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Jemma Lorenat* (jlorenat@pitzer.edu). *Algebraic symbols and geometrical reality: the algebraic geometry of Charlotte Angas Scott.*

Through the 1890s the geometer Charlotte Angas Scott motivated her research as building a geometric understanding of algebraically given curves. In her publications, Scott referred to a historical lineage of analytic/algebraic geometers, who had all addressed the subject with a range of analytic and geometric techniques. While drawing upon this tradition, Scott revisited the algebraic treatments of her contemporaries to provide graphical analyses and show geometrical reality. These expressions suggest a visually oriented approach, which can also be observed in Scott's extensive and creative use of figures and diagrams. These drawn objects reflected Scott's language choices, and frequent decision to explicitly forgo algebraic terminology in favor of geometrically suggestive names. This talk will proceed roughly chronologically to illustrate Scott's conception of geometrical existence through her practice of alternative proofs beginning with her research on singularities, then considering her writings on intuition, and concluding with the pedagogical writings of her first textbook. (Received August 21, 2017)