

CURRICULUM VITAE

EBRU KAYA, Ph.D.

Personal Information

Academic Title : Associate Professor
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Mail Address : Bogazici University, Faculty of Education, Department of Primary Education, 34342, Bebek, Istanbul/ TURKEY
E-mail : ebru.kaya@boun.edu.tr

Educational Background

B.S.&M.S. **University** : Dokuz Eylul University
Faculty : Faculty of Education
Department : Secondary Science and Mathematics Education/Chemistry Education
Year of Graduation : 2003

Ph.D. **University** : Middle East Technical University
Faculty : Faculty of Education
Department : Secondary Science and Mathematics Education/Chemistry Education
Title of Dissertation : The Effect of Conceptual Change Based Instruction on Students' Understanding of Rate of Reaction Concepts
Supervisor : Prof. Dr. Omer Geban
Year of Graduation : 2011

Academic Experience

Title	Affiliation	Year
Associate Professor	Bogazici University, Istanbul, Turkey	August 2014-
Associate Professor	Selcuk University, Konya, Turkey	January 2014-August 2014
Post-Doc Researcher	Middle East Technical University, Ankara, Turkey	April 2013-April 2014

Graduate Research Assistant	Selcuk University, Konya, Turkey	October 2011- January 2014
Visiting Scholar	University of Bristol, Bristol, United Kingdom	January 2009- January 2010
Research Assistant	Middle East Technical University, Ankara, Turkey	April 2004- October 2011

Research Interests

Nature of Science
 Argumentation in Science Education
 Misconceptions and Conceptual Change in Chemistry
 Epistemological Perspectives in Science Education
 Attitude towards Science/Chemistry- Science Anxiety

Publications

Articles published in the journals that are indexed in SCI (Science Citation Index), SSCI (Social Science Citation Index), AHCI (Arts and Humanities Citation Index)

1. Cetin, P. S., Kaya, E., & Geban, O. (2009). Facilitating conceptual change in gases concepts. *Journal of Science Education and Technology*, 18(2), 130-137.
2. Kaya, E. & Geban, O. (2012). Facilitating conceptual change in rate of reaction concepts using conceptual change oriented instruction. *Education and Science*, 37(163), 216-225.
3. Aydeniz, M., Pabuccu, A., Cetin, P. S., & Kaya, E. (2012). Argumentation and students' conceptual understanding of properties and behaviors of gases. *International Journal of Science and Mathematics Education*, 10, 1303-1324. doi: 10.1007/s10763-012-9336-1.
4. Kaya, E. & Erduran, S. (2013). Integrating epistemological perspectives on chemistry in chemical education: The cases of concept duality, chemical language, and structural explanations. *Science & Education*, 22(7), 1741-1755. doi: 10.1007/s11191-011-9399-3.
5. Kaya, E. (2013). Argumentation practices in classroom: Pre-service teachers' conceptual understanding of chemical equilibrium. *International Journal of Science Education*, 35(7), 1139-1158. doi:10.1080/09500693.2013.770935.
6. Erduran, S. & Kaya, E. (in press). Scientific argumentation and deliberative democracy: An incompatible mix in school science? *Theory into Practice*.
7. Kaya, E., & Erduran, S. (in press). From FRA to RFN : How the Family Resemblance Approach can be transformed for science curriculum analysis on nature of science, *Science & Education*.

Articles published in the journals that are not indexed in SCI, SSCI, and AHCI

1. Kaya, E., Erduran, S., & Cetin, P. S. (2010). High school students' perceptions of argumentation. *Procedia - Social and Behavioral Sciences*, 2(2), 3971-3975.
2. Kaya, E. & Geban, O. (2011). The effect of conceptual change based instruction on students' attitudes toward chemistry. *Procedia - Social and Behavioral Sciences*, 15, 515-519.
3. Aydeniz, M. & Kaya, E. (2012). Factors impacting Turkish students' attitudes towards science and their academic performance in science. *Journal of Turkish Science Education*, 9(2), 25-48.
4. Kaya, E. & Cetin, P. S. (2012). Investigation of pre-service chemistry teachers' chemistry laboratory anxiety levels. *International Journal of New Trends in Education and Their Implications*, 3(3), 90-98.
5. Kaya, E., Erduran, S., & Cetin, P. S. (2012). Discourse, argumentation, and science lessons: Match or mismatch in high school students' perceptions and understanding? *Mevlana International Journal of Education*, 2(3), 1-32.
6. Kaya, E., Cetin, P. S., & Yildirim, A. (2012). Transformation of centralized curriculum into classroom practice: An analysis of teachers' experiences. *International Journal of Curriculum and Instructional Studies*, 2(3), 103-113.

Articles published in the National Journals

1. Akcay, H. Alpat, S. K, Oter, O., Demir, D., Ozbayrak, O., Kaya, E., Acar, B., & Bekci, Z. (2001). Analitik kimyada aktif öğrenme: Asit baz indikatörlerinin değişik çözgenlerde öğrenci tasarımı titrasyon uygulamaları. *Buca Eğitim Fakültesi Dergisi*, 13, 69-74.
2. Cetin, P. S., Erduran, S., & Kaya, E. (2010). Understanding the nature of chemistry and argumentation: The case of pre-service chemistry teachers. *Kırşehir Üniversitesi Eğitim Fakültesi Dergisi (KEFAD)*, 11(4), 41-59.
3. Kaya, E. & Yildirim, A. (2014). Science anxiety among failing students. *Elementary Education Online*, 13(2), 518-525.
4. Kaya, E., Cetin, P. S., & Erduran, S. (2014). Adaptation of two argumentation tests in Turkish. *Elementary Education Online*, 13(3), 1014-1032.
5. Cetin, P. S., Kutluca, A. Y., & Kaya, E. (2014). Öğrencilerin argümantasyon kalitelerinin incelenmesi. *Fen Bilimleri Öğretimi Dergisi*, 2(1), 56-66.
6. Cetin, P. S., Kaya, E., & Geban, O. (2014). Students', pre-service teachers', and in-service teachers' views about constructivist implementations. *Necatibey Eğitim Fakültesi Dergisi*, 8(2), 143-163.
7. Cetin, P. S., Metin, D., & Kaya, E. (in press). Laboratuvar uygulamalarında yeni bir yaklaşım: Argüman temelli sorgulayıcı araştırma (ATSA). *Kırşehir Eğitim Fakültesi Dergisi*.

Book Chapters

1. Erduran, S., Kaya, E., & Dagher, Z. (in press). From lists in pieces to coherent wholes: Revisiting the nature of science in science education. In, J. Yeo, T. W. Teo & K. S. Tang (Eds.), *Research and Practice in the Asia-Pacific Region*, Dordrecht: Springer.
2. Erduran, S., Kaya, E., & Cetin, P. S. (in press). Epistemic grounding of conceptual change, argumentation, models and explanations: Why it matters for science education. In, T. Amin, & O. Levrini (Eds.), *Converging and Complementary Perspectives on Conceptual Change*. London: Routledge.

Conference Papers presented in the international conferences and published in the proceedings

1. Cetin, A., Kaya, E., & Geban, O. (2005). *Facilitating conceptual change in acid-base concepts*. Proceedings of the British Educational Research Association (BERA) Annual Conference, Cardiff, United Kingdom.
2. Kaya, E., Bozkoyun, Y., & Geban, O. (2006). *Facilitating conceptual change in learning rate of reaction concepts*. Proceedings of the NARST (A Worldwide Organization for Improving Science Teaching and Learning Through Research) Annual Conference, San Francisco, CA.
3. Kaya, E. & Yildirim, A. (2008). *Science anxiety among failing students*. Proceedings the NARST Annual Conference, Baltimore, MD.
4. Kaya, E., Cetin, P. S., & Geban, O. (2008). *Facilitating conceptual change in gases concepts*. Proceedings of the XIII. International Organization for Science and Technology Education (IOSTE) Symposium, Kusadasi, Turkey.
5. Cetin, P. S., Kaya, E., & Erduran, S. (2009). *Investigating pre-service science teachers' understanding of argument*. Proceedings of the III. International Computer & Instructional Technologies Symposium, Trabzon, Turkey.
6. Kaya, E., Erduran, S., & Cetin, P. S. (2010). *Assessing understanding of argument: Investigating pre-service science teachers' arguments and implications for classroom practice*. Proceedings of the NARST Annual Conference, Philadelphia, PA.
7. Scheid, N. M., Schwartz, R., Kremer, K., Mayer, J., Cetin, P. S., Erduran, S., & Kaya, E. (2010). *NOS between subject-specific and subject-comprehensive science education approaches*. Proceedings of the NARST Annual Conference, Philadelphia, PA.
8. Aydeniz, M., Cetin, P. S., Pabuccu, A., & Kaya, E. (2012). *Exploring the impact of argumentation on college students' conceptual understanding of the properties and behavior of gases*. Proceedings of the NARST Annual Conference, Indianapolis, IN.
9. Kaya, E., Erduran, S., & Cetin, P. S. (2013). *Pre-service science teachers' understanding and evaluation of arguments*. Proceedings of the NARST Annual Conference, Rio Grande, Puerto Rico.

Conference Papers presented in the international conferences and published in the abstract books

1. Cetin, P. S., Kaya, E., & Geban, O. (2007, September). *Promoting conceptual change in chemical equilibrium concepts*. Paper presented at the European Conference on

Educational Research (ECER), Ghent, Belgium.

2. Kaya, E. Erduran, S., & Cetin, P. S. (2010, February). *High school students' perceptions of argumentation*. Proceedings of the II. World Conference on Educational Sciences, Istanbul, Turkey.
3. Kaya, E. & Erduran, S. (2010, June). *The case of concept duality in chemistry and implications for restructuring the chemistry curriculum*. Paper presented at XIV. World Congress of Comparative Education Societies, Istanbul, Turkey.
4. Kaya, E. & Geban, O. (2011, February). *The effect of conceptual change based instruction on students' attitudes toward chemistry*. Proceedings of the III. World Conference on Educational Sciences, Istanbul, Turkey.
5. Kaya, E. & Aydeniz, M. (2011, September). *Variables predicting Turkish high school students' attitudes toward science*. Paper presented at European Conference on Educational Research, Berlin, Germany.
6. Kaya, E., Cetin, P. S., & Yildirim, A. (2011, September). *Transformation of centralized curriculum into classroom practice: An analysis of teachers' experiences*. Paper presented at European Conference on Educational Research, Berlin, Germany.
7. Kaya, E. & Erduran, S. (2011, September). *Integrating epistemological perspectives on chemistry in chemical education*. Paper presented at the European Science Education Research Association (ESERA) Biannual Conference, Lyon, France.
8. Kaya, E. & Cetin, P. S. (2012, April). *Pre-service chemistry teachers' laboratory anxiety levels*. Paper presented at International Conference on New Trends in Education, Antalya, Turkey.
9. Cetin, P. S. & Kaya, E. (2012, April). *Relationship between students' content knowledge and engagement in argumentation: literature review*. Paper presented at International Conference on New Trends in Education, Antalya, Turkey.
10. Kaya, E. & Cetin, P. S. (2012, October). *Pre-service chemistry teachers' perceptions of difficult chemistry topics*. Paper presented at International Journal of Arts and Sciences Conference, Rome, Italy.
11. Cetin, P. S., Kaya, E., & Geban, O. (2013, April). *Perceptions about constructivist science classes: Students, pre-service teachers, and in-service teachers*. Paper presented at International Conference on New Trends in Education, Antalya, Turkey.
12. Erduran, S., Kaya, E., & Cetin, P. S. (2015, January). *Promoting pre-service teachers' learning of argumentation in Rwanda*. Paper presented at Southern African Association for Research in Math, Science, & Technology Education (SAARMSTE) Conference, Maputo, Mozambique.
13. Kaya, E. & Erduran, S. (2015, January). *Pre-service science teachers' visual representations of scientific practices*. Paper presented at Southern African Association for Research in Math, Science, & Technology Education (SAARMSTE) Conference, Maputo, Mozambique.
14. Erduran, S., Kaya, E., Cetin, P. S., O'Grady, A., Leahy, K., Uworwabayeho, A., & Mutarutinya, V. (2015, April). *Enhancing science teachers' learning of argumentation in Rwanda*. Proceedings of the NARST Annual Conference, Chicago, IL.
15. Erduran, S., Saribas, D., Mugaloglu, E. Z. , Kaya, E., Dagher, Z. R., & Ceyhan, G. (2015, April). *Defining and understanding scientific practices in pre-service science teacher education*. Proceedings of the NARST Annual Conference, Chicago, IL.
16. Erduran, S., Dagher, Z. R. , Mugaloglu, E. Z. , Kaya, E., Saribas, D., & Ceyhan, G. (2015, April). *Toward a holistic account of scientific practices in science teacher education*.

Paper presented at American Educational Research Association (AERA) Conference, Chicago, IL.

17. Kaya, E., Saribas, D., & Erduran, S. (2015, April). *Pre-service science teachers' perceptions of scientific practices*. Paper presented at International Organization for Science and Technology Education (IOSTE) Symposium, Istanbul, Turkey.
18. Kaya, E. & Erduran, S. (2015, July). *Missing pieces and holes in the Turkish middle school science curriculum: Towards a reconceptualized holistic account of NOS*. Paper presented at the International History, Philosophy, and Science Teaching (IHPST) Conference, Rio de Janeiro, Brasil.
19. Kaya, E. & Erduran, S. (2015, September). *Integrating epistemological perspectives on chemistry in chemical education*. Paper presented at the European Science Education Research Association (ESERA) Biannual Conference, Helsinki, Finland. (Invited Symposium)
20. Kaya, E., Erduran, S., & Cetin, P. S. (2016, March). *Incorporating a holistic model of nature of science in pre-service science teacher education*. Paper presented at the New Perspectives in Science Education Conference, Florence, Italy.
21. Cetin, P. S. & Kaya, E. (2016, March). *Effectiveness of argument-driven inquiry on pre-service teachers' scientific writing skills*. Paper presented at the New Perspectives in Science Education Conference, Florence, Italy.
22. Dagher, Z., Erduran, S., Kaya, E., BouJaoude, S. (2016, April). *Supporting science teachers' inclusion of scientific practices in Lebanon*. Paper presented at the Annual NARST Conference, Baltimore, MD.
23. Akdemir, Z. G., Babur, N., & Kaya, E. (2016, April). *Reading scientific text for students with learning difficulties (LD)*. Proceedings of the World Conference on Psychology, Counseling and Guidance, İzmir, Turkey.
24. Kaya, E., & Erduran, S. (2016, June). *Nature of science in science education: A curriculum analysis based on the family resemblance approach*. Paper presented at III. International Eurasian Educational Research Congress, Mugla, Turkey.
25. Erduran, S., & Kaya, E., (2016, June). *Argumentation in science education: Contributions from models of deliberative democracy*. Paper presented at III. International Eurasian Educational Research Congress, Mugla, Turkey.
26. Aksoz, B., Kaya, E., Erduran, S., Akgun, S., & Tas, T. (2016, June). *Pre-service science teachers' perceptions of the nature of science: An investigation based on the Family Resemblance Approach*. Paper presented at III. International Eurasian Educational Research Congress, Mugla, Turkey.
27. Kaya, E., & Erduran, S. (2016, August). *Bird's eye view on science: Pre-service science teachers' representations of nature of science*. Paper presented at the International Conference of East-Asian Association for Science Education. Tokyo, Japan.
28. Kaya, E., & Erduran, S. (2016, August). *Nature of science in pre-service teacher education: Learning to teach epistemic practices of chemistry*. Paper presented at the International Conference of East-Asian Association for Science Education. Tokyo, Japan.
29. Erduran, S. & Kaya, E. (2016, August). *Infusing epistemic practices in chemistry curricula: A theoretical framework*. Paper presented at the International Conference of East-Asian Association for Science Education. Tokyo, Japan.
30. Erduran, S. & Kaya, E. (2016, August). *Using political theory to frame argumentation for science education: The case of deliberative democracy*. Paper presented at the International Conference of East-Asian Association for Science Education. Tokyo, Japan.

Conference Papers presented in the national conferences and published in the proceedings

1. Seker, A., Kaya, E., Firat, G. G., & Geban, Ö. (2006). *Atom, molekül, iyon ve madde kavramlarında kavramsal değişim sağlama*. VII. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, Ankara.
2. Cetin, P. S., Kaya, E., & Yildirim, A. (2008). *Kimya öğretmenlerinin program algısı ve öğretimde yaşanan problemler*. VIII. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, Bolu.
3. Kaya, E., Cetin, P. S., & Geban, O. (2008). *Kimya öğretmen adaylarının bazı kimya konuları ile ilgili kavram yanlışları*. VIII. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, Bolu.
4. Kaya, E. (2012). *Argümantasyona dayalı etkinliklerin öğretmen adaylarının kimyasal denge konusunu anlamalarına etkisi*. X. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, Niğde.
5. Akgun, S., Aksoz, B., Kaya, E., Erduran, S., & Tas, T. (2016, September). *Aile benzerliği yaklaşımına dayalı bilimin doğası öğretimi: Öğretmen adaylarının bilimin sosyal ve kurumsal yönlerine ilişkin algıları*. XII. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, Trabzon.
6. Tas, T., Cetin, P. S., Kaya, E., Erduran, S., Akgun, S., & Aksoz, B. (2016, September). *Öğretmen adaylarının bilimin doğasına ilişkin görüşleri: Aile benzerliği yaklaşımına dayalı bir çalışma*. XII. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, Trabzon.

Conference Papers presented in the national conferences and published in the abstract books

1. Kaya, E. & Geban, O. (2008, October). *Lise öğrencilerinin reaksiyon hızı konusundaki kavram yanlışları*. XXII. Ulusal Kimya Kongresi, Magusa, K.K.T.C.
2. Sağlam, G., Cetin, P. S., Kaya, E., & Geban, O. (2008, October). *Öğrencilerin kimya dersinde başarı ve başarısızlık algılarının yükleme teorisi açısından incelenmesi*. XXII. Ulusal Kimya Kongresi, Magusa, K.K.T.C.
3. Kaya, E. & Geban, O. (2010, September). *Reaksiyon hızı konusunda kavramsal değişim sağlama*. IX. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, Izmir.
4. Kaya, E. & Erduran, S. (2015, September). *Parçalardan bütünlere: Bilimin doğasını kimya öğretim programında yeniden nasıl tanımlayabiliriz?* Ulusal Kimya Eğitimi Kongresi, Ayvalık-Balıkesir.

Projects

Researcher in the project entitled “Revisiting Scientific Inquiry in the Classroom: Towards an Interdisciplinary Framework for Science Teaching and Learning”, funded by TUBITAK and European Union Marie Curie Co-Fund Brain Circulation Scheme Fellowship (291762/2236), Project coordinator: Prof. Sibel Erduran (University of Limerick, Ireland)., Other researchers in the project team: Dr. Ebru Mugaloglu, Dr. Deniz Saribas, and Gaye Ceyhan (Bogazici University, Turkey), and Prof. Zoubeida Dagher (University of

July 2013-
July 2015

Delaware, USA).

Researcher in the project entitled “Enhancing Argumentation in Science Education in Rwanda”, funded by NARST (A Worldwide Organization for Improving Science Teaching and Learning Through Research) - LSEP (Linking Science Educators Program), Project coordinator: Prof. Sibel Erduran (University of Limerick, Ireland). Other researchers in the project team: Dr. Keelin Leahy and Dr. Audrey O'Drady (University of Limerick, Ireland), Dr. Pinar Seda Cetin (Abant Izzet Baysal University, Turkey), Dr. Alphonse Uworwabayeho and Dr. Vedaste Mutarutinya (University of Rwanda, Rwanda)

May 2014-
November
2014

Researcher in the project entitled “Infusing Scientific Practices in Science Education in Lebanon”, funded by NARST (A Worldwide Organization for Improving Science Teaching and Learning Through Research) - LSEP (Linking Science Educators Program), Project coordinator: Prof. Zoubeida Dagher (University of Delaware, USA). Other researchers in the project team: Prof. Saouma BouJaoude (American University of Beirut), Prof. Sibel Erduran (University of Limerick, Ireland)

April 2015-
December
2015

Coordinator in the project entitled “Nature of science in science teacher education: A comparative research and development project”, funded by Bogazici University Research Fund Grant Number 10621. Researchers in the project team: Prof. Sibel Erduran (University of Limerick, Ireland), Selin Akgun (Bogazici University), Busra Aksoz (Bogazici University),, Tugce Tas (Bogazici University), Assoc. Prof. Pinar Seda Cetin (Abant Izzet Baysal University, Turkey)

Feb 2016-

Teaching Experience

Instructor in Undergraduate Courses (Bogazici University)

PRED-470 Assessment in Mathematics and Science Education, Fall	2014
PRED-471 Teaching Science II, Fall	2014
PRED-462 Applied Research in Mathematics and Science Education, Spring	2015
PRED-474 Practice Teaching in Science, Spring	2015
PRED-476 Seminar on Practice Teaching in Science, Spring	2015
PRED-460 Research Methods in Mathematics and Science Education, Summer	2015
PRED-460 Research Methods in Mathematics and Science Education, Fall	2015
PRED-470 Assessment in Mathematics and Science Education, Fall	2015
PRED-474 Practice Teaching in Science, Spring	2016
PRED-476 Seminar on Practice Teaching in Science, Spring	2016
PRED-431 Nature of Science for Science Teachers, Spring	2016
PRED-539 Graduate Seminar, Spring	2016

Editor

Journals

Fen Bilimleri Öğretimi Dergisi (as the editor in the field of Chemistry Education) 2013-2015

Reviewer

Journals or Books

Educational Research and Review 2011-
Eurasian Journal of Physics and Chemistry Education 2012-2014
International Journal of Science Education 2013-
Science & Education 2013-
Eurasia Journal of Mathematics, Science, and Technology Education 2014-
Kırşehir Eğitim Fakültesi Dergisi 2015-

Seminars and Workshops Delivered

1. Science Education and Research Association Summer School funded by TUBITAK: Recent Approaches in Science Education and Statistical Applications, Canakkale, Turkey, June 23-29. 2013
2. Workshop on Argumentation in Science Teaching and Learning funded by NARST-LSEP (Linking Science Educators Program), University of Rwanda, Kigali, Rwanda, June 16-18. 2014
3. Seminar entitled "From Pieces to Wholes: Reconceptualizing the Nature of Scientific Practices and Implications for Teachers' Professional Development", Bogazici University, Istanbul, Turkey, June 24. 2014
4. Seminar entitled "Scientific Practices: What Are They and How Can They Be Promoted in School Science?", Bogazici University, Istanbul, Turkey, December 22. 2014
5. Workshop entitled "The Application of Scientific Practices in Science Education", Bogazici University, Istanbul, Turkey, December 22. 2014
6. Seminar entitled "Reconceptualizing the Nature of Scientific Practices and Implications for Teachers' Professional Development", Bogazici University, Istanbul, Turkey, February 20. 2015
7. Workshop entitled "The Application of Scientific Practices in Science Education", Gaziosmanpasa University, Tokat, Turkey, May 14. 2015

8. Seminar entitled with “From scientific inquiry to scientific practices: Redefining teaching and learning of science”, American University of Beirut, Beirut, Lebanon, October 29. 2015
9. Workshop entitled “Scientific Practices: Implications for the Science Classroom”, American University of Beirut, Beirut, Lebanon, October 30-31. 2015
10. Workshop entitled “Toulmin Argumentation Model”, Karşıyaka Öğretmenevi, Izmir, Turkey, November 9-10. 2015
11. Workshop entitled “How Can We Teach Nature of Science through a Holistic Approach?”, Bartın University, Bartın, Turkey, May 5. 2016

Plenary Speaker

1. *From Theory to Practice: Reconceptualized Family Resemblance Approach to Nature of Science in Science Teacher Education*, Limerick Symposium on Nature of Science in Science Education: Recent Debates and Future Directions, University of Limerick, Limerick, Ireland, October 26-28. 2016

Invited Speaker

1. *Pre-Service Science Teachers’ Understanding and Evaluation of Arguments*, University of Rwanda, Kigali, Rwanda, June 18. 2014
2. *Bilimin Doğası'na İlişkin Yeni Bir Bakış Açısı: Bilimsel Pratikler ve Öğretmen Eğitimi*, Hacettepe University, Ankara, Turkey, September 20. 2014
3. *Bilimin Doğası'na İlişkin Yeni Bir Bakış Açısı*, Gaziosmanpaşa University, Tokat, Turkey, May 14. 2015

Memberships in Scientific Associations

1. Science Education and Research Association (Fen Eğitimi ve Araştırmaları Derneği)
2. European Science Education Research Association (ESERA)
3. NARST: A Worldwide Organization for Improving Science Teaching and Learning Through Research
4. International History, Philosophy, and Science Teaching (IHPST)

Awards

1. Middle East Technical University Incentive Award for Scientific Publication 2009
2. TÜBİTAK (The Scientific and Technological Research Council of Turkey) Incentive Award for Scientific Publication 2012
3. Middle East Technical University Incentive Award for Scientific Publication 2013
4. TÜBİTAK Incentive Award for Scientific Publication 2013
5. TÜBİTAK Incentive Award for Scientific Publication 2014
6. Science Academy Young Scientists Program Award 2015
7. Bogazici University Special Award 2015
8. Bogazici University Academic Incentive Award 2015

Scholarships

International Scholarships

1. NARST International Committee Conference Scholarship 2006
2. NARST International Committee Conference Scholarship 2010
3. ESERA Biannual Conference Scholarship 2011
4. NARST LSEP (Linking Science Educators Program) Project in Rwanda 2014
5. NARST LSEP (Linking Science Educators Program) Project in Lebanon 2015
6. ESERA Biannual Conference Scholarship 2015
7. IHPST Conference Scholarship 2015

National Scholarships

1. OYP (Program of Training Academicians) Conference Scholarship 2005
2. TÜBİTAK Ph.D. Scholarship (5 years) 2005
3. TÜBİTAK Conference Scholarship 2006
4. TÜBİTAK Conference Scholarship 2007
5. OYP Conference Scholarship 2008
6. OYP Conference Scholarship 2008
7. OYP, Ph.D. Research Scholarship in United Kingdom (1 year) 2009
8. TÜBİTAK, Ph.D. Research Scholarship in United Kingdom (3 months) 2009
9. OYP Conference Scholarship 2010
10. OYP Conference Scholarship 2010
11. Selcuk University, Conference Scholarship 2012
12. Selcuk University, Conference Scholarship 2013
13. Bogazici University, Conference Scholarship 2015

14. Bogazici University, Conference Scholarship	2015
15. Bogazici University, Conference Scholarship	2015
16. TÜBİTAK Conference Scholarship	2015
17. Bogazici University, Conference Scholarship	2016
18. Bogazici University, Conference Scholarship	2016
19. Bogazici University, Conference Scholarship	2016

Seminars and Workshops Attended

1. 1 st Turkish Doctoral Symposium in Science Education, Ahi Evran University, Kirsehir, Turkey, August 29-30.	2009
2. 8 th Research Methods Seminar/ Academic Writing Seminar by Dr. Metin Kozak, Concorde De Luxe Resort, Antalya, Turkey, January 27-31.	2010
3. Foundations in Teaching in Higher Education Seminars by Dr. Virginia Lee. Middle East Technical University, Ankara, Turkey, October 05-11.	2010
4. Workshop on Cooperation of Theory and Practice in Education, Selcuk University, Konya, Turkey, November 25.	2011
5. Science Education and Research Association Workshops-II: LISREL and NVivo, Nigde University, Nigde, Turkey, June 26.	2012
6. Seminar on Socio-Scientific Issues, Prof. Dana Zeidler, Dr. Ahmet Kilinc, Dr. Ozgul Yilmaz-Tuzun, Learning and Student Development (LSD) Office Middle East Technical University, Ankara, Turkey, August 1.	2012
7. Seminar on Students' Engagement in Epistemic Practices in the Science Classroom: Producing Expressed Models by Prof. Maria Pilar Jimenez-Alexiandre, Bogazici University, Istanbul, Turkey, August 26.	2013
8. Seminar on From Dogma to Reason: Research and Development on Argumentation in Science Education by Prof. Sibel Erduran, Bogazici University, Istanbul, Turkey, November, 22.	2014
9. TÜBİTAK Seminar on Project Proposal Writing, Ankara, Turkey, March 26.	2014

Seminars Organized

1. Seminar on Untangling and Assessing Design Reasoning in Engineering by Prof. Senay Purzer from Purdue University, USA. Bogazici University, Istanbul, Turkey, June 16.	2015
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Board and Committee Memberships in National and International Associations and Actions

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| 1. | Project Reviewer, METU College Science Festival | 2005 |
| 2. | Administrative Board Member, Science Education and Research Association | 2012-2014 |
| 3. | Regulatory Board Member, Science Education and Research Association – Seminar on Nature of Science and its Teaching, Selcuk University, Konya, Turkey. | 2013 |
| 4. | Regulatory Board Member and Scientific Board Member, Science Education and Research Association Summer School funded by TUBITAK: Recent Approaches in Science Education and Statistical Applications, Canakkale, Turkey. | 2013 |
| 5. | Committee Member, NARST Outstanding Paper Award (OPA) Committee | 2013-2015 |
| 6. | Regulatory Board Member, Science Education and Research Association Workshops III: Developments in Curriculum of Science Education, Marmara University, Istanbul, Turkey. | 2013 |
| 7. | Scientific Board Member, National Chemical Education Congress, Balikesir University, Ayvalik-Balikesir, Turkey. | 2015 |
| 8. | Proposal Reviewer, 25 th National Educational Sciences Congress, Antalya, Turkey. | 2016 |

Board and Committee Memberships in Bogazici University

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| 1. | Board Member (Associate Professors Representative), Faculty Board, Faculty of Education, Bogazici University, Turkey | 2015- |
| 2. | Committee Member, Award Committee, Faculty of Education, Bogaziçi University, Turkey | 2015- |
| 3. | Committee Member, Accreditation and Evaluation Committee, Faculty of Education, Bogazici University, Turkey | 2015- |
| 4. | Board Member, Research Politics Advisory Board, Bogaziçi University, Turkey | 2016- |
| 5. | Committee Member, Human Research Evaluation Board Sub-Committee, Bogazici University, Turkey | 2016- |

Others

Title	Explanation
Experience in Computer Programs	Microsoft Office Programs ITEMAN SPSS (PASW) LISREL
NLP (Neuro Linguistic Programming) Certificate	Middle East Technical University, Continuing Education Center (2005)