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The Art and Craft of Science

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In this talk, I will discuss the interplay of art, craft, and science from both a historical perspective as well as through my personal experiences. While such endeavors are frequently viewed as disparate, success requires use of a number of common technical skills, thought processes, and technologies. Incorporating elements of art and craft into scientific education and research opportunities opens new pathways for discovery and has potential to enhance inclusivity and diversity in science. In particular, craft, via its modern embodiment in the global rise of makerspaces, has tremendous capacity to facilitate student involvement in meaningful contributions to research and design at very early stages in their careers. Furthermore, art and craft can provide effective media for outreach and public engagement in science. Examples of the integration of art and craft into my own educational and research initiatives will be discussed throughout.