

Elif Ozulku

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Education

- 2019 Ph.D., Florida State University, Tallahassee, Florida. Major: Educational Policy & Evaluation.
Supervisor: Dr. Courtney Preston.
Elif Oz. (2019). *Measuring mathematics and science teacher effectiveness using advanced course-taking in high school*. Unpublished doctoral dissertation, Florida State University, Tallahassee, FL.
- 2013 M.S., Bogazici University, Istanbul, Turkey. Major: Secondary School Science and Mathematics Education.
Supervisor: Dr. Fatih Caglayan Mercan.
Elif Ozulku. (2013). *Exploring the enactment of the 2007 secondary school physics curriculum at an Anatolian high school in Istanbul*. Unpublished master's thesis, Bogazici University, Istanbul, Turkey.
- 2010 B.S., Bogazici University, Istanbul, Turkey. Major: Teaching Physics.

Certificates & Training

- 2019 Measurement and Statistics, Educational Psychology & Learning Systems, Florida State University.
- 2018 Advanced PIE Teaching Training Recognition, Program for Instructional Excellence, Florida State University.
- 2016 Program Evaluation, Educational Leadership and Policy Studies, Florida State University.

Fellowships & Honors

- Herbert J. Reese Endowed Graduate Fellow, 2016-2018
- Fulbright Scholar, 2013-2018

Professional Appointments & Research Experience

- 2025-Present **Research Scientist**, University of Notre Dame Center for STEM Education
Concurrent role: **Managing Editor**, Journal of Research in Science Teaching (2025-Present)
- 2022-2024 Independent **Educational Researcher**
- 2023-2024 **Research Associate**, *Learning through collaborative design-Professional development*, Florida State University School of Teacher Education
- 2022-2024 **Research Associate**, *The interplay between high-leverage practices and task design in high school biology classrooms*, University of Notre Dame Center for STEM Education
- 2020-2022 **Postdoctoral Research Associate**, *Investigating the effects of longitudinal professional development on STEM teaching*, University of Notre Dame Center for STEM Education
- 2017-2019 **Research Assistant**, *Investigating the Characteristics of Programs that Produce Persistent STEM Teachers with High Quality Instruction*, Florida State University Educational Leadership and Policy Studies Department
- 2014-2017 **Research Assistant**, *Teacher preparation program characteristics and its relation to student achievement and teacher retention*, Florida State University Educational Leadership and Policy Studies Department.
- 2012-2012 **Research Assistant**, *Integration of inquiry-based learning technologies to teaching process*, Bogazici University Faculty of Education.
- 2011-2012 **Research Assistant**, *Perceptions of secondary school physics, chemistry, and biology teachers on the new science curricula*, Bogazici University Faculty of Education.

Publications

- Southerland, S. A., Enderle, P., Schellinger, J., Granger, E., Morandi, S., Rogers, W., Bevis, T., Kaya, R. A., Akcil-Okan, O., **Ozulku, E.**, Coker, R. (2026) Catalyzing Change: Examining the Impact of Biology Teacher Collaborative Curriculum Redesign on Teacher Practice and Student Learning [Manuscript under review]. Anne's College, Florida State University.
- Kloser, M. J., **Ozulku, E.**, Malkani, A., Bullinger, S., Ostdiek, L., Wagner, C., & Pynes, D. (2026). Teacher value-added, task quality, and effective science teaching: The interplay between teacher value-added and high-leverage practices in high school biology classrooms [Manuscript in preparation]. Center for STEM Education, University of Notre Dame.
- Ozulku, E.**, Kloser, M. J., McConnell J., & Stephenson, G. (2026). *Envisioning the Future: Middle School Students' Perceptions of and Motivations for STEM Careers*. [Manuscript in preparation]. Center for STEM Education, University of Notre Dame.
- Ozulku, E.**, & Kloser, M. J. (2024). Middle school students' motivational dispositions and attitudes toward STEM careers. *International Journal of Science Education*. <https://doi.org/10.1080/09500693.2023.2234778>

Oz, E. (2021). Comparability of teachers' educational background items in TIMSS: A case from Turkey. *Large Scale Assessments in Education*, 9(1), 1-18. <https://doi.org/10.1186/s40536-021-00097-2>

Tekkumru-Kisa, M., Preston, C., Kisa, Z., **Oz, E.**, & Morgan, J. (2021). Instructional quality in science in the era of ambitious reforms. *Journal of Research in Science Teaching*, 58(2), 170-194. <https://doi.org/10.1002/tea.21651>

Peer-Reviewed Conference Presentations

Ozulku, E. & Atabas, S. (2026, April 20). Identifying High-Quality Teachers and Their Job Satisfaction in TALIS 2018. Roundtable presentation at the meeting of National Association for Research in Science Teaching (NARST), Seattle, WA.

Morandi, S. & **Ozulku, E.** (2024, March 18). *Catalyzing change: A comparative study of science teacher professional development models and influence on instruction*. Paper presented at the meeting of National Association for Research in Science Teaching (NARST), Denver, CO.

Enderle, P. J., Kaya, R. A., Boyd, N., Morandi, S., **Ozulku, E.**, Rhemer, D., Akcil-Okan, O., & Southerland, S. (2024, March 18). Connections between instructional vision and rigor related to teachers' support of students' productive science talk. Paper presented at the meeting of National Association for Research in Science Teaching (NARST), Denver, CO.

Ozulku, E. (2023). Following different paths toward becoming a science teacher: Differences in preparedness, professional aspirations, and instructional practices. Paper accepted for the meeting of European Science Education Research Association (ESERA), Cappadocia, Turkey.

Ozulku, E. & Atabas S. (2023). *Identifying high-quality teachers and their job satisfaction in TALIS 2018*. Paper accepted for the meeting of European Association for Research on Learning and Instruction (EARLI), Thessaloniki, Greece.

Ozulku, E., Kloser, M. J., Malkani, A., Bullinger, S., Ostdiek, L., & Wagner, C. (2023). *Qualitative cases of science teaching practice: Comparing instruction based on value-added ratings*. Paper presented at the meeting of National Association for Research in Science Teaching (NARST), Chicago, IL.

Ozulku, E., Kloser, M. J., Malkani, A., Bullinger, S., Ostdiek, L., & Wagner, C. (2023). *Science teacher instructional quality in launching and implementing science tasks in the classroom and their value-added*. Paper presented at the meeting of American Educational Research Association, Chicago, IL.

Oz, E., Kloser, M. J., McConnell J., & Stephenson, G. (2022). *Envisioning the future: Middle school students' perceptions of and motivations for STEM careers*. Paper presented at the virtual meeting of American Educational Research Association, San Diego, CA.

Oz, E., & Kloser, M. J. (2021). *Motivational factors mediating toward STEM careers amongst a national sample of middle school students*. Paper presented at the virtual meeting of National Association for Research in Science Teaching.

Oz, E., & Kloser, M. J. (2021). *Middle school students' motivational dispositions and STEM career attitudes*. Paper presented at the virtual meeting of American Educational Research Association.

Oz, E. (2021). *Teacher characteristics and students' high school course-taking in mathematics and science*. Paper presented at the virtual meeting of Association for Education Finance and Policy.

Oz, E. (2019). *Measuring Mathematics and Science Teacher Effectiveness Using Rigorous Course-taking in High School*. Paper presented at the meeting of Association for Education Finance and Policy, Kansas City, MO.

Tekkumru-Kisa, M., Preston, C., Kisa, Z., **Oz, E.**, Morgan, J. (2019). *Measuring Instructional Quality in Science in the NGSS Era*. Paper presented at the meeting of American Educational Research Association, Toronto, Canada.

Tekkumru-Kisa, M., Preston, C., Kisa, Z., **Oz, E.**, Morgan, J. (2019). *Instructional Quality in Science Classrooms in the NGSS Era*. Paper presented at the meeting of National Association for Research in Science Teaching, Baltimore, MD.

Oz, E. (2017). *The Importance of Context and Translation in Conducting Research by Using Large-Scale International Datasets: A TIMSS Case*. Paper presented at the meeting of Comparative and International Education Society.

Preston, C., & **Ozulku, E.***. (2016). *School Climate and Beginning Teacher Retention*. Paper presented at the meeting of American Educational Research Association, Washington, DC.

Oz, E., & Preston, C. (2016). *Middle School Science Teacher Preparation and Student Achievement in Science in Turkey*. Paper presented at the meeting of Association for Education Finance and Policy, Denver, CO.

Ozulku, E. & Adadan, E. (2012). *Undergraduate Students' Perceptions of the Introductory Physics Laboratories*. Poster presented at the meeting of World Conference on Physics Education, Istanbul, Turkey.

Other Conference Presentations

Oz, E., Oswald, C., Preston, C., Tekkumru-Kisa, M. & Morgan, J. (2019). *Novice Noyce Teachers' Instructional Quality and Retention*. Poster presentation at the meeting of SE Regional Robert Noyce Connections.

Oz, E., Morgan, J., Preston, C., Tekkumru-Kisa, M., & Southerland, S. (2018). *Investigating Relationships Between STEM Teacher Preparation, Instructional Quality, and Teacher Persistence*. Poster presentation at the meeting of SE Regional Robert Noyce Connections.

Teaching Experience

Course Instructor, Florida State University, Tallahassee, FL

EDF 6486 Applied Research Methods in Ed. Leadership and Policy, Summer 2022
 EDF 6486 Applied Research Methods in Ed. Leadership and Policy, Summer 2021
 EDF 5641 Introduction to Policy Studies in Education, Summer 2020

Teaching Assistant, Florida State University, Tallahassee, FL

EDA 5231 Applications of Policy for School Leaders, Summer 2019
 EDF 5414 Introduction to Large Datasets, Fall 2018
 EDF 5641 Policy Studies in Education, Summer 2017
 EDA 5423 Data Driven School Improvement, Fall 2016 & Spring 2017

Guest Lecturer

EDF 6666 Teacher Policy and Reform, Fall 2019
 SCED 579 Graduate Seminar in Science and Mathematics Education, Spring 2017
 EDF 5414 Introduction to Large Datasets, Fall 2016
 EDF 1005 Introduction to Education, Fall 2015
 SCED 579 Graduate Seminar in Science and Mathematics Education, Spring 2013

Science Teacher (Grades 1-8), Bilfen Schools, Istanbul 2012-2013

Student Assistant, Boğaziçi University, Istanbul

PHYS 202 Laboratory Applications in Introduction to Modern Physics, Summer 2011
 PHYS 201 Laboratory Applications in Electrodynamics, Fall 2010 & Spring 2011
 PHYS 102 Laboratory Applications in Thermodynamics, Spring 2010 & Summer 2010
 PHYS 101 Laboratory Applications in Mechanics, Fall 2009 & Spring 2010
 SCED 441 Teaching Methods in Physics, Fall 2009 & Spring 2010

Conference Workshops

Tan, E., Vedder-Wiess, D., Kloser, M., **Ozulk, E.**, Alcasid, G.A., Tekkumru-Kisa, M., Park, W. (2026, April 19). *Behind the editor's desk: Learning to publish and review for Journal of Research in Science Teaching (JRST)* [Conference workshop]. National Association for Research in Science Teaching (NARST), Seattle, WA.

Professional Service

Peer Reviewer, International Journal of Science and Mathematics Education (current)
 Peer Reviewer, Teaching and Teacher Education, (current)
 Peer Reviewer, Educational Evaluation and Policy Analysis, (current)
 Peer Reviewer, NARST Conference, 2022-2024
 Peer Reviewer, EARLI Conference, 2023
 Peer Reviewer, AERA Conference, 2021-2022
 Peer Reviewer, Journal of Theoretical Educational Science, 2021
 Peer Reviewer, Journal of Language and Education, 2021
 President, FSU Turkish Student Association, 2015-2017
 Vice President, FSU Turkish Student Association, 2014-2015
 Vice President, Transcultural Research and Education Consortium, 2016-2017
 Graduate Student Ambassador, Education Policy & Evaluation Program, 2016-2017

Professional Memberships

2020-present National Association for Research in Science Teaching
 2022-2023 European Association for Research in Learning and Instruction
 2014-2023 American Educational Research Association
 2016-2021 Association for Education Finance and Policy