of Teachers of Mathematics, United States Of America, 24 - 26 April 2006
- XLV. **Dealing with uncertainty: From the theoretical nature of probability to representations of data in chance events**  
KAZAK S., Confrey J.  
The Annual Meeting of American Educational Research Association (AERA), Canada, 11 - 15 April 2005
- XLVI. **Strengthening elementary and middle grades teachers' foundation for multiplicative structures based on the splitting conjecture**  
Confrey J., KAZAK S.  
Mathematics Education of Teachers (MET) Summit II, Follow-Up Conference, United States Of America, 04 January 2005
- XLVII. **The distractor analysis of Texas Assessment of Academic Skills (TAAS)**  
Confrey J., KAZAK S.  
The Annual Meeting of American Educational Research Association (AERA), United States Of America, 21 - 25 April 2003
- XLVIII. **Young urban students conceptions of data uses representation and analysis**  
Marshall J., Makar K., Kazak S.  
the Twenty-Fourth Annual Meeting of The North American Chapter of the International Group for the Psychology of Mathematics Education, Georgia, United States Of America, 26 - 29 October 2002, pp.1293-1304
- XLIX. **Matematik öğretmen adaylarının olasılık kavramları ile ilgili yeterliklerinin incelenmesi**  
BULUT S., KAZAK S., YETKİN ÖZDEMİR İ. E.  
Öğretmen Eğitiminde Çağdaş Yaklaşımlar Sempozyumu, Turkey, 18 - 20 March 1999
- L. **Çoklu zekâ kuramı öğretmen rolüne ilişkin görüşler ve düşünceler**  
Çakır Ö., KAZAK S., Yayla Yürük N., SUNGUR S.  
Öğretmen Eğitiminde Çağdaş Yaklaşımlar Sempozyumu, Turkey, 18 - 20 March 1999

## Other Publications

- I. **Olasılık öğretiminde farklı bir yaklaşım: İnanç ve frekans bakış açıları**  
Kazak S.  
Other, pp.93-97, 2022

## Supported Projects



2020 - 2022	Ortaokul Matematik Öğretmenlerinin Öğrencilerin Matematiksel Düşüncelerine Yönelik Mesleki Fark Etme Becerilerinin İncelenmesi ve Öğrenme Ortamına Aktarılması, TUBITAK Project
2017 - 2020	Strategic Partnership for Innovation in Data Analytics in Schools (SPIDAS), Erasmus Project
2018 - 2019	Gerçekçi Matematik Eğitiminin 6. Sınıf Öğrencilerinin İstatistiksel Düşünme ve Başarı Güdülerine Etkisi, Project Supported by Higher Education Institutions
2016 - 2018	Ortaokul Matematik Öğretmenlerinin İstatistiksel Akıl Yürütmeye İlişkin Alan ve Pedagojik Alan Bilgilerinin İncelenmesi, Project Supported by Higher Education Institutions
2012 - 2014	Studying the Development of Young Students' Conceptual Understanding in Statistics through Mediation by Technological Tools and Talk, FP7 Project
2011 - 2012	İNFORMEL ÇIKARSAMALI AKIL YÜRÜTMEDE İÇAY ÖĞRENCİLERİN ÖRNEKLEM VE ÖRNEKLEME HAKKINDAKİ AKIL YÜRÜTME VE DÜŞÜNME SÜREÇLERİ, Project Supported by Higher Education Institutions
2011 - 2012	İLKÖĞRETİMDE TEKNOLOJİ DESTEKLİ OLASILIK VE İSTATİSTİK ÖĞRETİMİ, Project Supported by Higher Education Institutions
2006 - 2008	Model Chance, Other International Funding Programs

### Activities in Scientific Journals

2023 - Continues	STATISTICS EDUCATION RESEARCH JOURNAL, Committee Member
2022 - Continues	Journal of Statistics and Data Science Education, Committee Member
2017 - Continues	Eğitim ve Bilim , Committee Member
2020 - 2022	THE STATISTICS EDUCATION RESEARCH JOURNAL (SERJ), Special Issue Editor

### Memberships / Tasks in Scientific Organizations

2021 - Continues	The International Association for Statistical Education (IASE), Vice President
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### Congress and Symposium Activities

2022	The Twelfth Congress of European Research in Mathematics Education (CERME12) , Working Group, Bolzano, Italy
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