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Prior to joining the University of Utah, he was a research associate at the Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland within the Laboratory of Integrated Systems (Prof. De Micheli) and a visiting research associate at Stanford University, Palo Alto, CA, USA. Previously, he was research assistant at CEA-LETI, Grenoble, France. Prof. Gaillardon is recipient of the C-Innov 2011 best thesis award, the Nanoarch 2012 best paper award, the BSF 2017 Prof. Pazy Memorial Research Award, the 2017 NSF CAREER award, the 2018 IEEE CEDA Pederson Award, the 2018 ChemE Education William H. Corcoran best paper award, the 2019 DARPA Young Faculty Award, the 2019 IEEE CEDA Ernest S. Kuh Early Career Award, the 2020 ACM SIGDA Outstanding New Faculty Award, the 2022 ECE Department Research Faculty Award and the 2023 DARPA under-40 Innovators Award. He has been serving as TPC member for many conferences, including DATE, DAC, ICCAD, Nanoarch, etc.. He is a senior member of the IEEE.

The research activities and interests of Prof. Gaillardon are focused on the development of novel computing systems exploiting emerging device technologies and novel EDA techniques.