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G Brock Williams* (brock.williams@ttu.edu), Dept of Mathematics and Statistics, Texas Tech University, Lubbock, TX 79409. *Complex Functions and Circle Packings*.

In 1985, William Thurston conjectured that maps between circle packings could be used to approximate conformal maps. His conjecture was quickly proved by Burt Rodin and Dennis Sullivan, and since then a discrete version of complex analysis based on circle packing maps has emerged. We will describe our recent contributions to this effort, including advances in quasiconformal mappings and mappings of Riemann surfaces. (Received February 02, 2006)