

RESUME



Mirac AYDIN

Professor

Department of Mathematics and Science Education

1. Contact

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2. Profile

2.1. Professional Appointments

Professor

Faculty of Education, Trabzon University, 2023-present

Associate Professor

Faculty of Education, Trabzon University, 2017- 2023

Assistant Professor

Fatih Faculty of Education, Karadeniz Technical University, 2012- 2017

Research Assistant

Fatih Faculty of Education, Karadeniz Technical University, 2002-2011

2.2. Education

Ph.D., Science Education, Karadeniz Technical University, Turkey, 2011.

Exploring A Collaborative Model with Online Supports for Helping Middle Grade Science Teachers Learn Project-Based Science (PBS)

MSc., Science Education, Karadeniz Technical University, Turkey, 2005.

The Effects of Microcomputer Based Laboratories (MBL) Achievement of Pre-service Science Teachers on Electricity

Bachelor, Physics Education, Ondokuz Mayıs University, Turkey, 2001.

2.3. Awards

An Erasmus student at the University of Education, Heidelberg, Germany, 2005-2006.

3. Research/Selected publications for the last three years

Cepni, S., Aydin, M., Ada Yildiz, K. *et al.* Examining the Impact of Modified P3 Task Taxonomy-Enriched Educational Robotics PD Program on Teachers' STEM Content Knowledge. *Int J of Sci and Math Educ* (2024). <https://doi.org/10.1007/s10763-024-10475-1>

Cepni, S., Aydin, M., Iryanti, M. et al. Scaffolding Pre-service Science Teachers' Problem-Solving Strategies in a Methane Gas Detector Task Within an Earthquake-Robotics PD Course. *J Sci Educ Technol* (2024). <https://doi.org/10.1007/s10956-024-10124-w>

Aydin, M., İlkbahar, M. T., İshak, O., & Coskun, A. (2023, November 3). Examining eighth-grade students' understanding of mechanical advantages of the gears through scaffolded ER-based STEM instruction. In *The International Conference on Project-Based Education and Other Student-Activation Strategies and Issues in Science*

Education (PBE 2023). Charles University, Faculty of Education, Czech Republic. See [the paper](#)

Aydin, M., Wiyarsi, A., Fitriyana, N., Ilkbahar, M. T., & Setiawan, I. N. (2023). A lesson plan revisiting the Eratosthenes experiment to teach the seasons inductively from a space-based perspective. *Physics Education*, 58(5), 1-14. <https://doi.org/10.1088/1361-6552/ace8ea>

Aydin, M. (2023, June 16). Investigating problem-solving strategies of pre-service science teachers in an online earthquake engineering-oriented educational robotics course. *International LUMAT Research Symposium 2023*, University of Eastern Finland, Finland.

Aydin, M., Ozcan, I (2022). Evaluating content accuracy of augmented reality applications on the solar system. *Physics Education*, 57-3. DOI: <https://dx.doi.org/10.1088/1361-6552/ac50a4>

Aydin, M. (2022). Using Augmented Reality in Science Education, 25-26 August 2022 *International Seminar for STEAM Doctoral Students*, University of Helsinki, Finland. [See seminar programme](#)

Aydin, M. (2021). Investigating pre-service science teachers' mobile augmented reality integration into worksheets, *Journal of Biological Education*, 55-3, 276-292., DOI: <https://doi.org/10.1080/00219266.2019.1682639>