EMMA HSIAO

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Multidisciplinary Scientist & Designer
Bridging Biology, Art, and Innovation through Research, Design, and Science Communication

EDUCATION

Brown University — Providence, RI
Bachelor's of Arts in Biology and Visual Arts — Class of 2025

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.

Social Media, Animation, & Adobe Suite Skills
Grew a YouTube channel to 20,000 subscribers through engaging video content and animation.
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.

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.

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.