



William Paterson University of New Jersey

The 16th Annual WP Educational Technology Conference (ONLINE)
Computer Science Education in K–12 Settings: Action in Practice

Friday, November 14th, 2025, 8:30 am–3:00 pm, ET

The New Jersey Student Learning Standards for Computer Science (NJSLS-CS) emphasize the importance of preparing students to thrive in today's knowledge-based economy. These standards aim to equip learners across all grade levels with essential knowledge and skills in computational thinking, problem-solving, and innovation through the integration of computer science. This year's conference is designed to support teachers and school leaders in implementing effective computer science instruction in their K-12 schools. Participants will receive 6.5 professional development hours.

Conference Chairs: Heejung An and Gigi Mohamad

Keynote Session:

Amy Eguchi, University of California San Diego

Computer Science (CS) and Artificial Intelligence (AI) for Everyone: Integrating Computer Science Education and AI Literacy into Everyday Lessons



The keynote explores how computer science (CS) education and artificial intelligence (AI) literacy can be seamlessly integrated into everyday classroom experiences across subjects and grade levels. Grounded in the belief that CS and AI literacy should be accessible and relevant to all learners, the presentation offers practical strategies for culturally responsive integration that honors students' diverse identities, needs, and lived experiences. It will also highlight inclusive pedagogies, interdisciplinary approaches to CS and AI integration, and classroom practices that empower every student.

Topics in breakout workshops will include:

- Advancing Computer Science (Python Programming) Instruction through Process-Based Analytics
- Bridging Math and Code: Teaching Algebra with Scratch Programming
- Cybersecurity in the Classroom: Attacks, Tools, and Defenses
- Develop a Foundational Understanding of Coding Through Geometric Patterns Using Hopscotch
- Deploying Design Justice to Code Solutions for Communities in Need
- Empowering Computer Science (CS) Teaching with Artificial Intelligence (AI): Practical Uses of Large Language Models in Programming Education
- Introducing Machine Learning to Young Learners: Practical Approaches
- Pathways to CS: Scaffolding Learning Across K-6 Grades with Free Online Resources
- Teaching Introductory Programming with Generative Artificial Intelligence (AI): Strategies for CS and Engineering Educators
- Teach About Artificial Intelligence Starting in Kindergarten? ABSOLUTELY
- The Synergy Between Literacy and Computer Science in Elementary Grades
- Unplugged-to-Plugged: A Blended Approach to Coding Instruction

- Participants will receive **6.5** Professional Development Hours
- Fee: \$49.99
- Registration: <https://tinyurl.com/wpedtech>
- Contact: Brie Mesagaes at mesagaesb@wpunj.edu
- Website: <https://www.wpuedtechconference.com/>