Prosthetics is a hot topic, from debates on ethical implications to the amazing possibilities. It is also the focus of many research endeavors, offering researchers the perfect blend of creating meaningful impact, pushing the boundaries of scientific knowledge, and working with tangible objects that we can see and hold. Compared with the human body, prostheses are a poor substitute, but there is also much promise from technologies being developed in related fields, such as smart phones, autonomous cars, and bipedal robots.

This talk will cover some of the game-changing paradigm shifts happening in the field at the moment, ranging from surgical, engineering, and therapeutic, and ultimately understanding how the user’s behavior itself is integral to optimizing the system (computational motor control).

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