

EMMA HSIAO

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Multidisciplinary Scientist & Designer

A creative scientist and entrepreneurial thinker who bridges the gap between complex data and human connection. I leverage a unique cross-disciplinary toolkit to drive innovation, amplify impact, and deliver measurable results from the lab to the marketplace.

EXPERIENCE

Marketing Intern @ HERO Projects

JUNE 2024 - AUGUST 2024

Developed and implemented a strategic social media marketing plan that increased brand visibility.

UI/UX Design @ POWER Cycle Writing by Streamlined Literacy

MAY 2023 - SEPTEMBER 2023

Designed and prototyped the user interface and experience for an educational writing application. Developed wireframes and mockups using Figma, Adobe Photoshop, and Illustrator.

Research Intern @ the Liu Lab at Harvard SEAS

JULY 2021 - MARCH 2023

Partnered with researchers at the Broad Institute of MIT and Harvard to design data visualizations and scientific illustrations. Translated complex experiments into clear, engaging visual formats to support research communication.

Undergraduate Researcher/3D Artist @ the Irschick Lab, UMass Amherst

JANUARY 2022 - DECEMBER 2022

Developed highly accurate 3D reconstructions of animal specimens using photogrammetry and Blender to support scientific research in evolutionary morphology.

Science Communication @ the Waquoit Bay National Estuarine Research Reserve

JUNE 2020-SEPTEMBER 2020

Developed public-facing science communication materials, including brochures, infographics, and interactive exhibit content to improve accessibility of water quality data. Organized meetings between student volunteers and researchers.

PROJECTS AND SKILLS

Tale of Scales | Kickstarter Success

Designed, illustrated and crowdfunded a poker card deck on Kickstarter, which achieved 100% funding in 10 days and raised \$6,000+ in 30 days. The deck, Tale of Scales, has been sold at retail locations and promotes awareness of reptile and amphibian biodiversity. Proficient with the Adobe Creative Suite: Adobe Premiere Pro, After Effects, Character Animator, InDesign, Dreamweaver, and Photoshop.

Biology Lab Skills

Presented and conducted research in lab settings. Proficient in PCR, sterile technique, photogrammetry, microscopy, and biochemical assays.

EDUCATION

Brown University

Bachelor's of Arts in Biology and Visual Arts

Providence, RI

Class of 2025

PUBLICATIONS

Sandy M Kawano, Johnson Martin, Joshua Medina, Conor Doherty, Gary Zheng, **Emma Hsiao**, Matthew J Evans, Kevin de Queiroz, R Alexander Pyron, Jonathan M Huie, Riley Lima, Esther M Langan, Alan Peters, Duncan J Irschick, Applying 3D Models of Giant Salamanders to Explore Form-Function Relationships in Early Digit-Bearing Tetrapods, Integrative and Comparative Biology, 2024, icae129, <https://doi.org/10.1093/icb/icae129>

Lin Z, Garbern J, Liu R, Li Q, Juncosa E, Elwell H, Sokol M, Aoyama J, Deumer U, **Hsiao E**, Sheng H, Lee R, Liu J. 2022. Tissue-embedded stretchable nanoelectronics reveal endothelial cell-mediated electrical maturation of human 3D cardiac microtissues. Science Advances.

Sheng H, Liu R, Li Q, Lin Z, He Y, Jin L, Blum T, Tang X, Wang Z, Le Floch P, **Hsiao E**, Wang W, Shen H, Zhao S, Liu S, Solomon D, Wang X, Lu N, Liu J. 2022. Brain implantation of tissue-level-soft and stretchable bioelectronics via embryonic development. Nature.