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## Hamilton Health Sciences

McMaster University and St. Joseph's Healthcare

June 1, 2022

## The Population Health Research Keynote Lecture



### **Kay Wu, MD**

2021 CMHF Award Recipient

2021 Dr. Brian Brodie Medical Learner Leadership Award, CMA

*'Art + Technology + Medicine = ?'*

Kay Wu, a creative at heart, dreams of using technology and innovation to take health care to new heights. Her work towards this goal centres around technological advancement, innovative delivery of medical education, and fostering communities of health innovators. As Clinical Advisor to McMaster's Innovators in Scrubs, Kay and her team have created a prototype of a natural language processing tool to improve patient understanding of medical reports. A finalist in the BioTEC Pitch Competition, this tool garnered the support of Joseph Brant Hospital and will soon be piloted. Recognizing the need for virtual care training during the pandemic, Kay spearheaded MacSim— a novel, immersive, and technology-enhanced case simulator. Hundreds of medical students and physicians gained clinical decision-making and communication skills through this initiative, which she presented at the Canadian Conference on Medical Education. Fascinated by the potential of machine learning, Kay led a research team at the MIT COVID-19 Datathon, focusing on the impact of the pandemic on marginalized communities. She also helped to organize the inaugural MIT Hacking Racism in Healthcare hackathon, an unprecedented space for collaboration among over 500 patients and health professionals to code novel solutions to dismantle racial injustice in healthcare delivery and address the social determinants of health. Outside of medicine, Kay unleashes her creativity painting and writing stories.