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FAHN-
LAI

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brooklyn, ny usa 11222
researcher/designer/educator

EDUCATION

HARVARD UNIVERSITY PH.D. '21

Organismic & Evolutionary Biology

BROWN UNIVERSITY SC.M. '14

Ecology & Evolutionary Biology

BROWN UNIVERSITY A.B. '13

International Relations and Human Biology
Magna cum laude, Phi Beta Kappa

EXPERIENCE

QUANTCO/VIRDX

DESIGN ENGINEER '24-

UX, front-end development, interaction design.

FREELANCE

DESIGNER '12-

Print, digital, and web design, branding, scientific illustration.

DEPT. OF PEACE & CONFLICT STUDIES, SWARTHMORE COLLEGE

CONSULTANT '23-

Content and strategy.

D-LAB, HARVARD T.H. CHAN SCHOOL OF PUBLIC HEALTH

RESEARCH ASSOCIATE '21-'23

System dynamics research to inform behavioral interventions in global health settings.

BOK CENTER LEARNING LAB, HARVARD U.

MEDIA DESIGN FELLOW '17-'21

Front-end development, instructional design prototypes, workshops, and course consultations.

FACULTY OF ARTS AND SCIENCES, HARVARD U.

TEACHING FELLOW '16-'21

Workshops, laboratory sections, faculty consultations.

PIERCE LAB, BIEWENER LAB, HARVARD U.

PH.D. RESEARCHER '15-'21

Evolution of the mammalian rotator cuff muscle complex. Used radiological imaging, 3D force analysis, computer vision, deep learning, and novel data visualization techniques.

CENTER FOR MIDDLE EAST STUDIES, BROWN U.

DESIGN LEAD '13-'21

Branding, communication design.

ACTBLUE, SOMERVILLE MA

DESIGN LEAD '15

Visual identity system, motion graphics, print and digital assets.

AEROMECHANICS & EVOLUTIONARY MORPHOLOGY LAB, BROWN U.

RESEARCH ASSISTANT '14-'15; MASTERS STUDENT '13-'14

Flight behavior and neuromuscular function in fruit bats.

SHERIDAN WRITING CENTER, BROWN U.

ASSOCIATE '13-'14; FELLOW '11-'13

Editing and mentorship of undergraduate and graduate expository writing.

AIP FOUNDATION, PHNOM PENH

VISITING ASSOCIATE '13

Site visits and stakeholder engagement at public health nonprofit.

JAMES MARTIN CENTER FOR NONPROLIFERATION STUDIES, MONTEREY INSTITUTE OF INTERNATIONAL STUDIES

VISTING FELLOW '12

Accidental risks of Indian and Pakistani nuclear posture.

ALTSHULER LAB, U. OF BRITISH COLUMBIA

RESEARCH ASSISTANT '11-'12

Form and function of Andean hummingbird wings.

AWARDS & RECOGNITION

Harvard College Special Commendation for Extraordinary Teaching in Extraordinary Times

GSAS Professional Development Fund

Wetmore Colles Publication Grant

Bok Certificate of Excellence in Teaching

Robert A. Chapman Fellow

S. C. Rosenberger Prize in International Relations

Davis Fellow

Davis United World Scholar

PUBLICATIONS & PRESENTATIONS

SELECTED ARTICLES

Brocklehurst, R. J., P. Fahn-Lai, S. Regnault, and S. E. Pierce. 2022. Musculoskeletal Modeling of Sprawling and Parasagittal Forelimbs Provides Insight into Synapsid Postural Transition. *iScience*.

Fahn-Lai PH, Biewener AA, Pierce SE. Broad Similarities in Shoulder Muscle Architecture and Organization across Two Amniotes: Implications for Reconstructing Non-Mammalian Synapsids. *PeerJ* 2020 Feb: e8556.

Fahn-Lai PH, Biewener AA, Pierce SE. Three-dimensional mobility and muscle attachments in the pectoral limb of the Triassic cynodont *Massetognathus pascuali* (Romer, 1967). *J Anat.* 2018 Mar;232(3):383-406.

TALKS

UBC Comparative Zoology Invited Seminar Speaker '21

Society for Integrative and Comparative Biology '21, '15

SICB NE Division of Vertebrate Morphology '17, '18, '19

International Congress of Vertebrate Morphology '19, '16

North American Society for Bat Research '14

LEADERSHIP & TEACHING

ST. JUDE CHILDREN'S RESEARCH HOSPITAL

Design Thinking Module, MSc in Global Child Health | Guest Lecturer '21

HARVARD UNIVERSITY

Graduate School Leadership Inst. | Fellow '18, Leadership '19

Dept. of Organismic and Evolutionary Biology | Departmental Remote Support Teaching Fellow '20

LS2 Evolutionary Human Physiology and Anatomy | Teaching Fellow '16

OEB 126 Vertebrate Evolution | Teaching Fellow '17, '20

Let's Play! What Games Can Teach Us About Motivation and Engagement | Co-instructor '19

Life Sciences Outreach Program | Lecturer '18

I <3 Science Day | Educator '17, '18, '19

Student Leader Convening on Addressing Sexual Assault at Harvard | Co-organizer '16

BROWN UNIVERSITY

BIOL1800 Animal Locomotion | Teaching Assistant '13

SKILLS

LANGUAGES

Javascript (React, Svelte, Node, Express, Three, d3), Python (Jupyter), CSS (Tailwind, Emotion, Styled-Components), HTML, R (RStudio), MATLAB

Cantonese, French, Mandarin, Spanish

SOFTWARE

Tensorflow, OpenCV, FFmpeg

Adobe Illustrator, Indesign, Photoshop, After Effects

Figma

Autodesk Maya, 3DS Max, Mudbox

Materialize Mimics, 3-Matic

SIMM/OpenSim

Airtable

Microsoft Office

OTHER

High-speed research imaging (light, X-Ray)

Veterinary survival surgery

Editing (academic, copy)