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She is known for her work on programming models, performance tools, and system software for emerging parallel architectures. She received her PhD degree from the University of California, San Diego, and later the Luis Alvarez Postdoctoral Fellowship from Lawrence Berkeley National Laboratory. She received the Marie Skłodowska-Curie Individual Fellowship from the European Commission in 2015, the BAGEP Award from the Turkish Academy of Sciences in 2019, the British Royal Society Newton Advanced Fellowship in 2020, and the 2021 Scientist of the Year – Young Scientist Awards by Bilim Kahramanları Derneği in Turkey.