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Personal Information

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International Researcher IDs

ORCID: 0000-0001-7821-6344

Yoksis Researcher ID: 55381

Education Information

Doctorate, Ohio State University, Graduate School, Science Education, United States Of America 2001 - 2006

Postgraduate, Ohio State University, Graduate School, Science Education, United States Of America 1999 - 2001

Undergraduate, Ege University, Faculty Of Science, Biyoloji, Turkey 1993 - 1997

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Examining the effects of a DNA fingerprinting workshop on science teachers' professional development and student learning, Ohio State University, College Of Education / Science Education, 2006

Research Areas

Social Sciences and Humanities, Education, Education in Natural Sciences, Education in Biology

Academic Titles / Tasks

Associate Professor, Hacettepe University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2018 - Continues

Associate Professor, Hacettepe University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2017 - Continues

Assistant Professor, Hacettepe University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2013 - 2018

Lecturer PhD, Hacettepe University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2007 - 2013

Academic and Administrative Experience

Hacettepe Üniversitesi, Eğitim Fakültesi, İlköğretim Bölümü, 2015 - 2016

Hacettepe Üniversitesi, Eğitim Fakültesi, 2013 - 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **How to Use Dynamic Statistical Software for Biological Investigations?**
SÖNMEZ D., Ozgun-Koca S. A.
AMERICAN BIOLOGY TEACHER, no.1, 2025 (SCI-Expanded)
- II. **Preparing to teach in informal settings: preservice science teachers' experiences in a natural history museum**
SÖNMEZ D., Öztürk N.
International Journal of Science Education, vol.44, no.18, pp.2724-2744, 2022 (SSCI)
- III. **An Integrated Biology & Mathematics Activity to Investigate Photosynthesis & Linear Relationships**
SÖNMEZ D., Ozgun-Koca S. A.
AMERICAN BIOLOGY TEACHER, vol.82, no.7, pp.488-493, 2020 (SCI-Expanded)
- IV. **Videos as an Instructional Tool in Pre-service Science Teacher Education**
SÖNMEZ D., Hakverdi-Can M.
EGITIM ARASTIRMALARI-EURASIAN JOURNAL OF EDUCATIONAL RESEARCH, vol.12, no.46, pp.141-158, 2012 (SSCI)
- V. **THE BRIDGE BETWEEN MOTIVATION AND IMPLEMENTATION; AN INSIDE LOOK TO PROFESSIONAL DEVELOPMENT**
SÖNMEZ D., Haury D.
HACETTEPE UNIVERSITESI EGITIM FAKULTESI DERGISI-HACETTEPE UNIVERSITY JOURNAL OF EDUCATION, no.40, pp.353-362, 2011 (SSCI)

Articles Published in Other Journals

- I. **The Effects of a Robotics Program on Preschool-Students' Creative Thinking Skills**
Kabadayi G. S., SÖNMEZ D.
HACETTEPE UNIVERSITESI EGITIM FAKULTESI DERGISI-HACETTEPE UNIVERSITY JOURNAL OF EDUCATION, vol.39, no.3, pp.260-270, 2024 (ESCI)
- II. **Integrating Biology and Mathematics Using IMS-TEAM Framework**
SÖNMEZ D.
PEGEM EGITIM VE OGRETIM DERGISI, no.3, pp.219-229, 2024 (ESCI)
- III. **Creating meaningful experiences for pre service teachers thoughts and experiences on an elective course**
SÖNMEZ D.
International Journal of Progressive Education, vol.11, no.2, pp.29-38, 2015 (Peer-Reviewed Journal)
- IV. **A model for pre-service teachers' climate change awareness and willingness to act for pro-climate change friendly behavior: adaptation of awareness to climate change questionnaire**
Dal B., Alper U., Ozdem-Yilmaz Y., Ozturk N., SÖNMEZ D.
INTERNATIONAL RESEARCH IN GEOGRAPHICAL AND ENVIRONMENTAL EDUCATION, vol.24, no.3, pp.184-200, 2015 (ESCI)
- V. **Perception of Climate Change Reasons Consequences and Willingness to Act How Aware are They**
DAL B., ÖZTÜRK N., Umut A., SÖNMEZ D., Emin Mısıır M., ÇÖKELEZ A.
Cross-Disciplinary Subjects in Education (IJCDSE), vol.4, no.2, pp.1930-1937, 2015 (Peer-Reviewed Journal)
- VI. **What is that thing called climate change? An investigation into the understanding of climate change by seventh-grade students**
Ozdem Y., Dal B., Ozturk N., SÖNMEZ D., Alper U.
INTERNATIONAL RESEARCH IN GEOGRAPHICAL AND ENVIRONMENTAL EDUCATION, vol.23, no.4, pp.294-313, 2014 (ESCI)
- VII. **Learning how to design a technology supported inquiry based learning environment**
HAKVERDİ CAN M., SÖNMEZ D.

Science Education International, vol.23, no.4, pp.338-352, 2012 (Peer-Reviewed Journal)

VIII. **Problem Based Learning in Science ED482724**

SÖNMEZ D., Hyonyong L.

ERIC DIGEST, 2003 (Non Peer-Reviewed Journal)

Books

I. **Bölüm 17. DNA Elektroforez ile STEM. Kalıtıma Farklı Senaryolarla Bakış**

SÖNMEZ D.

in: Fen Bilimleri Öğretimi ve STEM Etkinlikleri, Ahmet Tekbıyık, Gültekin Çakmakçı, Editor, Nobel, Ankara, pp.415-427, 2018

II. **Bölüm 6: Durumlar İçi Gösterimler: Açıklamak ve Tahmin Etmek**

SÖNMEZ D.

in: Nitel Veri Analizi, Akbaba Altun Sadegül, Ersoy Ali, Editor, Pegem Akademi, Ankara, pp.143-171, 2015

III. **Bölüm 8: Öykünüzün Oluşturulması: Nitel Verinin Yazımı**

SÖNMEZ D.

in: Nitel Araştırmaya Giriş, Ersoy, Ali; Yalçınoğlu, Pelin, Editor, Anı Yayıncılık, Ankara, pp.301-332, 2014

Papers Published in Refereed Scientific Meetings

I. **System Understanding where we are a look into science education**

SÖNMEZ D.

INTE 2015 - International Conference on New Horizons in Education, Barselona, Spain, 10 - 12 June 2015, pp.470-475

II. **How prior knowledge and colour contrast interfere visual search processes in novice learners An eye tracking study**

SÖNMEZ D., ALTUN A., MAZMAN S. G.

IADIS International Conference Cognition and Exploratory Learning in Digital Age, Madrid, Spain, 19 - 21 October 2012, pp.42-49

III. **Modelleme Yöntemiyle Genetik Eğitimi**

SÖNMEZ D., HAKVERDİ CAN M.

IX. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, İzmir, Turkey, 23 - 25 September 2010, pp.182

IV. **Affects of a microteaching course on student teaching practice**

SÖNMEZ D.

European Conference on Educational Resarch 2012, Cadiz, Spain, 17 - 21 September 2012

V. **From Idea to Reality: Establishing Science Centers for Pre-service Teachers**

KAPTAN F., HAKVERDİ CAN M., SÖNMEZ D., BEKTAŞLI B., BAYRAM Z., BATI K., ALBAYRAK SARI A.

The International Symposium on Science Centers and Sustainable Development, İstanbul, Turkey, 11 - 13 June 2012

VI. **Preservice science teachers' ability to identify good teaching practices**

SÖNMEZ D., HAKVERDİ CAN M.

2nd World Conference on Educational Sciences (WCES-2010), İstanbul, Turkey, 4 - 08 February 2010, vol.2, pp.4120-4124

VII. **İnternet Ortamında Öğretime Farklı Bir Yaklaşım Webquest**

HAKVERDİ CAN M., SÖNMEZ D.

18. Ulusal Eğitim Bilimleri Kurultayı, Kuşadası, Turkey, 1 - 03 October 2009, pp.152

VIII. **Fen Ve Teknoloji Öğretmen Adaylarının Bilgisayar Kullanımına Verdikleri Değer Düzeyleri Üzerine Bir Çalışma**

SÖNMEZ D., HAKVERDİ CAN M.

18. Ulusal Egitim Bilimleri Kurultayı, Kuşadası, Turkey, 1 - 03 October 2009, pp.133

IX. Evolution Of Environmental Education Content in Science Curricula in Turkey

SÖNMEZ D., HAKVERDİ CAN M., KORKMAZ H.

13th Symposium of the International Organization for Science and Technology Education (IOSTE), Aydın, Turkey, 21 - 26 September 2008, pp.1213-1217

X. Factors Influencing Pre Service Teachers Perception of Internet Identification

HAKVERDİ CAN M., GÜCÜM E. B., KORKMAZ H., SÖNMEZ D.

13th Symposium of the International Organization for Science and Technology Education (IOSTE), Aydın, Turkey, 21 - 26 September 2008, pp.1208-1212

XI. Excavating The Layers And Reconstructing The Story Of Teaching Evolution

YALÇINOĞLU P., SÖNMEZ D., DAY R., HAURY D. L.

NARST 2006 Konferansı, San-Francisco, Costa Rica, 15 - 17 April 2006

XII. Conflict Concerns And Challenges Ohio Teachers Struggle To Teach Evolution

SÖNMEZ D., DAY R., YALÇINOĞLU P., HAURY D. L.

NARST 2006 Konferansı, San-Francisco, Costa Rica, 15 - 17 April 2006

XIII. Science Fiction Movies as a Tool for Revealing Students Knowledge and Alternative Conceptions

Öngel Erdal S., SÖNMEZ D., Day R.

NARST 2004 Konferansı, Vancouver, Canada, 1 - 03 April 2004

XIV. Teaching science through science fiction An emerging conceptual framework reflecting reported practices

HAURY D. L., SÖNMEZ D., YALÇINOĞLU P.

NARST 2004 Konferansı, Vancouver, Canada, 1 - 03 April 2004

Expert Reports

I. Risk Altındaki Kız Çocukların Gelecek ve Meslek Algılarının Çizdikleri Resimlere Yansıma Biçimleri

SÖNMEZ D.

2015

Supported Projects

SÖNMEZ D., YILMAZ A., BATI K., ÖZEN Z. Z., Project Supported by Higher Education Institutions, Fen Bilgisi Eğitimi ve Okul Öncesi Eğitimi Öğretmen Adaylarının Eğitimine Yönelik Sensör ve Tablet Teknolojileri Altyapılarının Kurulması ve Etkilerinin Araştırılması, 2014 - 2017

SÖNMEZ D., Project Supported by Higher Education Institutions, Sistem Anlayışı, Neredeyiz? Fen Bilimleri Eğitimine Bir Bakış, 2015 - 2015

SÖNMEZ D., TUBITAK Project, Bilim Teknoloji Tasarım Hikayeleri Ekosistemler, 2014 - 2014

Metrics

Publication: 31

Citation (WoS): 32

Citation (Scopus): 76

H-Index (WoS): 3

H-Index (Scopus): 4

Non Academic Experience

OSCI projesi - Ohio Department of Education, danışman - eğitimci