

CHRISTINA CIARDULLO AIA

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I am an experienced interdisciplinary Architect working at the intersection of the natural sciences and the built environment, designing for a sustainable future on Earth and in Space.

EDUCATION

Yale University // Center for Ecosystems in Architecture //
New Haven, CT // 2016 - current
Doctor of Philosophy (in Progress) // Built Ecologies

Columbia University Graduate School of Architecture Planning and Preservation //
New York, NY // 2007-2010
Masters of Architecture

Columbia University // New York, NY // 2002-2006
Bachelor of Arts // Philosophy, Astronomy

PROFESSIONAL EXPERIENCE

LAVA Laboratory for Visionary Architecture // Senior Architect // Berlin, Germany //
2017-present
Architectural Design Concept and Documentation, Project Management, Consultant
Coordination. Lead BIM Designer.
Concept, Competition, Documentation, Phases 1-5. Large Institutional and Infrastructural Projects

SEArch+ LLC // Co-Founder, Partner, Senior Architect // New York, NY // 2015-present
Architectural Design Concept and Documentation, Project Management, Consultant
Coordination. Lead BIM Designer.
Research Collaborative working on technological and scientific integrations for architecture in extreme environments. Winners NASA Centennial Challenge 2015, 2019. Collaborations with NASA Langley Research Center and NASA Johnson Space Center.

Foster+Partners // Architectural Designer // New York, NY // 2015
Architectural Designer. Concept, Schematic Design. Residential and Research projects.

Specialist Modeling Group // Designer, Project Leader

Ennead Architects // Architectural Designer // New York, NY // 2011-2014
Architectural Designer. Concept, Schematic, Design Development, Construction Documents, Construction Administration. Projects include institutional, academic, and cultural buildings and masterplanning

Ennead Lab // Project Leader // Design Research and Development

CO Design // Co-Founder and Designer // New York, NY // 2010-2012
Material research and small scale installations.

NASA Johnson Space Center // Habitability Design Center // Intern Architect //
Houston, TX // Summer 2010
Design Research and testing for lunar habitat architecture.

NYC Department of City Planning // Urban Design Studio // Intern Architect //
New York, NY // 2009-2010
Code research and development for a resilient and sustainable NYC.

TEACHING & RESEARCH EXPERIENCE

Carnegie Mellon University School of Architecture // Ann Kalla Fellow // Assistant
Professor // 2015-2016
Advanced Architecture Studio and Interdisciplinary Seminar. Focus on closed loop habitats and architecture for space through interdisciplinary design education between scientists, engineers, and architects.

Columbia University // Assistant Adjunct Professor, Assistant Adjunct Research Scholar
// New York, NY // 2010-2014
Advanced ArchStudio. Focus on information architecture and design for space.

Columbia University // Teaching Assistant // Intro to Architecture, Studio IV, Building
Technologies // New York, NY // 2008-2010

Visiting Critic: Pratt Institute, Parsons, City College of New York,), CIEE Berlin, SciArc
Los Angeles, Berlin Institute of Technology (TU Berlin)

CERTIFICATIONS

Licensed Architect (RA),
State of New York

LEED AP BD+C (2012)

AWARDS

Buckminster Fuller Fellowship //
Buckminster Fuller Institute // 2016

Ann Kalla Teaching Fellowship //
Carnegie Mellon University //
2015-2016

Honor Award for Excellence in
Overall Design // Columbia
University // 2010

William Kinne Fellowship //
Columbia University // 2010

Lowenfish Memorial Prize //
Columbia University // 2010

GRANTS

NASA // PA Space Grant
Consortium // 2016

Frank Ratchye STUDIO for
Creative Inquiry // Carnegie
Mellon University // 2016

ProSEED Crosswalk Grant for
Interdisciplinary Research //
Carnegie Mellon University // 2015

MAPS Grant// Middle Atlantic
Planetarium Society // 2015

TOOLS

BIM: Autodesk Revit

2D Drawing: Autodesk CAD,
Microstation

3D Modeling: 3Ds Max, Maya,
Rhinoceros (+ Grasshopper,
Ladybug, Honeybee)

Analysis: Climate Consultant

Adobe Suite (InDesign, Illustrator,
Photoshop, AfterEffects, Acrobat)

Office: Word, Excell, PowerPoint

Languages:

English Native

German A1

Italian B2, French B1

COMPETITION WINNING WORK*

German Pavilion for EXPO 2020 // LAVA // 2018

Winning Design for German Sustainability Pavilion

Mars X House // SEArch+ // 2018

NASA Centennial Challenge to 3D Print a Mars Habitat

1st Place / 100% Virtual Design

1st Place / Construction Level 2

1st Place / Construction Level 1

4th Place / 60 % Virtual Design

Best Closed Habitat Design // 2016

ESA Closed Habitats Forum

Mars Ice House // SEArch+CloudsAO // 2015

1st Place NASA Centennial Challenge to 3D Print a Mars Habitat

Architizer A+ Award: Architecture & 3D Printing

Mars Habitat // Foster+Partners // 2015

2nd Place NASA Centennial Challenge to 3D Print a Mars Habitat

Shanghai Planetarium // Ennead Architects // 2014

Invited architectural competition

FRED: Fostering Resilient Ecological Development //

Ennead Lab // 2013

Leading Innovation in Resilient Waterfront Development.

FARROC Competition

Weightless Pull // CO Design // 2012

1st Place SUPERFRONT Public Summer Installation

Pulled Reclamation // CO Design // 2011

Runner-Up FIGMENT Pavilion Competition

Calculated Pull // CO Design // 2010

Finalist Univ of Houston TEX FAB Repeat Competition in Digital Fabrication

LECTURES

Architecture of the Future: Space for Earth [Anticipated] //

Architecture of the Future Conference, Ukraine, 2019

Building Beyond: Interdisciplinary Perspectives on

Architecture in Space // International Aerospace Congress //

Bremen, Germany // 2018

Architecture with Space Applications // Technical University

Delft // The Netherlands // 2018

Vienna Biennale: Robots, Work, Our Future // Vienna MAK //

2017

Closed Worlds // Storefront for Art and Architecture and

Cooper Union, New York, NY // 2016

A Brief History of Time and Space Architecture // Carnegie

Mellon University, Allen H Rider Distinguished Lecture //

Pittsburgh, PA // 2015

SPECIAL PROJECTS

Space Architecture Symposium // Curator, Organizer //

Washington, DC // 2019 Anticipated

NASA Big Ideas Challenge // Lead Juror, Creator, // Hampton,

VA // 2019

Space Architecture Symposium // Curator, Organizer //

Bremen, Germany // 2018

Buckminster Fuller Challenge // Juror // 2017

Eleven Magazine: Planetarium Competition // Curator,

Creator, Organizer // 2017

Eleven Magazine: Mars Competition // Juror // 2017

Buckminster Fuller Challenge // Juror // 2016

Eleven Magazine: Moon Competition // Juror // 2016

PUBLICATIONS

"Mars X House: Design Principles for an Autonomously 3D Printed ISRU Surface Habitat" International Conference on Environmental Systems, 2019.

"Mars Ice Home Technical Risk Reduction for the Mars Ice Home Concept" International Aerospace Conference 2018 in collaboration with NASA Langley Research Center.

"Martian Ice Habitats: Additive Approaches to Additive Manufacturing in H2O Beyond Mars Ice House", AIAA Space Conference, 2016

"Mars Ice House: Using the Physics of Phase Change" International Conference on Environmental Systems, Vienna, 2016. *Awarded: Best Paper 2016 Space Architecture Technical Committee.*

WORK ON EXHIBIT

London Design Museum // Mars // London, UK // Opening 2019

SF MoMA // Far Out Suits, Habs, and Labs for Outer Space // San Francisco, CA // Opening 2019

Louisiana Museum of Modern Art // The Moon // Copenhagen, Denmark // 2018

V&A Museum of Design Dundee // Hello, Robot // Dundee, Scotland // Opening 2019

Gewerbemuseum Winterthur // Hello, Robot // Winterthur, CH // 2019

MATT // Hello, Robot // Lisbon, PT // 2018

Museo San Telmo // Hello, Robot // San Sebastian, SP// 2018

Vienna MAK // Hello, Robot // Vienna, AT // 2017

Vitra Design Museum //Hello, Robot // Basel, CH // 2017

Art Science Museum Singapore // The Universe // Singapore // 2016

Mori Art Museum // The Universe // Tokyo, Japan // 2016

Sink or Swim: Designing for Sea Change // Annenberg Space for Photography // Los Angeles, CA // 2014

FARROC: Coastal Resilience for New York // AIA Center for Architecture// New York, NY // 2013