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*Computer programming in "doing mathematics": Mathematical research vs. undergraduate mathematics education*

Many mathematicians today construct computer programs in order to accomplish important research tasks, be it calculation, visualisation, experimentation, simulation, or even proof. And yet, undergraduate mathematics students are only rarely invited to conceptualize and write their own programs. Why? The experiences and perspectives of 14 Canadian mathematicians provide possible explanations and may serve as the foundation for bridging the gap, should that be deemed the favourable direction to take.