In his first years as a computer science major, Felix Hu ('14) envisioned a career in big data or machine learning. Then, Data as Art happened.

A collaboration between Northwestern and the School of the Art Institute of Chicago (SAIC), this innovative course challenges students to translate complicated information into visual art or images for the masses. For Hu, it also ignited a passion for tangible digital design and launched a journey that resulted in Osmo Coding, a recently released game that helps children learn the basic concepts of computer programming.

“The space between the tangible and the digital is such an interesting area to explore because there’s so much to discover,” Hu says.

While taking Data as Art during the summer prior to his senior year, Hu and SAIC student Ariel Zekelman began exploring different tangible design products. They continued their search after completing the course, and as Hu neared graduation, he contacted Mike Horn, associate professor of electrical engineering and computer science and leader of Northwestern’s Tangible Interaction Design and Learning (TIDAL) Laboratory, to inquire about ongoing projects.

Horn acknowledges, “Felix was the engine here, and he attacked the project with a drive and enthusiasm that made it happen.”

In September 2015, the trio ventured to Silicon Valley for a meeting with Tangible Play, a startup focused on educational games. Tangible Play’s leaders liked Strawbies so much they offered to buy it and to hire both Hu and Zekelman.

“It was great validation of our work,” Hu says. Renamed Osmo Coding, the game, which blends digital and physical play, launched publicly in May 2016 and generated favorable press from no less than The Wall Street Journal and Forbes.

“It was an absolute whirlwind,” says Hu, who continues releasing new content for Osmo Coding while helping Tangible Play conceptualize new games.

Reflecting on the enthusiastic acceptance of the game by both children and their parents, Hu notes, “Research projects often start and end in the lab, so it’s beyond exciting to have research come to life and bring kids joy.”

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