**ÖZGEÇMİŞ**

**GENEL**

**Adı Soyadı :** Niyazi ERDOĞAN

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**Yazışma Adresi :** Balıkesir Üniversitesi Necatibey Eğitim Fakültesi Fen Bilgisi A.B.D. BALIKESİR

**Doğum Yeri ve Tarihi :** Kayseri/11.03.1984

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 **EĞİTİM**

|  |  |  |  |
| --- | --- | --- | --- |
| **Derece**  | **Alan**  | **Üniversite**  | **Yıl**  |
| Lisans  | Fen Bilgisi Eğitimi | Hacettepe Üniversitesi | 2007 |
| Y. Lisans  | Curriculum & Instruction | Texas A&M University | 2010 |
| Doktora  | Curriculum & Instruction | Texas A&M University | 2014 |

 **AKADEMİK VE MESLEKİ DENEYİM**

|  |  |  |  |
| --- | --- | --- | --- |
| **Ünvan** | **Alan**  | **Üniversite**  | **Yıl**  |
| Araş. Gör. | Curriculum & Instruction | Texas A&M University | 2010-2014 |
| Araş. Gör. Dr. | İlköğretim Fen Bilgisi A.B.D. | Balıkesir Üniversitesi | 2014- |

 **DOKTORA TEZİ**

**Doktora Tezi Başlığı:** Modeling Successful Inclusive STEM High Schools: An Analysis of Students’ College Entry Indicators in Texas

**Doktora Tezi Danışmanı:** Doç. Dr. Carol L. Stuessy

**BİLİMSEL KURULUŞLARA ÜYELİKLER**

National Association for Research in Science Teaching (NARST)

American Educational Research Association (AERA)

National Council of Teachers of Mathematics (NCTM)

Society for Information Technology and Teacher Education (SITE)

School Science and Mathematics Association (SSMA)

Southwest Educational Research Association (SERA)

 **BURSLAR**

M.E.B. 1416 Sayılı Kanun ile Yurt Dışında Yüksek Lisans ve Doktora Eğitimi 2007-2014

 **HAKEMLİKLER**

2015 Educational Sciences: Theory & Practice.

2015 International Journal of Education in Mathematics, Science and Technology.

2015 Faculty of Necatibey Education Electronic Journal of Science and Mathematics Education

2015 Journal of Research in Science Teaching (JRST).

2015 American Educational Research Association (AERA).

 National Association for Research in Science Teaching (NARST)

2014 National Association for Research in Science Teaching (NARST).

2014 Journal of Research in Science Teaching (JRST).

2013 National Association for Research in Science Teaching (NARST).

 American Educational Research Association (AERA).

2012 National Association for Research in Science Teaching (NARST).

 National Council of Teachers of Mathematics (NCTM).

 American Educational Research Association (AERA).

2011 National Association for Research in Science Teaching (NARST).

 Southwest Educational Research Association (SERA).

 **EDİTÖRLÜKLER**

2015 Yardımcı Editör, Necatibey Faculty of Education Electronic Journal of Science and Mathematics Education.

2015 Yardımcı Editör, International Journal of Education in Mathematics, Science and Technology.

2015 Misafir Editör, International Journal of Education in Mathematics, Science and Technology. Special issue on STEM education.

 **YAYINLAR**

**SCI (Science Citation Index), SCI-Expanded, SSCI (Social Science Citation Index) AHCI (Arts and Humanities Citation Index) ve Üniversitelerarası Kurulca benimsenen diğer alan indeksleri tarafından taranan dergilerde yayımlanan; teknik not, editöre mektup, tartışma, vaka takdimi ve özet türünden yayınlar dışındaki makaleler**

**Erdogan, N.,** Navruz, B., Younes, R., & Capraro, R. M. (2016). Viewing STEM PBL influence on student science learning through the implementation lens: Latent growth modeling. *Eurasia Journal of Mathematics, Science and Technology Education, 12*(8), 2139-2154. DOI: 10.12973/eurasia.2016.1294a

**Erdogan, N.** (2016). Communities of practice in online learning environments: A sociocultural perspective of science education. *International Journal of Education in Mathematics, Science and Technology, 4*(3),246-257. DOI:10.18404/ijemst.20679

**Erdogan, N.,** &Stuessy, C. L. (2016). Examining inclusive STEM schools’ role in the college and career readiness of students in the United States: A multi-group analysis of students’ achievement outcomes. *Educational Sciences: Theory & Practice, 16*(1), 1-14*.* **DOI:** 10.12738/estp.2016.1.0072

**Erdogan, N.,** &Stuessy, C. L.(2015). Modeling successful STEM high schools in the United States: An ecology framework. *International Journal of Education in Mathematics, Science and Technology, 3*(1), 77-92.

**SCI, SCI-Expanded, SSCI, AHCI ve Üniversitelerarası Kurulca benimsenen diğer alan indeksleri dışındaki indeks ve özler tarafından taranan dergilerde yayımlanan; teknik not, editöre mektup, tartışma, vaka takdimi ve özet türünden yayınlar dışındaki makaleler**

Kilinc, E., **Erdogan, N.,** Cavlazoglu, B., & Burlbaw, L. M.(2014). John Dewey’s impacts on the 1924 Turkish elementary school curriculum: A conceptual content analysis. *Ozean Journal of Social Sciences, 7*(2), 27-38.

Navruz, B., **Erdogan, N.,** Bicer, A., Capraro, R. M., & Capraro, M. M. (2014). Would a STEM school ‘by any other name smell as sweet’? *International Journal of Contemporary Educational Research*, *1*(2), 67-75.

**Erdogan, N.,** Corlu, M. S., & Capraro, R. M. (2013). Defining innovation literacy: Do robotics programs help students develop innovation literacy skills? *International Online Journal of Educational Sciences, 5*(1), 1-9.

Sahin A., **Erdogan, N.,** Morgan, J., Capraro, M. M., & Capraro, R. M. (2012). The effects of high school course taking and SAT scores on college major selection. *Sakarya University Journal of Education, 2*(3), 96-109.

Corlu, M. S., **Erdogan, N.,** & Sahin, A. (2011). A comparative study of South Korea and Turkey: Attitudes and beliefs of middle school mathematics teachers. *Journal of the Korea Society of Mathematical Education Series D: Research in Mathematical Education*, *15*(3), 295-310.

**Ulusal hakemli dergilerde yayımlanan; teknik not, editöre mektup, tartışma, vaka takdimi ve özet türünden yayınlar dışındaki makaleler**

Delen, I., Sen, S., & **Erdogan, N.** (2015).Investigating Teacher Certificate Program in Turkey: Candidates’ Technology, Content and Pedagogy Readiness. *Necatibey Faculty of Education Electronic Journal of Science and Mathematics Education, 9*(2), 252-274*.*

**SCI (Science Citation Index), SCI-Expanded, SSCI (Social Science Citation Index) AHCI (Arts and Humanities Citation Index) ve Üniversitelerarası Kurulca benimsenen diğer alan indeksleri tarafından taranan dergilerde yayımlanan; teknik not, editöre mektup, tartışma, vaka takdimi ve özet türünden yayınlar**

Cavlazoglu, B., **Erdogan, N.,** Paine, T. A., & Jones, M. (2013). Test Review: Anger Regulation and Expression Scale. *Journal of Psychoeducational Assessment*, *31*(1), 85-89. DOI: 10.1177/0734282912447762

**BİLDİRİLER**

**Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında (*Proceedings*) basılan bildiriler**

Bicer, A., Cavlazoglu, B., **Erdogan, N.** (2013). Integrating Google+ into mathematics classrooms as a communication tool*.* In Proceedings of Society for Information Technology & Teacher Education International Conference 2013 (pp. 3046-3048). Chesapeake, VA: AACE. Retrieved from <http://www.editlib.org/p/48561>.

Slough, S., **Erdogan, N.,** Cavlazoglu, B., Wakefield, J., & Akgun, O. E. (2012). Designers discussing design: An investigation into the design of an innovative science textbook designed to take advantage of multi-touch tablet technology and the cloud. In T. Amiel & B. Wilson (Eds.), *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2012* (pp. 1227-1232). Chesapeake, VA: AACE. Retrieved from <http://www.editlib.org/p/40907>.

Sahin, A., Akgun, O. E., & **Erdogan, N.** (2012). How Computer Course Enrollment is Related with Students STEM Major Choice, AP Taking, SAT Scores, Gender and Socio Economic Level. In P. Resta (Ed.), Proceedings of Society for Information Technology & Teacher Education International Conference 2012 (pp. 4297-4302). Chesapeake, VA: AACE. Retrieved from <http://www.editlib.org/p/40289>.

Cavlazoglu, B., Cetin, S. C., **Erdogan, N.,** Akgun, O. E., & Stuessy, C. L. (2012). Learners’ views on designing functional models with robotics: A case study. In P. Resta (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2012* (pp. 4350-4354). Chesapeake, VA: AACE. Retrieved from <http://www.editlib.org/p/40299>.

Slough, S., Cavlazoglu, B., **Erdogan, N.,** & Akgun, O. E. (2012). Descriptive analysis of a sixth-grade Turkish science text with recommendations for development of future e-resources for multi-touch tablets. In P. Resta (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2012* (pp. 4537-4542). Chesapeake, VA: AACE. Retrieved from <http://www.editlib.org/p/40327>.

**Uluslararası bilimsel toplantılarda sunulan bildiriler**

Cavlazoglu, B.,& **Erdogan, N.** (2016, May). *Creating an engineering knowledge base for STEM integration: A modified delphi study.* Paper presented at the International Conference on Education in Mathematics, Science, & Technology (ICEMST), Bodrum, Turkey.

**Erdogan, N.,** Oner, A. T., Capraro, R. M., & Capraro, M. M. (2016, April). *Examination of students' attitudes towards STEM and interest in STEM careers: A STEM camp example*. Paper will be presented at the annual conference of National Association for Research in Science Teaching (NARST), Baltimore, MD.

**Erdogan, N.,** Oner, A. T., Capraro, R. M., & Capraro, M. M. (2015, April). *Effects of input and process factors on academic achievement in Texas public high schools.* Paper presented at International Conference on Education in Mathematics, Science and Technology (ICEMST), Antalya, Turkey.

Delen, I., Sen, S., & **Erdogan, N.** (2015, April).*Investigating technology, content, and pedagogy readiness of pre-service teachers attending teacher certificate program in Turkey.* Paper presented at International Conference on Education in Mathematics, Science and Technology (ICEMST), Antalya, Turkey.

Stuessy, C., **Erdogan, N.,** &Bozeman, D. (2015, April). *Comparing state-mandated outcomes of STEM and traditional high schools.* Paper presented at the annual narstconference of National Association for Research in Science Teaching (NARST), Chicago, IL.

**Erdogan, N.,** Stuessy, C., &Bozeman, D. (2015, April). *Examining inclusive STEM schools' role in college and career readiness of students: A multi-group analysis.* Paper presented at the annual conference of National Association for Research in Science Teaching (NARST), Chicago, IL.

**Erdogan, N.,** &Stuessy, C.(2015, April). *College and career readiness of inclusive STEM high school graduates: A multi-group analysis.* Paper presented at the annual meeting of American Educational Research Association (AERA), Chicago, IL.

Bicer, A., Navruz, B., **Erdogan, N.,** Capraro, M. M., & Capraro, R. M.(2015, April). *STEM schools vs. non-STEM schools: comparing students’ mathematics growth rate on high-stakes test performance.* Paper presented at the annual meeting of American Educational Research Association (AERA), Chicago, IL.

**Erdogan, N.,** Oner, A. T., Sahin, A., Capraro, M. M., & Capraro, R. M. (2014, March). *An exploratory study: How do extracurricular robotics activities change students' attitudes toward science?* Paper presented at the annual conference of National Association for Research in Science Teaching (NARST), Pittsburgh, PA.

Oner, A. T., Navruz, B., Bicer, A., **Erdogan, N.,** Peterson, C., Capraro, R. M., Capraro, M. M. (2014, February). *A longitudinal examination of T-STEM academies’ academic performance by education service center*. Paper presented at the annual meeting of Southwest Educational Research Association (SERA), New Orleans, LA.

Navruz, B., **Erdogan, N.,** Capraro, M. M., & Capraro, R. M. (2014, February). *Examination of STEM students vs. non-STEM students’ mathematics and reading achievement: A longitudinal study.* Paper presented at the annual meeting of Southwest Educational Research Association (SERA), New Orleans, LA.

Navruz, B., **Erdogan, N.,** Sahin, A., Capraro, R. M., & Capraro, M. M. (2014, February). How do students do on math test when their schools turn into STEM? Paper presented at the annual meeting of Southwest Educational Research Association (SERA), New Orleans, LA.

Capraro, M. M., Capraro, R. M., **Erdogan, N.,** Sahin, A., Jones, T., & Oner, A. T. (2013, November). *Engaging STEM students through project-based activities.* Paper presented at the annual meeting of School Science and Mathematics Association (SSMA), San Antonio, TX.

Navruz, B., **Erdogan, N.,** Bicer, A., & Capraro, R. M. (2013, November). *A Longitudinal Study: Does STEM education really help students achieve on math?* Paper presented at the annual meeting of School Science and Mathematics Association (SSMA), San Antonio, TX.

**Erdogan, N.,** Navruz, B., Cavlazoglu, B., & Bicer, A. (2013, November). *Does TAKS measure the same math knowledge in STEM and non-STEM schools?* Paper presented at the annual meeting of School Science and Mathematics Association (SSMA), San Antonio, TX.

**Erdogan, N.,** Bozeman, D., & Stuessy, C. D. (2013, November). *A mixed methods analysis: Applying an ecology metaphor in science program infrastructure*. Paper presented at the annual meeting of School Science and Mathematics Association (SSMA), San Antonio, TX.

**Erdogan, N.,** Oner, A. T., Cavlazoglu, B., Capraro, R. M., & Capraro, M. M. (2013, September). *A case study: The effect of STEM activities on students’ attitudes toward science.* Paper presented at the annual meeting of European Conference on Educational Research (ECER), Istanbul, Turkey.

Oner, A. T., **Erdogan, N.,** Sahin, A., Capraro, M. M., & Capraro, R. M. (2013, April). *An investigation of state based data: What factors affects STEM schools’ math and science performance?* Paper presented at the annual meeting of American Educational Research Association (AERA), San Francisco, CA.

Sahin, A., Akgun, O. E.,**Erdogan, N.,**Oren, M., Capraro, R. M. & Capraro, M. M. (2013, April). *Exploring benefits of an international science olympiad: STEM career interests.* Paper presented at the annual conference of National Association for Research in Science Teaching (NARST), Rio Grande, Puerto Rico.

Capraro, M. M., Capraro, R. M., Morgan, J., Sahin, A., & **Erdogan, N.** (2013, April). *Long-term effects of science focused summer camp on SAT scores.* Paper presented at the annual conference of National Association for Research in Science Teaching (NARST), Rio Grande, Puerto Rico.

Sahin, A., Akgun, O. E., **Erdogan, N.,** Capraro, R. M., Capraro, M. M., & Oner, A T. (2013, February). *Effects of a summer camp on students’ motivational factors and learning strategies.* Paper presented at the annual conference of Southwest Educational Research Association (SERA), San Antonio, TX.

**Erdogan, N.,** Navruz, B., & Sahin, A. (2013, February). *Evaluation of multivariate normality with heuristic examples.* Paper presented at the annual conference of Southwest Educational Research Association (SERA), San Antonio, TX.

Younes, R. G., Jones, M. M., **Erdogan, N.,** Navruz, B., & Capraro, R. M. (2013, February). *A Longitudinal Study: The impact of STEM PBL on students’ science achievement*. Paper presented at the annual conference of Southwest Educational Research Association (SERA), San Antonio, TX.

Sahin, A., Akgun, O. E., **Erdogan, N.,** Cavlazoglu, B., Cetin, C. S., Capraro, R. M., & Capraro, M. M. (2012, November). *Effects of STEM-Related activities on high school students’ motivation, learning strategy use, and self-regulation.* Paper presented at the annual meeting of School Science and Mathematics Association (SSMA), Birmingham, AL.

Sahin, A., Akgun, O. E., **Erdogan, N.,** Cavlazoglu, B., Cetin, C. S., Capraro, R. M., & Capraro, M. M. (2012, November). *The students on the stage: Results of a new model to engage students in a successful afterschool STEM program.*Paper presented at the annual meeting of School Science and Mathematics Association (SSMA), Birmingham, AL.

Cavlazoglu, B., **Erdogan, N.,** & Kilinc, E. (2012, October). *The effects of the First World War on Turkish elementary teacher education curriculum.* Paper presented at the annual meeting of the National Organization of Educational Historians (OEH), Chicago, IL.

Sahin, A., Morgan, J., & **Erdogan, N.** (2012, June). *Curricular pathways in high school settings that lead to STEM majors*. Paper presented at the annual meeting of American Society for Engineering Education (ASEE), San Antonio, TX.

**Erdogan, N.,** & Corlu, M. S. (2012, April). *A Case Study: Investigating an innovative course to improve innovation literacy*. Paper presented at the annual meeting of American Educational Research Association (AERA), Vancouver, Canada.

Corlu, M. S., **Erdogan, N.** & Capraro, R. M. (2012, April). *Developing mathematics and science literacy through robotics systems.* Paper presented at the annual meeting of National Council of Teachers of Mathematics (NCTM) Research Pre-session, Philadelphia, PA.

**Erdogan, N.,** Ayar, M. C., Corlu, M. S., Capraro, M. M., & Sahin, A. (2012, March). *Exploring a summer camp based on Robotics activities prepared for underrepresented groups: A pilot study.* Paper presented at the annual conference of National Association for Research in Science Teaching (NARST), Indianapolis, IL.

**Erdogan, N.** (2012, February). *A primer on "corrected" versus "uncorrected" effect sizes*. Paper presented at the annual conference of Southwest Educational Research Association (SERA), New Orleans, LA.

Ayar, M. C., **Erdogan, N.,** & Cavlazoglu, B. (2011, November). *Model inquiry design.* Paper presented at the annual meeting of School Science and Mathematics Association (SSMA), Colorado Spring, CO.

Kilinc, E., Cavlazoglu, B., & **Erdogan, N.** (2011, October). *John Dewey’s impacts on 1924 Turkish elementary school curriculum: A content analysis.* Paper presented at the annual meeting of the National Organization of Educational (OEH) Historians, Chicago, IL.

Ayar, M. C., **Erdogan, N.,** & Cavlazoglu, B. (2010, October). *Proposing a model to differentiate teaching science.* Paper presented at the annual meeting of The Southwest Association for Science Teacher Educators (SW-ASTE), Stillwater, OK.

 **YAZILAN ULUSLARARASI KİTAPLAR VEYA KİTAPLARDA BÖLÜMLER**

**Erdogan, N.,** & Bozeman, D. (2015). Models of project-based learning for the 21st century. In A. Sahin (Ed.), *A practice-based model of STEM teaching: STEM students on the stage (S.0.S.)* (p. 31-42). Netherlands: Sense Publishers.

 **PROJELER**

**Erdogan, N.** (2015). Ortaöğretim Fizik Dersi İçin E-içerik Geliştirme ve Öğrencilerin Bu İçeriğe Yönelik Tutumlarının Değerlendirilmesi BAP.2015.16

**Erdogan, N.** (2016). Bütünleşik Öğretmenlik Bilgisi ve Becerileri: Hesaplamalı (Bilişimsel) Düşünme BAP.2016.01

 **DİĞER BİLİMSEL ETKİNLİKLER**

2014, Kamp Koordinatörlüğü, Aggie-STEM Yaz Kampı 2. Dönem, Department of Teaching Learning and Culture, Texas A&M University, College Station, TX, USA

2014, Kamp Koordinatörlüğü, Aggie-STEM Yaz Kampı 2. Dönem, Department of Teaching Learning and Culture,

Texas A&M University, College Station, TX, USA

2013, Kamp Koordinatörlüğü, Aggie-STEM Yaz Kampı, Department of Teaching Learning and Culture, Texas A&M University, College Station, TX, USA

2016, International Conference on Education in Mathematics, Science and technology (Organizasyon Komitesi Üyesi)

2012, Kamp Koordinatör Yardımcılığı, Aggie-STEM Yaz Kampı, Department of Teaching Learning and Culture, Texas A&M University, College Station, TX, USA

2011, Kamp Koordinatör Yardımcılığı, Aggie-STEM Yaz Kampı, Department of Teaching Learning and Culture, Texas A&M University, College Station, TX, USA

2010, Rehber Öğretmenlik, Aggie-STEM Yaz Kampı, Department of Teaching Learning and Culture, Texas A&M University, College Station, TX, USA

 **ÖDÜLLER**

2015 TÜBİTAK Yayın Teşvik Ödülü

2014 Ayrıcalıklı Onur Mezunu Ödülü (Distinguished Honor Graduate)

College of Education and Human Development at Texas A&M University

2013 Kongre Seyehat Ödülü

 New York TürkEğitim Ataşeliği, Milli Eğitim Bakanlığı

2013 Kongre Seyehat Ödülü

Department of Teaching, Learning and Culture, Texas A&M University

2012 Kongre Seyehat Ödülü

 New York TürkEğitim Ataşeliği, Milli Eğitim Bakanlığı

2012 Kongre Seyehat Ödülü

Office of Graduate Studies, Texas A&M University

2012 Kongre Seyehat Ödülü

Department of Teaching, Learning and Culture, Texas A&M University

2011 Kongre Seyehat Ödülü

The Korea Society of Mathematical Education (KSME)

2007 Yurtdışı Lisansüstü Eğitim Bursu

Milli Eğitim Bakanlığı