Curriculum Vitae

Ezgi Yesilyurt, Ph.D.
Weber State University

<u>**Office**</u>
Weber State University
College of Science
Department of Zoology
Weber State University
3848 Harrison Blvd.
Ogden, Utah 84408

E-mail: ezgiyesilyurt1986@gmail.com
Google Scholar: https://scholar.google.com/citations?user=2VJy-B8AAAAJ&hl=en
ResearchGate: https://www.researchgate.net/profile/Ezgi_Yesilyurt2

<u>**Education**</u>

Ph.D. in Science Education (2020)
University of Nevada, Las Vegas
Las Vegas, NV
Major: Science Education
Concentration: STEM Education
Dissertation Title: Epistemic Aspects of Engineering for K-12 Education

Master of Science in Elementary Science and Mathematics Education (2014)
Middle East Technical University
Ankara, Turkey
Major: Science Education
Concentration: Evolution Education, Argumentation
Dissertation Title: Conceptual, Structural, and Epistemic Aspects of Science Teachers'
Argumentation Practices in the Context of Evolutionary Theory

Bachelor of Science in Elementary Science Education (2010)
Middle East Technical University
Ankara, Turkey
Major: Science Education

Certification
K-8- General Teaching Certificate Science Endorsements

Scholarship & Awards

Nevada Women in STEM- Senator Jacky Rosen highlights female role-models can help combat negative stereotypes that hold women back from pursuing careers in STEM.

Graduate College Medallion Recipient (2020)-Awarded by UNLV Graduate College that honors exceptionally involved and high-achieving students.

Sandra K. Abell Scholar (2019) - Awarded by the National Association of Research in Science Teaching (NARST) towards mentoring and supporting young scholars in developing their research agenda

Summer Doctoral Research Fellowship (2018-2019-2020) – Awarded by the UNLV Graduate College to support research activities during the summer term, $7000/yr., total $21,000

Jumki Basu Scholar Award (2019) – Awarded by the NARST Equity and Ethics (E&E) Committee to support graduate students' participation in the NARST conference

UNLV Graduate & Professional Student Association Conference Travel Grant (2016-2019), Awarded to support graduate students' participation in professional conferences, University of Nevada, Las Vegas (2016-2019) $350/yr., total $1,400

Dr. Bea Babbitt Scholarship (2019) - Awarded for a record of accomplishment in science education, $1000

Graduate and Professional Student Association Merit Award (2019) – Awarded for "outstanding contributions towards the development and continuing growth of the GPSA at the University of Nevada, Las Vegas"

IMPACT Award for Community Engagement (2019)- Awarded for outstanding commitment to advancing learning and social change through organizing and providing Saturday STEM School workshops for elementary students

Edward Pierson Scholarship (2017-2018), Awarded for a record of accomplishment in science education, $1000/yr, total $3000

Professional Work Experience

Assistant Professor in Life Science Education, Weber State University (2020-present)
Ogden, Utah
    Responsibilities include teaching life science courses to pre-service elementary science teachers and undergraduate non-biology majors.

    Co-researcher/Program evaluator, 2020-present
    Weber State University, Center for Science and Mathematics Education ASTEP (Aligning the Science Teacher Education Pathway) Project

Graduate Assistant, **University of Nevada, Las Vegas (2015-2020)**
Las Vegas, NV
    Research Assistant (2015-2020)
    Responsibilities include data collection and analysis of both qualitative and quantitative data and writing for publications
    Research Project (2015-2020)

NSF-funded Project - Developing Integrated Elementary Science, Engineering, and Language Arts Curricula Aligned with Next Generation Science Standards Principal Investigator and Instructor of record Dr. Hasan Deniz
-- Responsibilities include assisting in STEM workshops for elementary students in grades K 3-5, and science and engineering professional development programs for science teachers, and dissemination of results

- Research Project (2018-2019)
NSF-funded Project-Collaborative Research: Teachers Engineering Project-based STEM Environments to Impact Diverse Learning Groups: Spanning Astronomical and Mathematical Spaces (Project SAMS) Principal Investigator Dr. Jennifer Wilhelm and Co- Principal Investigator Dr. Merryn Cole
--Responsibilities include assisting in the preparation of materials and documents for the professional development program.

Teaching Assistant (2015-2020)
- **Instructor of EDEL 443/CIE 543 Elementary Science Methods (2016-2020)**

--Responsibilities include designing the course syllabus and teaching the course through inquiry with a special emphasis on the integration of science, mathematics, technology and engineering and literacy, and pedagogical content knowledge (PCK).

- **Assisted in the instruction of CIS 563-Teaching Secondary Science (2018-2020)**

Instructor of record Dr. Merryn Cole

- **Assisted in the instruction of EDU 202- introduction to Secondary Education (2017)**

Instructor of record Dr. Chia-Liang Dai

- **Assisted in the instruction of CIS 639 - Curriculum Development Secondary Science Education (2015)**

Instructor of record Dr. Hasan Deniz
--Responsibilities included co-instructing the course and working with secondary science teachers in a science teaching course.

Researcher at the Center for Mathematics, Science and Engineering Education (2019-2020)
Las Vegas, NV
Responsibilities included working on grant projects and developing workshops in collaboration between Colleges of Sciences, Education, and Engineering to enhance STEM education
https://www.unlv.edu/cmsee/staff

Instructor of STEM Saturday Program (2016-2020)
Las Vegas, NV
Saturday STEM program is designed to provide STEM education for the elementary and middle school students in Las Vegas. This program provides

grades 1-8 students an opportunity to experience a major STEM topic through a 5-week course in both fall and spring semesters
--Responsibilities included developing and providing STEM workshops.

Discourse Couching (2018-2019)
Las Vegas, NV
Project-funded by NV Great Teaching and Leading Fund: Argumentation and Learning in Secondary Science (Project ALSS) Principal Investigator Dr. Michael Nussbaum and Co-Investigator Dr. LeAnn Putney
--Responsibilities include supporting individual teachers (and teams) engaging more productive classroom discourse through teacher and student talk moves, lesson design, and lesson implementation, observing individual teachers during the year, providing feedbacks, attending institute and group professional development sessions in which observing and leading small group discussions, and helping with lesson planning and critiquing.

Workshop Instructor of Robotics Academy of Nevada (RAN) (2019-2020)
Las Vegas, NV
The Desert Research Institute (DRI), UNLV, and the University of Nevada, Reno (UNR) are partnering with Tesla to help Nevada's teachers go from curious to confident in coaching robotics programs.
--Responsibilities include developing and providing STEM education-related workshops for K-12 teachers

Population Education Trainer (2019-continue)
Population Education is a national program with a strong emphasis on curriculum resources and professional development for K-12 educators that focuses on human population issues

-- Responsibilities include providing workshops annually for teachers and non-formal educators at conferences and in-service programs, as well as for future teachers in their education methods classes at campuses

Education Specialist in EPODIM (Educational and Professional Development through Innovative Methods) (2014-2015)
Ankara, Turkey
--Responsibilities included structuring and providing professional development programs funded by Amgen Teach European Program and Chain Reaction FP7 (European Union's Seventh Framework Program). The program also involved on-site support for science teachers to implement inquiry and argumentation-based science teaching in their schools, analyzing survey and interview data, writing scientific reports.

Science Center Educator in the Children's Museum and Science Center (2013-2014)
Ankara, Turkey

--Responsibilities included designing and organizing science and engineering workshops for students (Grades 1-12).

Science Teacher in Private Cakil Tasim Education Center (2011-2013)
Ankara, Turkey
    --Responsibilities included teaching science and mentoring elementary students (Grades 3-8)

English Assistant in Liceo Scientifico E. Majorana (2010-2011)
Rome, Italy
    Comenius project, part of the European Union Lifelong Learning Program
    --Responsibilities included co-teaching English to high school students

Mentorship Experience

Mentee	Mentor Responsibilities	Dates
Mina Raeisi Undergraduate Student College of Education	Responsibilities include supporting and contributing to the professional development of the undergraduate mentee and leading the research projects, writing, and submission of the conference proposal to national conferences	2018-2019--The Graduate College Rebel Research and Mentorship Program (RAMP)
Nicole Thomas Master's Student College of Education	Responsibilities include supporting and contributing to the professional development of the master's student through insights regarding science education discipline and guiding the student creation of an academic paper	2020
Erick Hansen Undergraduate Student College of Education	Responsibilities include supporting and contributing to the professional development of the undergraduate mentee and leading the research projects, writing, and submission of the conference proposal to national conferences	2021-Continue

Book Chapters

Deniz, H., **Yesilyurt, E.,** Newman, S. J., & Kaya, E. (2020). Toward Defining Nature of
      Engineering in the Next Generation Science Standards Era. In *Critical Questions in*
      STEM Education (pp. 33-44). Springer, Cham.
      https://www.springer.com/gp/book/9783030576455

Peer-Reviewed Journal Articles

E: Empirical; P: Practitioner

Kaya, E., Deniz, H., **Yesilyurt, E.** (2022). Engineers Solve Big Trash Problem; Can't Pick It
      Up? 3D Print and Assemble a Grabber to Aid Litter Collection Services. *Science &*
      Children. **(P)**

Yesilyurt, E., Deniz, H. & Kaya, E. Exploring sources of engineering teaching self-efficacy for
      pre-service elementary teachers. *IJ STEM Ed* 8, 42 (2021).
      https://doi.org/10.1186/s40594-021-00299-8 (**E**)

Yesilyurt, E. (2022). Investigating elementary preservice teachers' beliefs about teaching and
      learning science. *Journal of College Science Teaching*, *51*(5). (**E**)

Deniz, H., **Yesilyurt, E,** & Kaya, E. (2021). Teaching nature of engineering with picture books.
      Science & Children. **(P)**

Deniz, H., Kaya, E., **Yesilyurt, E.,** Newley, A., & Lin, E. (2021). Integrating Engineering,
      Science, Reading, and Robotics across Grades 3-8 in a STEM Education Era. *Journal of*
      Learning and Teaching in Digital Age, 6(1), 40-45.

Yesilyurt, E., Oztekin, C., Cakiroglu, J., & Deniz, H. (2019). Novice and experienced science
      teachers' conceptual knowledge of evolutionary theory within the context of micro-and
      macroevolution. *Journal of Biological Education*, 1-19. (**E**)

Deniz, H., **Yesilyurt, E**, & Kaya, E. (in press). Beyond engineering design: Teaching of the
      nature of engineering at the elementary level. *Science & Children. (***P)**

Kaya, E., Deniz, H., & **Yesilyurt, E.** (in press). Teaching engineering with mechanical
      engineering design challenge. *Science Scope. (***P)**

Deniz, H., Kaya, E., **Yesilyurt, E.,** & Trabia, M. (2020). The influence of an authentic
      engineering design experience on elementary teachers' nature of engineering views.
      International Journal of Technology and Design Education, 30, 635-656. (**E**)
      https://doi.org/10.1007/s10798-019-09518-4

Kaya, E., Newley, A., **Yesilyurt, E.,** & Deniz, H. (2020). Measuring computational thinking
      teaching efficacy beliefs of preservice elementary teachers. *Journal of College of Science*
      Teaching, 49(6), 55-64. (**E**)

Kaya, E., Newley, A., Deniz, H., **Yesilyurt, E**., & Newley, P. (in press). Improving views of the
      nature of engineering through LEGO Mindstorms EV3 Educational Robotics. *Journal of*
      College Science Teaching. (**E**)

Kaya, E., **Yesilyurt, E.,** Newley, A., & Deniz, H. (2019). Examining the impact of a
      computational thinking intervention on pre-service elementary science teachers'
      computational thinking teaching efficacy beliefs, interest and confidence. *Journal of*
      Computers in Mathematics and Science Teaching, *38*(4), 385-392. (**E**)

Deniz, H., Kaya, E., & **Yesilyurt, E**. (2018). Exposing elementary students to engineering design
      process through soda can crusher design challenge. Science & Children. (**P**)

Newley, A., Kaya, E., Deniz, H., & **Yesilyurt, E. (**2018). Celebrity statues: Learning computational thinking by designing biomimetic robots. *Science Scope*, *42*(1), 74. **(P)**

Deniz, H., Kaya, E., & **Yesilyurt, E**. (2018). Engineering Encounters. *Science and Children*, *56*(2), 74-78. **(P)**

Kaya, E., Newley, A., Deniz, H., **Yesilyurt, E.,** & Newley, P. (2017). Introducing engineering design to a science teaching methods course through educational robotics and exploring changes in views of preservice elementary teachers. *Journal of College Science Teaching*, *47*(2). **(E)**

Newley, A., Deniz, H., Kaya, E., & **Yesilyurt, E.** (2016). Engaging elementary and middle school students in robotics through hummingbird kit with snap! visual programming language. *Journal of Learning and Teaching in Digital Age*, 1(2), 20-26. **(E)**

Kaya, E., Deniz, H., Newley, A., **Yesilyurt, E.,** & Khalilov, F. (2016). Preparing Ugandan secondary teachers for robotics and technology competitions. *Journal of Learning and Teaching in Digital Age*, 1(1), 12-17. **(E)**

Sen, M. & **Yesilyurt, E.** (2014). The development of the Paranormal Belief Scale (PBS) for science education in the context of Turkey. *International Journal of Education in Mathematics, Science and Technology*, *2*(2), 107-115. **(E)**

Manuscripts Under Review

Yesilyurt, E., Deniz, H. & Kaya, E. Epistemic Aspects of Engineering for K-12 Education. Journal of Research in Science Teaching (JRST) (Revision)

Yesilyurt, E., Deniz, H., & Kaya, E. Development and validation of an engineering teaching efficacy beliefs instrument. Journal of Engineering Education.

Marti, E., Kaya, E., **Yesilyurt, E** & Deniz, H. (under review). High school science teachers' views of nature of engineering through sustainable engineering design. Journal of Science Education and Technology.

Developing Manuscripts to be Submitted to Refereed Journals

Yesilyurt, E. & Turgut, R. (in preparation) General education pre-service teachers' attitudes, and beliefs/knowledge regarding second language acquisition and English language learners.

Yesilyurt, E.& Raeisi, M. & Deniz, H. (in preparation). Development and validation of pre-service teachers' approaches to teaching evolutionary theory scale.

Yesilyurt, E, & Deniz, H. (in preparation). Epistemic aspects of Engineering for K-12 Education.

Conference Presentations

Yesilyurt, E., Deniz, H., & Kaya, E. (April, 2022). Philosophy of Engineering for K-12 Engineering Education. The paper is accepted to present at AERA Annual Meeting, San Diego, CA.

Kaya, E., **Yesilyurt, E.,** & Deniz, H. (April, 2022). Assessing Learners' Nature Of Engineering Views. The paper is accepted to present at AERA Annual Meeting, San Diego, CA.

Yesilyurt, E., Trugut, R., Kaya, E. Adibelli-Sahin, E., Sahin, B., & Deniz, H. (April, 2022). Teaching elementary computer science with physical computing for linguistically diverse

classrooms. The paper presented at the annual meeting of the Society for Information Technology & Teacher Education International Conference (Virtual).

Kaya, E., **Yesilyurt, E.,** & Deniz, H. (March, 2022). Meaningful Assessment of Engineering Experts' and Teachers' Conceptions of Nature of Engineering. The poster is accepted to present at the annual meeting of the National Association for Research in Science Teaching (NARST), Vancouver, British Columbia.

Yesilyurt, E., Deniz, H., & Kaya, E. (December, 2021). Features of Engineering for K–12 Education (NARST-Sponsored Session). The paper was presented at the meeting of National Science Teacher Association, Los Angles, CA.

Deniz, H., Kaya, E. & **Yesilyurt, E.** (March, 2022). Searching for Nature of Engineering in the Framework for K-12 Science Education. The paper is accepted to present at the annual meeting of the National Association for Research in Science Teaching (NARST), Vancouver, British Columbia.

Kaya, E., Newley, A., **Yesilyurt, E.** & Deniz, H. (2021). Nature of Computer Science: Identification of K-12 Accessible Nature of Computer Science Tenets and Development of an Open-Ended Nature of Computer Science Instrument. In Proceedings of the 17th ACM Conference on International Computing Education Research (ICER 2021). Association for Computing Machinery, New York, NY, USA, 426. DOI:https://doi.org/10.1145/3446871.3469784

Yesilyurt, E., Deniz, H. & Kaya, E. (March, 2021). *Epistemic Aspects of Engineering for K-12 Education*. The paper presented at the annual meeting of the National Association for Research in Science Teaching (NARST) (virtual).

Yesilyurt, E., Deniz, H. & Kaya, E. (2020, Apr 17 - 21) *Sources of Self-Efficacy in an Engineering Professional Development Program for In-Service Teachers* [Paper Session]. AERA Annual Meeting San Francisco, CA http://tinyurl.com/tht6tw8 (Conference Canceled)

Yesilyurt, E. (2020, Apr 17 - 21) *Examining Preservice Teachers' Beliefs About Teaching and Learning Science* [Roundtable Session]. AERA Annual Meeting San Francisco, CA http://tinyurl.com/tbal2b2 (Conference Canceled)

Yesilyurt, E. (2020, March). *History of engineering and engineering education*. The paper presented in the Sandra K. Abell Symposium at the annual meeting of the National Association for Research in Science Teaching (NARST). Portland, OR. (Conference Canceled)

Yesilyurt, E. (2020, March). *Examining elementary students' images of engineers and interests in engineering careers*. The paper presented in the Basu Scholars Symposium at the annual meeting of the National Association for Research in Science Teaching (NARST). Portland, OR. (Conference Canceled).

Deniz, H., **Yesilyurt, E.** & Kaya, E. (2020, Apr 17 - 21) *Toward Defining Nature of Engineering in the Next Generation Science Standards Era* [Poster Session]. AERA Annual Meeting San Francisco, CA http://tinyurl.com/whny5tb (Conference Canceled)

Deniz, H. **Yesilyurt, E.,** Kaya, E., Newly, A. & Lin E. (2020, April). *Integrating engineering, science, reading, and robotics across grades 3-8 in a stem education era*. The paper presented at the annual meeting of the Society for Information Technology & Teacher Education International Conference. (Online)

Deniz, H. **Yesilyurt, E.,** & Kaya, E. (2020, March). *Engineering Professional Development with Robotics and Assessment of K-12 Teachers' Understandings of Nature of Engineering*.

The paper is accepted to present at the annual meeting of the National Association for Research in Science Teaching (NARST). Portland, OR. (Online).

Liu, K., Arroyo, M., Preston, B. & **Yesilyurt, E.** (2020, February). *Using critical counter-narrative to prepare teacher educators of color to teach about race and equity*. The paper presented at the annual meeting of the Association of Teacher Educators, Atlantic City, NJ.

Wilhelm J., Cole, M., Driessen, E., **Yesilyurt, E.,** ….(2019, November). *Spatial-scientific snapshots of middle-level students' lunar understanding.* Paper presented at the 2019 Annual Convention of the School Science and Mathematics Association Salt Lake City, Utah.

Yesilyurt, E., & Raeisi, M. (2019, April). *Exploring the factors related to pre-service teachers' approaches to teaching evolution*. Paper presented at the annual meeting of the National Association for Research in Science Teaching (NARST). Baltimore, MD.

Yesilyurt, E., Deniz H., & Kaya E. (2019, April). *Sources of engineering teaching self-efficacy for pre-service elementary teachers*. Paper presented at the annual meeting of the National Association for Research in Science Teaching (NARST). Baltimore, MD.

Yesilyurt, E., Deniz H., & Kaya E. (2019, April). *Development and validation of the engineering teaching efficacy belief instrument.* Paper presented at the annual meeting of the National Association for Research in Science Teaching (NARST). Baltimore, MD.

Yesilyurt, E., & Raeisi, M. (2019). *Examining pre-service teachers' perceived approaches to teaching evolution*. Global Conference on Education and Research *(GLOCER 2019)* USA.

Yesilyurt, E., Deniz H., & Kaya E. (2019, January). *Improving upper elementary students' nature of engineering views with an engineering design ex*perience. Paper presented at the annual meeting of the Association for Science Teacher Education (ASTE). Savannah, Georgia.

Kaya E. , **Yesilyurt, E.,** & Deniz H. (2019, April). *Assessing the impact of a computational thinking intervention on k-12 science teachers' robotics teaching efficacy beliefs, interest and knowledge in educational robotics.* Paper presented at the annual meeting of the National Association for Research in Science Teaching (NARST). Baltimore, MD.

Kaya, E., Deniz, H., **Yesilyurt, E.,** & Newley, A. (2019, March). *Examining the impact of a computational thinking intervention on pre-service elementary science teachers' computational thinking teaching efficacy beliefs, interest and confidence*. The Society for Information Technology and Teacher Education. Las Vegas, NV, USA.

Kaya, E., **Yesilyurt, E**., Newley, A. D., & Deniz, H. (2018, June), *Investigating computational thinking self-efficacy beliefs of pre-service elementary teachers* Paper presented at 2018 ASEE Annual Conference & Exposition, Salt Lake City, Utah. https://peer.asee.org/30721

Newley, A., & Kaya, E., & Deniz, H., & **Yesilyurt, E.** (2018, June), *Teaching K-8 Students engineering design process through Zoombinis* Paper presented at 2018 ASEE Annual Conference & Exposition, Salt Lake City, Utah. https://peer.asee.org/31055

Marti, E. J., & Kaya, E., & Deniz, H., & **Yesilyurt, E.,** & Iglesias, J. (2018, June), *Assessing high school science teachers' nature of engineering (NOE) perceptions with an open-ended NOE instrument (Fundamental)* Paper presented at 2018 ASEE Annual Conference & Exposition , Salt Lake City, Utah. https://peer.asee.org/29821

Yesilyurt, E., & Deniz H. (2018, April). *Investigating science teachers' causal schemas in the context of evolutionary theory.* Paper presented at the annual meeting of the American Educational Research Association (AERA). New York, NY.

Deniz, H., Kaya, E., & **Yesilyurt, E.** (2018, April). *The differential impact of two engineering professional development programs on elementary teachers' engineering teaching efficacy beliefs.* Paper presented at the annual meeting of the National Association for Research in Science Teaching (NARST). Atlanta, Georgia.

Kaya, E., Deniz, H., & **Yesilyurt, E.** (2018, January*). Examining the impact of a relatively short intervention on science teachers' robotics teaching efficacy beliefs and interest in educational robotics.* Paper presented at the annual meeting of the Association for Science Teacher Education (ASTE). Baltimore, MD.

Yesilyurt, E., &Liu, K. (2018, February). *Single-Case study: Critical storytelling in a doctoral teacher education course*. Paper presented at the annual meeting of the Conference on Academic Research in Education (CARE). Las Vegas, NV.

Yesilyurt, E., & Turgut, R. (2018, February). *Investigating pre-service teachers' knowledge, attitudes and beliefs about second language acquisition and English language learners.* Paper presented at the annual meeting of the American Association of Behavioral & Social Science Conference (AABSS). Las Vegas, NV.

Kaya, E., Newley, A. D., Deniz, H., & **Yesilyurt, E.** (2017, June), Board # 115: EEGRC Poster: *Improving pre-service elementary teachers' nature of engineering views with the use of ev3 robotics.* Paper presented at 2017 ASEE Annual Conference & Exposition, Columbus, Ohio. https://peer.asee.org/27698

Marti, E. J., Deniz, H., Kaya, E., & **Yesilyurt, E.** (2017, June), *Board # 98: High school science teachers' views of nature of engineering and application of engineering design practices*. Paper presented at 2017 ASEE Annual Conference & Exposition, Columbus, Ohio. https://peer.asee.org/27967

Newley, A. D., Kaya, E., & **Yesilyurt, E.,** & Deniz, H. (2017, June), *Board # 104: Measuring engineering perceptions of fifth-grade minority students with the draw-an-engineer-test (DAET)* Paper presented at 2017 ASEE Annual Conference & Exposition, Columbus, Ohio. https://peer.asee.org/27675

Yesilyurt, E., Turgut, R., Kaya, E. & Deniz, H. (2017, April). *General education preservice teachers' attitudes, and beliefs/knowledge regarding second language acquisition and English language learners*. Paper presented at the annual meeting of American Educational Research Association (AERA). San Antonio, TX.

Deniz, H., **Yesilyurt, E.,** Kaya, E. & Trabia, M. (2017, April). *The Influence of an authentic engineering design experience on elementary teachers' engineering teaching efficacy beliefs.* Paper presented at the annual meeting of National Association for Research in Science Teaching (NARST). San Antonio, TX.

Deniz, H., **Yesilyurt, E.,** Kaya, E. & Trabia, M. (2017, April). *The Influence of an authentic engineering design experience on elementary teachers' nature of engineering views.* Paper presented at the annual meeting of National Association for Research in Science Teaching (NARST). San Antonio, TX.

Yesilyurt, E, Cakiroglu J. & Oztekin, C. (2015, April). *Conceptual, structural and epistemic aspects of argumentation practices within the evolutionary context.* Paper presented at the annual meeting of the National Association for the National Association for Research in Science Teaching (NARST). Chicago, IL.

Aydin, G. Ç., Evren, E., Atakan, İ., Sen, M., Yilmaz, B., Pirgon, E., **Yesilyurt E.** ... & Ebren, E. (2016, January). *Delphi technique as a graduate course activity: Elementary science teachers' TPACK competencies*. Paper presented at the *SHS Web of Conferences* (Vol. 26). EDP Sciences.

Workshops
Deniz, H., **Yesilyurt, E.,** & Kaya, E. (2019, November) Integrating Engineering and Computational Thinking with 3D-Printed Engineering Design. The 2019 Annual Convention of the School Science and Mathematics Association (To appear). Salt Lake City, Utah.

Deniz, H., **Yesilyurt, E.,** & Kaya, E. (2019, March). *Integrating 3D Design and Printing with Mechanical Trash Grabber Design Challenge within the Context of the Next Generation Science Standards*. The Society for Information Technology and Teacher Education. Las Vegas, NV. (To appear).

Deniz, H., Kaya, E., & **Yesilyurt, E.** (2018, October). Integrating Engineering Design with Science and Language Arts. National Science Teachers Association (NSTA) 2018 Conference. Reno, NV.

Deniz, H., Kaya, E., & **Yesilyurt, E.** (2018, January). Integrating Engineering Design with Science and Language Arts within the Context of the Next Generation Science Standards. 2018 Association for Science Teacher Education (ASTE). Baltimore, MD.

Grant Proposals:

NSF Grant (Current)
Grant Title: Developing an integrated computer science curriculum for culturally and linguistically diverse classrooms at grades 3-5
Co-PI: Responsibilities include co-leading teacher trainings, oversee the curriculum development, co-lead qualitative analyses, oversee quantitative data analyses, write and disseminate findings.
Source of Support: National Science Foundation/ Computer Science for All
Received Amount: $999,454

NSF Grant (Current)
Grant Title: Aligning the Science Teacher Education Pathway: A Networked Improvement Community
Co-PI: Responsibilities include implementing the ASET Toolkit to support teachers as they shift their own curriculum and instruction to align with the vision of NGSS and to engage with campus pathway partners to extend use of ASET tools into local teacher education pathway.
Source of Support: National Science Foundation/DRK-12
Received Amount: $3,577,306.00

NSF Grant (Submitted):

Grant Title: Advancing AI Literacy through Linguistically Inclusive Integrated Elementary Engineering Curriculum via Educational Robotics
Co-PI: If awarded, responsibilities would include co-leading teacher trainings, oversee the curriculum development, co-lead qualitative analyses, oversee quantitative data analyses, write and disseminate findings.
Source of Support: National Science Foundation/ITES
Request Amount: $ 1.000.000

NSF Grant (In preparation):

Grant Title: AI is Elementary: Integrating Artificial Intelligence with Science, Mathematics, and Language Arts Instruction at Linguistically Diverse Upper Elementary Classrooms
Co-PI: If awarded, responsibilities would include co-leading teacher trainings, oversee the curriculum development, co-lead qualitative analyses, oversee quantitative data analyses, write and
disseminate findings.
Source of Support: National Science Foundation/ DRK-12

Mini-Grant Proposals (UNLV)
Grant Title: Introducing Engineering to Elementary Pre-service Teachers through 3D Printing and Educational Robotics (2017)
Co-PI: Responsibilities included assisting with the research, writing practitioner and/or research-oriented manuscripts and overall program administration
Source of Support: Office of the Executive Vice President and Provost
Received Amount: $2738

Grant Title: Introducing Engineering to Elementary Pre-service Teachers through Educational Robotics (2016)
Co-PI: Responsibilities included assisting with the research, writing practitioner and/or research-oriented manuscripts and overall program administration
Source of Support: UNLV
Received Amount: $2000

Services

2019-Present	Journal of Science Teacher Education (JSTE) Editorial Board Member
2022-2025	Member of the NARST Research Committee
2017-Present	American Educational Research Association (AERA) reviewer for Division C (Science) and Division K (Teaching & Teacher Education)
2017-Present	National Association for Research in Science Teaching (NARST) reviewer for Strand 1 (Science Learning, Understanding and Conceptual Change,), 7 (Pre service Science Teacher Education and Strand) and 13 (History, Philosophy, Sociology, and Nature of Science)

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2018-Present   Association for Science Teacher Education (ASTE) reviewer for strand pre-
                     service science teacher preparation
2017-Present   American Society for Engineering Education (ASEE) Reviewer for strand: pre
                     college engineering education
2017-2018   AERA Division K campus liaison at UNLV (2017-2018). Responsibilities
                     include organizing meetings to inform master and Ph.D. students about AERA
                     conferences.
2016- 2020   Science Fair Judge at Coral Academy of Science Las Vegas: CASLV
2021-Present   Science Fair Judge at Regeneron ISEF/Society for Science

Professional Skills

-   **Languages:** Turkish (Native), English (Fluent),
-   **Computer Skills:** SPSS (Advanced), AMOS(Advanced), R(Intermediate),
    Mplus(Intermediate), Lisrel(Intermediate), Pajek(Intermediate), MS Office Suite
    (Expert), C# (Intermediate), JAVA (Advanced), MATLAB (Intermediate),
    AutoCAD(Intermediate), HTML, CSS, JavaScript (Intermediate), Photoshop
    (Intermediate), LiveCode (Intermediate)

Professional Memberships

-   National Science Teachers Association (NSTA)
-   American Society of Engineering Education (ASEE)
-   National Association for Research in Science Teaching (NARST)
-   American Educational Research Association (AERA)
-   Association for Science Teacher Education (ASTE)
-   International Technology and Engineering Educators Association (ITEEA)