

NURSAH YAKUT

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SUMMARY

I am a graduate research assistant in the Learning Design and Technology program at Purdue University. My research primarily focuses on using emerging technologies to enhance learning environments. I am particularly passionate about exploring how technology can empower learners and create more effective, personalized education.

EDUCATION

Purdue University, US *August 2022 - Ongoing*
Ph.D, Learning Design and Technology *3.89/4.00*
Advisors: Dr. William Watson and Dr. Marisa Exter

Gazi University, Turkey *September 2019 - August, 2022*
M.Sc, Assessment and Evaluation in Education *3.89/4.00*
Thesis: Comparison of Classification Accuracy Indices within the Scope of Item Response Theory
Advisor: Dr. Emine Onen

Balikesir University, Turkey *September 2015 - May 2019*
B.Sc, Mathematics Education *3.48/4.00*

RESEARCH EXPERIENCE

Department of Curriculum and Instruction at Purdue University, US *2024 - Ongoing*
Graduate Research Assistant

- Collaborating on the Engineering Character Initiative (ECI), a multi-institutional project focused on integrating character development into undergraduate engineering and computing courses.
- Developing Open Educational Resources (OER).
- Assisting in the redesign of technical coursework to integrate character-building elements and promote lifelong learning in professional contexts.
- Contributing to the dissemination of project findings through academic presentations and professional publications.

Office of Undergraduate Research (OUR) at Purdue University, US *2023 - 2024*
Graduate Research Assistant

- Contributed to projects such as Competency-Based Undergraduate Research Experiences (CUREs) and the development of Learning Contracts to enhance mentor-mentee relationships.
- Mentored undergraduate research interns, providing guidance on research methodologies and fostering their professional growth.
- Led qualitative data coding and analysis efforts in collaboration with undergraduate interns, identifying key themes to inform program improvements.

Department of Curriculum and Instruction at Purdue University, US *2022 - 2024*
Graduate Research Assistant

- Contributed to the NSF-funded project DEAP (DEAPening Employer-Academic Partnerships), a 3 million dollars, multi-disciplinary, multi-institutional initiative aimed at advancing competency-based education in computing.
- Collaborated with the Purdue Competency Research Team along with faculty members and researchers from 8 universities.
- Developed Open Educational Resources (OER) to support educators.
- Designed a survey instrument to collect data, contributing to the project's research on improving computing curricula.
- Conducted pilot tests for the survey instrument to ensure clarity, reliability, and validity before full deployment.

TEACHING EXPERIENCE

Purdue University, US

Spring 2025

Co-Instructor

- Co-teaching an online course: Educational Video Game Design.
- Managing grading and provide detailed feedback on student assignments.
- Moderating discussion forums and support overall course administration.

Fatih Middle School, Turkey

Spring 2019

Trainee Teacher

- Organized classes and supported students' educational and social needs during and outside of lessons.

General Kemal Balikesir Middle School, Turkey

Fall 2018

Trainee Teacher

- Assisted in the educational and social development of students under the supervision of the main teacher.

Teaching Mathematics Subject, Turkey

Fall 2016 - Spring 2019

Mathematics Tutor

- Provided personalized instruction to students, focusing on improving their understanding and performance in mathematics.

ACADEMIC PRESENTATIONS

Yakut, N. (2025). Work-in-Progress: Systematic Review of Competency Assessment Methods in Computing Education [Student Research Competition]. The Technical Symposium on Computer Science Education (SIGCSE TS), Pittsburgh, PA, USA.

Yakut, N. & Zywicki, C. (2024). Agreements, Contracts, or Compacts: Uncovering the Expected Learning in Mentor-Mentee Relationships [Live Oral Presentation]. ConnectUR 2024 Annual Conference, virtual.

Yakut, N. & Childress, A. (2024). Bridging Theory and Practice: Enhancing Career Readiness through Undergraduate Research [Share and Solve]. ConnectUR 2024 Annual Conference, virtual.

Yakut, N. (2023). The Effects of Intelligent Tutoring Systems on Students' Motivation in Mathematics Education: A Systematic Literature Review [Poster Presentation]. Annual Graduate Student Education Research Symposium (AGSERS), West Lafayette, IN, USA.

Yakut, N. & Onen, E. (2022). The Comparison of Classification Accuracy Indices within the Scope of Item Response Theory [Paper Presentation]. International Young Researchers Congress-II (GUGAK-2022), virtual.

SERVICES

Judge, Fall Undergraduate Research Expo, 2024

Treasurer, Purdue Association of Learning Design and Technology (PALDT), 2023–2024

Volunteer, Physics is Fun Project, 2022–2023

Volunteer, Imagination Station, 2022–Present

Project Coordinator, Mutlu Patiler Project, Toplum Gönüllüleri Vakfi (TOG), 2018–2019

Project Coordinator, Nar Projesi, Toplum Gönüllüleri Vakfi (TOG), 2017–2018

Volunteer, Bilim Tırı Project, Balıkesir University Mathematics Society, 2016–2017

Voluntary Teacher, Matematik Cepte Project, Balıkesir University Mathematics Society, 2015–2019

GRANTS AND AWARDS

Travel Grant (\$500), The 56th ACM Technical Symposium on Computer Science Education

PROFESSIONAL ORGANIZATIONS MEMBERSHIP

Association for Educational Communications and Technology (AECT)

American Educational Research Association (AERA)

Association for Computing Machinery (ACM)

ACM Special Interest Group on Computer Science Education (SIGCSE)