

ELIZABETH SONG LOCKARD

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[Education]

University of Hawaii at Manoa | PhD, Futures Studies [2013]

Dissertation: *"Human Habitation in Space: Alternative Technological Approaches for Long-Term Adaptation to Extraterrestrial Environments and the Impact on Evolution"*

Published by Springer in their Outstanding Doctoral Research series [2014]

Yale University School of Architecture | M.Arch, Architecture [1994]

Boston Architectural College | [1988 – 1991]

University of New Hampshire | BA, Philosophy | Minor: Political Science [1985]

[Awards | Fellowships]

Chaminade University | Faculty Development Fellowships [2021] [2019] [2017] [2016]

Soroptimist International | Founder Region Fellowship, *Doctoral Dissertation* [2009]

Embassy of the Netherlands | Research & Teaching Grant, *Hanoi Urban Development Project* [1997]

Eastman Foundation | Research & Teaching Grant, *Hanoi Urban Development Project* [1997]

Graham Foundation for the Fine Arts | Research & Teaching Grant, *Hanoi Urban Development Project* [1996]

American Academy of Art and Architecture | '39 Architects under 39' International Competition [1996]

Yale School of Architecture | Graham Foundation Grant (Yale Building Project) [1994]

| Class Marshal [1994]

| Takenaka Fellowship Candidate [1993]

| S.O.M. Travelling Fellowship Candidate [1993]

| Kenneth A. Housholder Scholarship [1992]

American Institute of Architects | Plan/NH Fellowship [1993]

Boston Society of Architects | International Competition: 'Unbuilt Projects' [1992]

Boston Architectural College | A. Cascieri Scholarship Candidate [1989]

| Joseph M. Bradley Scholarship [1988]

University of New Hampshire | Pi Gamma Mu Honor Society [1985]

| Mortar Board Honor Society [1985]

[Affiliations]

NCIDQ (National Council for Interior Design Qualification) | Credentialed Interior Designer

ASID (American Society of Interior Designers) | Professional Member

IIDA (International Interior Design Association) | Professional Member

LEED (Leadership in Energy & Environmental Design) | Green Associate

IDEC (Interior Design Education Council) | Professional Member

SHADE Institute (Sustainable Humanitarian Architecture & Design for the Environment) | Board of Advisors

SpaceArchitect.org | Space Architecture Technical Committee Member

American Institute of Aeronautics and Astronautics | Professional Member

Astrosociology Research Institute | Board of Advisors

HI-SEAS (Hawaii Space Exploration Analog Studies) | Researcher

Chaminade University Department of Environmental + Interior Design | Board of Advisors [2011-2021]

Pacific Ancient & Modern Languages Association | Member

Hawaii Research Center for Futures Studies | Member

Hawaii Society for Technology in Education | Member

AAUP (American Association of University Professors) | Member [2015-2019]

Hawaii Kai Neighborhood Board | Elected Representative [2015-2016]

Soroptimist International | Member [2016-2017]

Swiss Society of Engineers & Architects (SIA) | Registered Architect [2000-2004]

[Teaching Experience]

The Pacific Academy of Building Design

Honolulu, Hawaii

January 2022 – present
Founder & Executive Director

SHADE Institute

Honolulu, Hawaii

Kanehili Community Development Project

January 2022 – present
Professional Mentor

Chaminade University | Environmental + Interior Design Program

Honolulu, Hawaii

Courses taught:

EID 200 Fundamentals of Interior Design
EID 202 Introduction to Technical Drawing
EID 216 Design Thinking & Visualization
EID 220 Building Systems & Components
EID 271 Materiality in Interior Design
EID 355 Sculpture & Fabrication
EID 384 Sustainability in Design
EID 414 Portfolio Preparation
EID 415 Professional Practice Internship
EID 471 Senior Commercial Design Studio
HU 494/498 Senior Thesis in Humanities

August 2010 – December 2021
Professor (tenured)

University of Hawaii | School of Architecture

Honolulu, Hawaii

Courses taught:

ARCH 101/102 Basic Architectural Design Studio
ARCH 202/202 Intermediate Architectural Design Studio
ARCH 301/302 Advanced Architectural Design Studio
ARCH 320 Introduction to Architectural Building Systems

August 2007 – July 2008
August 2004 – July 2005
Assistant Professor

Hochschule für Gestaltung und Kunst [College of Design and Art]

Zurich, Switzerland

Scenography Design
Industrial Design

May 2003 – June 2004
Guest Instructor
Thesis Mentor

Dông Đô University | Architecture Department

Hanoi, Vietnam

Hanoi Urban Development Project

July 1996 – June 1997
Project Director &
Lead Researcher

Yale University | School of Architecture

New Haven, Connecticut

Undergraduate Design Studio
Philosophy of Architecture
Yale Building Project
Woodshop Supervisor
Machine Shop Assistant

September 1991 – August 1994
Teaching Fellow

University of New Hampshire | Philosophy Department

Durham, New Hampshire

Symbolic Logic

September 1982 – May 1985
Teaching Assistant &
Course Coordinator

[Professional Experience]

AS INDEPENDENT PRACTITIONER:

Kaufman Residence | Aiea, Hawaii [2021]

Luxury kitchen renovation

Francis Residence | Honolulu, Hawaii [2021]

Townhouse renovation

Marina City Club | Los Angeles, California [2018]

Luxury condominium renovation

Pantawan Arts & Learning Center | Negros, Philippines [2017]

Proposed new construction of a 4-story indigenous community center on the island of Negros; pro bono architectural services for non-profit organization

Robinson Residence | Honolulu, Hawaii [2016]

Kitchen & dining room renovation

Waterfront Tower | Honolulu, Hawaii [2015]

Luxury condominium renovation

Hale Nakamura | Honolulu, Hawaii [2013]

Residential renovation of 1300 sf local-style, single-wall construction, with second story addition and lanais

Hale Kekupua | Honolulu, Hawaii [2010]

Residential renovation of 1700 sf local-style, single-wall construction, with second story addition and lanais and integration of sustainability features

Pownal Residence | the Berkshires, Vermont [2007]

New construction of a 4200sf private residence with views of the Berkshires, and separate guest cottage

Casa Arturo | Manuel Antonio, Costa Rica [1999]

New construction of a steel-frame, wood- and thatch-clad, 180 m2 house overlooking the Pacific Ocean

'Creating Kids' Daycare Center | New Haven, Connecticut [1994]

Fit-out of existing first floor of a commercial building for three different age groups, including a playground in the courtyard; interactive elements built to children's scale

EIGHT INC.

Honolulu, Hawaii

October 2005 – March 2007

Project Manager

Ko'Olina Station & Center | Ko'Olina, Hawaii [2007]

New construction of a \$25 million commercial, office, and retail complex comprised of 4 separate buildings, including a gas station, supermarket, and underground parking

Beachwalk | Honolulu, Hawaii [2006]

New construction of a 2-story luxury retail center in downtown Waikiki

Hale Koloa | Honolulu, Hawaii [2005]

Renovation of and addition to an existing 2800 sf private residence in Kahala

MARBOT|LOCKARD DESIGN

Thörigen, Switzerland

February 1999 – July 2004

Partner

Käserei Farmhouse | Thörigen, Switzerland [2000]

Conversion of a 400-year-old farmhouse into a single-family residence over an existing cheese factory

Marbot Schreinerei | Thörigen, Switzerland [2000]

Office and studio addition to an existing carpentry woodshop, including exhibition space

Blickfang Design Exhibitions | Stuttgart & Zürich [2004]

International furniture and lighting design exhibitions

CAPS ARCHITECTS LTD.

Zurich, Switzerland

May 2001 – June 2003

Project Architect

Hugo Boss Stores | Worldwide [2003]

Furniture and architectural design concepts for the Hugo Boss Traveler line and the Orange Sports line for stores in Europe and Asia

Christian Lacroix Stores | Worldwide [2002]

Furniture and architectural design concepts for ready-to-wear line; design of flagship store with new branding concept in Tokyo, including boutiques in Paris and Seoul

U.S. EMBASSY

Hanoi, Vietnam

August 1997 – November 1998

Architect / Project Manager

U.S. Consular Offices | Ho Chi Minh City, Vietnam [1998]

Office fit-outs for the U.S. Immigration Service Office, U.S. Agriculture Service Office, U.S. Commercial Service Office, and U.S. Information Service Office on the 12th floor of an existing high-rise tower in downtown; design of locally manufactured furniture; design required to meet stringent US security requirements and codes

U.S. Embassy Commercial Service Office | Hanoi, Vietnam [1998]

Interior renovation of existing embassy office

HANOI ARCHITECTURAL HERITAGE FOUNDATION

Hanoi, Vietnam

December 1996 – December 1997

Architect / Project Manager

IUCN Office for Wildlife Conservation | Hanoi, Vietnam [1997]

Interior office renovation of an historic French Colonial building

Hoa Sua Restaurant | Hanoi, Vietnam [1997]

Restaurant renovation and furniture design, in a Franco-Vietnamese style

PROTEAN DESIGN

Boston, Massachusetts

May 1994 – September 1996

Partner

Carter Residence | New York City, U.S.A. [1995]

3-story loft renovation in a converted industrial building in Soho

Scontsas Residence | New Hampshire, U.S.A. [1995]

Interior renovation

Bailey/Crapsey Residence | Boston, U.S.A. [1994]

2-story condominium renovation in an historic building in the South End, with suspended spiral stair

DECASTRO NELSON ASSOCIATES

Boston, Massachusetts

January 1988 – August 1991

Junior Designer & Modelbuilder

Gardner State Prison | Massachusetts, U.S.A. [1990]

Extensive renovation and expansion of a medium-security prison complex, incorporating new security building materials and space planning

St. Mary's Church | Boston, U.S.A. [1989]

Interior renovation of a Catholic church in the Gothic style, with new glass gazebo structure for additional ecclesiastic functions

[Publications + Presentations]

“The Evolution of Space Architecture and its Potential to Inspire New Paradigms for Inhabiting Earth”

Chapter titled *The Future of Architecture on Earth and in Space: Lessons & Synergies*; in *Ecological Design Thinking: Healthful Ecotopian Visions for Architecture & Urbanism*, Mitra Kanaani (editor), Routledge [2021]

“Integrating Productive Failure as a Pedagogical Strategy in Design Thinking” (review pending) [2021]

Submitted to 2021 Asian Conference on Education and the Journal for Higher Education Theory & Practice

“Pantawan: To See Beyond” (with E. Washburn-Repollo)

To be presented at the AMPS Conference (Architecture | Media | Politics | Society) on Experiential Design—Rethinking Relations between People, Objects and Environments, Tallahassee, FL [2020]

“Bringing Nature into Space: The Potential for Restoration Using Virtual Reality” (with A. Kaufman)

Presented at the 49th International Conference on Environmental Systems (sponsored by the American Institute for Aeronautics and Astronautics), Boston, Massachusetts [2019]

“From Hostile to Hospitable: Changing Perceptions of Space”

Published in *LINKs* by CNRS (French Center for Scientific Research) [2019]

“Adapting Higher Education Curricula to Reflect an Interdependent World”

Presented at the IAFOR International Conference on Education, Honolulu, Hawaii [2019]

“Protection, Correction, Reflection: Acculturating Faculty-Driven Assessment” (with B. Carlson)

Presented at the WASC Academic Resource Conference, Burlingame, California [2018]

“The Overlooked Value of Failure: Why We Need to Teach Students to Make Mistakes”

Presented at the IAFOR International Conference on Education, Honolulu, Hawaii [2018]

“Human Being and Becoming: Literary Depictions of the Techno-Posthuman”

Presented at the Pacific Ancient & Modern Language Association Conference, Honolulu, Hawaii [2017]

“Andrological Design Thinking: A Transition to Anarchy in and Beyond the Classroom” (with J. Hargis)

Published in *Transformative Dialogues* [2017]

“Design Thinking in the Classroom: A Case Study”

Presented at the Hawaii International Conference on Education [2017]

“Backward Course Redesign: Active Learning Strategies”

Presenter/Panelist at the Hawaii International Conference on Education [2016]

“The Aesthetics of Living in Space”

Interview for *Voices from L5* Podcast [2016]

“Changing Perceptions of Space”

Presented at the 45th International Conference on Environmental Systems (sponsored by the American Institute for Aeronautics and Astronautics), Bellevue, Washington [2015]

“Beyond Habitation: Design Strategies for Long-Term Adaptation in Space”

Published in the *Journal of Astrosociology* [2015]

“Human Migration to Space: Alternative Technological Approaches for Long-Term Adaptation to Extraterrestrial Environments” ISBN: 3319059297

Monograph published in Springer Outstanding PhD Research series (Space Studies) [2014]

“Human Habitation in Space: Alternative Technological Approaches for Long-Term Adaptation to Extraterrestrial Environments and the Impact on Evolution”

Doctoral Dissertation, University of Hawaii at Manoa [2013]

“Design Implications of Human Migration to Mars: A Human Factors Perspective”

Presented at the Engineers & Architects of Hawaii (EAH), Honolulu, Hawaii [2013]

“Space Architecture: Considerations for Human Behavior and Well-Being”

Presented at the ISU Summer Session, NASA Ames Research Center [2009]

“Human Adaptation to Space Environments and the Role of Technology”

Published on the NASA-UH Astrobiology Institute website [2008]

“Redefining our Relationship to the Built Environment: A Biomimetic Approach to Architectural Design”

Presented at the University of Hawaii School of Architecture, Honolulu, Hawaii [2008]

“How Human Perception Informs the Design of Human Habitats in Space”

Presented at the University of Hilo Department of Astronomy & Astrophysics, Hilo, Hawaii [2008]

“The Relationship between Behavior and Environment in Designing Habitats for Space”

Presented at the ISU Summer Session, Beijing, China [2007]

“Symbiocracy: The Structuring of New Societies in Space Based on Principles of Mutualism and Symbiosis”

Presented at the Space 2007 AIAA Conference, San Diego, CA [2007]

“Technology and the Future of Architecture: New Paradigms for Earth and Space Habitats”

Presented at the Hawaii Research Center for Futures Studies, Honolulu, Hawaii [2007]

“Habitation in Space: The Relationship between Aesthetics and Dwelling”

Presented at the Space 2006 AIAA Conference, San Jose, CA [2006]

“Design Considerations for Long-Term Habitation in Space: The Role of Aesthetics and Human Cognition”

Presented at the International Space University (ISU), Strasbourg, France [2005]

[Research Grant Applications]

ASID (American Society of Interior Designers) Transform Research Grant [2021]

How Diversity, Equity, and Inclusivity Can be Supported through Interior Design (with SHADE Institute)

NEH (National Endowment for the Humanities) [2021]

National Traveling Symposium on Habitability of Environments (with B. Oichermann, UMin)

ASID (American Society of Interior Designers) Research Grant: Adaptive Environments Designed for Change/ Human Resilience [2020]

Recreating the Experience of the Outdoors through Immersive Simulations to Cope with Isolation & Confinement (with A. Kaufman, UHawaii)

ASID (American Society of Interior Designers) Research Grant: Design for Mindfulness [2019]

Augmenting the Classroom Environment using Multi-Sensory Simulations to Reduce Stress on College Campuses (with D. Iwamoto)

NASA HERO (Human Exploration Research Opportunities): Omnibus Grant [2018]

Using CIVI (Collaborative & Interactive Virtual Interfaces) as a Countermeasure to Psychosocial Stress in Long-Duration Missions (with A. Kaufman, K. Binsted, M. Dohm, M. Speck) – finalist

NASA HERO (Human Exploration Research Opportunities): Translational Research Institute Grant [2016]

Enhancing Crew Psychosocial Well-Being in Isolated and Confined Environments Through the Use of Multi-Sensory Virtual Interfaces (MSVI)

NASA HERO: National Space Biomedical Research Institute Grant [2015]

The Development of Multi-Sensory Virtual Interfaces for the HI-SEAS Mars Habitat Simulations

NASA HERO: National Space Biomedical Research Institute Grant [2014]

The Development & Integration of Multi-Sensory Virtual Interfaces for Mars Habitat Simulations

[Professional Service]

Journal on Sustainability | Manuscript Reviewer

Space Architect | Manuscript Reviewer | Awards Reviewer

AIAA/ICES (International Conference on Environmental Systems) | Abstract Reviewer

SHADE Institute | Secretary; Strategic Planning Committee