

## CURRICULUM VITAE

# Karen Holmberg

Gallatin School, New York University. 1 Washington Place, Room 712. NY NY 10003

karenholmberg@nyu.edu 917-446-7138

[www.karenholmberg.com](http://www.karenholmberg.com)

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## EDUCATION

**Ph.D.** Anthropology (Volcanology/Archaeology focus), Columbia University, New York, NY. 2009

**M.Phil.** Anthropology (Volcanology/Archaeology focus), Columbia University, New York, NY. 2001

**M.A.** Anthropology (Volcanology/Archaeology focus), Columbia University. New York, NY. 1999

**B.A.** Distinction, Archaeology, University of Virginia, Charlottesville. 1995. *Phi Beta Kappa*, Lawn Resident

## PROFESSIONAL APPOINTMENTS

**New York University**, 2013-current

Clinical Assistant Professor & Scientific Director of the Gallatin WetLab (2024-current)

Research Scientist & Scientific Director of the Gallatin WetLab (2021-2023)

Visiting Assistant Professor of Environmental Science (2018-2021)

Visiting Scholar, Institute for Public Culture/Environmental Studies (2013-2018)

**The Cooper Union for the Advancement of Science and Art** Engineering Writing Fellow, 2021-current

**Stanford University**, Archaeology Center, Lecturer, 2011

**Brown University**, Joukowsky Institute, Post-doctoral Teaching Fellow, 2009-2010

**Museu Nacional da Universidade Federal do Rio de Janeiro**, Visiting Scholar, 2005-2006

**Smithsonian Tropical Research Institute**, Panamá, Fulbright Scholar, 2004-2005

## TEACHING EXPERIENCE

### New York University

- *Theater of the Earth*. Travel class in Pozzuoli, Italy (June 2024) on physics-based volcanological prediction and theater as community-engaged social practice. Co-taught with Kristin Horton.
- *NYC Coastlines: Past, Present, Future* (Spring 2019, Fall 2020, Fall 2021, Fall 2022, Fall 2023; a [Cool Course](#))
- *Anthropocene Narratives* (Fall 2018, Spring 2020, Spring 2021, Spring 2022)
- *Vomiting Lobsters, Cat Pianos, and Radical Interdisciplinarity: What a 17<sup>th</sup>-Century Polymath Has to Say to 21<sup>st</sup>-Century Science* (Spring 2021)
- *Volcanoes: The Sublime and the Scientific*, (Fall 2018, Fall 2019, Spring 2021, Spring 2022, Spring 2023)
- *Caves: The Science, Art, and Metaphor of the Subterranean Earth* (Fall 2019, Spring 2024)
- *WetLab* (Spring 2021 tutorial)
- *Radical Ecologies* (Fall 2020). Co-taught with Elaine Gan, Elizabeth Henaff, and Tega Brain
- *Biomaterials: Exploring Active and Passive Design* (Fall 2020)
- *Critical Zones Science* (Fall 2020 tutorial)
- *Pompeii, Vesuvius, and the Flaming Fields* (Spring 2019)

### Stanford University

- *Risky Environments* (Spring 2011)
- *Nature, Culture, Heritage* (Spring 2011)

### **Brown University**

- *Archaeology Under the Volcano [There's a Volcano in my Tummy]* (Spring 2010)
- *The Nature and Culture of Disaster* (Fall 2009)

### **Universidad Autónoma de Chiriquí (UNACHI), Panamá**

- *Visión Arqueológica de Boquete para el Turismo (Archaeology and Tourism)*; Summer 2005)

### **Lehman College (City University of New York)**

- *Ancient Peoples and Cultures* (Fall 2003)

### **Fordham University**

- *Introduction to Archaeology* (Spring 2003)

### **New York University**

- *The Rise of Civilization* (Summer 2002)

## **GRANTS AND AWARDS**

- 2022 NAACP Trailblazer award, Women's History Month, Mathews County, Virginia
- 2021 This is Not a Drill, Future Imagination Fund, Tisch School of the Arts, NYU
- 2020 Green Grant, Office of Sustainability (Urban Greening Lab), NYU
- 2020 Bennett-Polonsky Humanities-Lab grant (Radical Ecologies Lab), NYU
- 2019 Djerassi Scientific Delirium Madness art-science residency [*declined*]
- 2019 National Geographic Women in STEM award (SciencesPo, SPEAP program)
- 2018 Make Our Planet Great Again (Laboratoire de Géographie Physique, Panthéon-Sorbonne)
- 2018 National Geographic Research Grant, Principal Investigator (NGS-185C-18), Chaitén, Patagonia
- 2018 Creating Earth Futures Commission, Royal Holloway Geohumanities Centre/Leverhulme Trust
- 2011 Mellon Foundation LEAP II grant
- 2009 Joukowsky Institute Postdoctoral Teaching Fellowship, Brown University
- 2004 Wenner-Gren Foundation Individual Research Grant
- 2004 Fulbright IIE Fellowship (Panamá)
- 2000 SMART Seed Grant for interdisciplinary research, Columbia Earth Institute
- 1997 President's Fellowship, Columbia (4 years)
- 1997 Federal Employees Education and Assistance Fund
- 1994 NASA Langley Aerospace Research Summer Scholars (LARSS) Fellowship
- 1994 Arts and Sciences Research Grant, University of Virginia
- 1990 Orrel Fellowship for top history and writing ability in a Virginia public school
- 1990 Time Magazine Century III Leadership Scholarship

## **MANUSCRIPT IN PROGRESS:**

***Mephistopheles on Mauna Loa: The Volcano and Climate Change.*** This book examines the role of the volcano and volcanological data in the haunted landscapes and global connections of the Anthropocene. The prehistoric and modern western roles of the volcano in conceptions of climate and technology are used to query the role of the past in conceptions of geoengineering and the future.

## **PUBLICATIONS** Peer-Reviewed Articles

- [in prep.] **Holmberg, Karen** and Javiera Letelier. 'Managing coastal risk: Lessons from prehistory for the 21<sup>st</sup> Century.' *Frontiers in Ecology and Evolution* (Special Issue: 'Shaping the Future: Urban Resilience and Socio-Economic Systems through Time'). **Invited contribution.**
- 2023 Rummel, Dorothee, Simone Muller, **Karen Holmberg**, Benedict Boucsein, Avi Sharma, and Talitta Rietz. 2023. '[Variations on a Theme](#): Temporality, Cities and the Environment.' *Global Environment: A Journal of Transdisciplinary History* 16 (2.Special Issue: Irritations and Unforeseen Consequences of the Urban: Debating Natures, Politics, and Timescapes): 258-290 (for Holmberg see esp. pp 265-369).
- 2021 Fedele, Alessandro, Renato Somma, Claudia Troise, **Karen Holmberg**, Giuseppe De Natale and Fabio Matano. '[Time-lapse landform monitoring in Pisciarelli](#) (Campi Flegrei-Italy) fumarolic field by using UAV Photogrammetry.' *Remote Sensing* 13 (118): 1-20.
- 2020 De Natale, Giuseppe, Lorenzo De Natale, Claudia Troise, Vito Marchitelli, Antonio Coviello, **Karen Holmberg**, and Renato Somma. '[The evolution of COVID-19 in Italy](#) after the spring of 2020: an unpredicted summer respite followed by a second wave.' *International Journal of Environmental Research and Public Health* 17: 1-12.
- 2020 Riede, Felix, Gina Barnes, Ben Fitzhugh, Richard Vanderhoek, Mark Elson, James Zeidler, Gerald Oetelaar, **Karen Holmberg**, and Payson Sheets. '[Prospects and pitfalls in integrating volcanology and archaeology: a review](#).' *Journal of Volcanological and Geothermal Research* 401: 1-12.
- 2016 **Holmberg, Karen**. '[The cultural nature of tephra](#): 'Problematic' ecofacts and artifacts and the Barú volcano, Panama', *Quaternary International*, 394, 133-51.
- 2010 **Holmberg, Karen**. '[Placing immateriality](#): Situating the material of highland Chiriquí'. *Internet Archaeology* 28.

## **PUBLICATIONS** Peer-Reviewed Book Chapters

- 2025 **Holmberg, Karen**. *Encyclopedia of Volcanoes* (3rd edition) chapter on 'Methods from the Arts (including participatory art, storytelling, dance, poetry, music, television, documentaries, film & literature). Academic Press, anticipated publication in mid-2025. **Invited lead author.**
- 2024 Scarlett, Jazmin, Felix Riede, Miriam Rothenberg, and **Karen Holmberg**. "'Dark heritage': landscape, hazard and heritage." In *Routledge Handbook on Cultural Heritage and Disaster Risk Management*, edited by Rohit Jigyasu and Ksenia Chmutina. Routledge.
- 2023 **Holmberg, Karen**. '[Merapi and its dynamic "disaster culture"](#).' In *Merapi Volcano: Geology, Eruptive Activity, and Monitoring of a High-Risk Volcano*, edited by Ralf Gertisser, Valentin R. Troll, IGM Agung Nandaka and Antonius Ratdomopurbo. Berlin & Heidelberg: Springer-Verlag.
- 2022 **Holmberg, Karen**. 2022. "Nuevas consideraciones sobre la historia eruptiva y el impacto del Volcán Barú en tiempos prehispánicos." In *Mucho Más que un Puente Terrestre: Avances de la Arqueología en Panamá*, edited by Juan Martin-Rincon and Tomás Mendizábal. Smithsonian. [see [review in Latin American Antiquity](#) from Aug 2023].
- 2020 **Holmberg, Karen**. '[Landing on the Terrestrial volcano](#).' In *Critical Zones: The Science and Politics of Landing on Earth*, ed. by Bruno Latour and Peter Weibel. Cambridge, MA: MIT Press: 56-7.
- 2020 **Holmberg, Karen**. '[Risky business and the future of the past](#): Nuclear power in the Ring of Fire.' In *Going Forward by Looking Back: Archaeological Perspectives on Socio-Ecological Crisis, Response, and Collapse*, edited by Felix Riede and Payson Sheets. New York and Oxford: Berghahn Books.
- 2013 **Holmberg, Karen**. '[An inheritance of loss](#): archaeology's imagination of disaster,' in *Humans and*

- the Environment: New Archaeological Perspectives for the 21st Century*. Edited by M. Davis and F. Nkirote. Oxford, UK: Oxford University Press: 197-209.
- 2013 **Holmberg, Karen**. '[The sound of sulfur and smell of lightning](#): sensing the volcano,' in *Making Senses of the Past: Toward a Sensory Archaeology*, Center for Archaeological Investigations Occasional Paper No. 40. Edited by Jo Day. Carbondale: Southern Illinois University: 49-68.
- 2007 **Holmberg, Karen**. '[Beyond the catastrophe](#): The volcanic landscape of Barú, western Panamá,' in *Living Under the Shadow: Cultural Impacts of Volcanic Eruptions*, One World Archaeology Series. Edited by J. Grattan and R. Torrence. Walnut Creek, CA: Left Coast Press: 274-297.
- 2006 **Holmberg, Karen**, Travis Stanton, and Scott Hudson. '[Perceptions of landscapes](#) in uncertain times: Chunchucmil, Yucatán, Mexico and the Volcán Barú, Panamá,' in *Space and Spatial Analysis in Archaeology*. Edited by D. Fernandez. Calgary: University of Calgary Press: 15-27.
- 2005 **Holmberg, Karen**. '[The voices of stones](#): unthinkable materiality in the volcanic context of Western Panamá,' in *Archaeologies of Materiality*. Edited by L. Meskell. Oxford: Blackwell Publishing: 190-211.

#### **PUBLICATIONS** Book Reviews

- 2011 Review of *Indigenous Peoples and the Collaborative Stewardship of Nature: Knowledge Binds and Institutional Conflicts*, edited by A. Ross et al., 2011, *Anthropological Quarterly*, 84 (4), 1043-46.
- 2011 Review of *Volcano & Geothermal Tourism: Sustainable Geo-resources for Leisure and Recreation*, edited by P. Erfurt-Cooper and M. Cooper, London, Earthscan, 2010, *Journal of Heritage Tourism*, 6 (3), 259-60.
- 2010 Review of *Body and Image. Explorations in Landscape Phenomenology 2* by C. Tilley, 2008, *Cambridge Archaeological Journal*, 20 (2), 286-7.
- 2010 Review of *Archaeologies of Placemaking: Monuments, Memories, and Engagement in Native North America*, edited by P. Rubertone, 2008, *Journal of Anthropological Research*, 66, 300-01.

#### **PUBLICATIONS** Invited Opinions

- 2016 Listening to physical geology: Part 2: [The ecopoetics of data, a few lessons from Bjork](#). Savage Minds (now *Anthrodendum*). Jan 12.
- 2016 Listening to physical geology: Part 1: [Noise, disaster, and plastic thoughts](#). Savage Minds (now *Anthrodendum*). Jan 12.
- 2015 [Displaced Nature: Multispecies landscapes, mushrooms, and the megapolis](#). Savage Minds (now *Anthrodendum*). Dec 11.
- 2015 [Copses of corpses](#): Uneasy synecdoche and nonhuman suffering of climate change. *EnviroSociety*. 23 December. Invited response to the United Nations Climate Change Conference (COP21).
- 2015 [Plastic thoughts on disasters](#): the People's Climate March and the shores of Krakatau. *Anthropology News (American Anthropological Association)*. March 65 (3).

#### **Publications Citing My Research**

- 2023 Gwinn, Alison. '[Disaster Artist](#)'. Scope: Research at New York University (4):30-34.
- 2021 Corwin, Will. [Art Papers](#). 'Karen Holmberg: Archaeology in an Emergency', Part 2. Oct 6.
- 2021 Corwin, Will. [Art Papers](#). 'Karen Holmberg: Archeology in an Emergency', Part I. June 8.
- 2020 Kornei, Katherine. '[Ancient Rome was teetering](#). Then a volcano erupted 6,000 miles away.' *The New York Times*, June 22. [quoted in the article].

- 2018 Botkin-Kowacki, Eva, and Jason Armstrong. '[Life on a volcano](#): Hawaiians face Kilauea eruption with reverence.' Christian Science Monitor.
- 2016 'Obsidian in Chiriquí, Panamá. *Internat'l Association for Obsidian Studies (IAOS) Bulletin*, 54. 3-4.

## ART COLLABORATIONS

- 2021 Arts residency, with filmmaker Carlos Casas. Camargo Foundation, Cassis, France. July.
- 2020-2 'Double-sided Immersion.' Photogrammetry and VR art-science video immersion piece with Andres Burbano in the 'Critical Zones' exhibition curated by Bruno Latour and Peter Weibel. ZKM Gallery, Karlsruhe, Germany. May 23, 2020- Jan 9, 2022.
- 2020 'Double-sided Immersion.' essay for the Field Guide to accompany the Critical Zones: Observatories for Earthly Politics' exhibition curated by Bruno Latour and Peter Weibel. ZKM Gallery, Karlsruhe, Germany.
- 2020 'Topography-Time-Volcano: Online Immersion,' 360-degree video piece with audio design and voice over for the Virtual Opening and Streaming Festival of Critical Zones; Observatories for Earthly Politics' with Andres Burbano in an exhibition curated by Bruno Latour and Peter Weibel. ZKM Gallery, Karlsruhe, Germany (and live streamed internationally). May 22-24. ([link](#) and [link](#)).
- '2019 'Nuclear energy and global environmental crisis,' opening talk for the show by Hanae Utamura, *Lively in-between*. Aomori Contemporary Art Center, Japan. Dec 8.
- 2019 'Imaginary Explosions.' Collaborative episodic film with artist Caitlin Berrigan. Art in General, Brooklyn, NY. Sept 4-Nov 14. ([link](#) to review in *ArtForum*, Jan 2020)
- 2018 Robert Gober sculpture mold archive: an archaeological and engineering assessment for the preservation and material failure of the epoxy resin artifacts. Long Island City, NY. Feb 5 - Mar 15.
- 2017 Holmberg, Karen. 'The future of the environment: a meditation on imagery, lightning, and squid,' [We Need to Talk](#)... Artists and the Public Respond to the Present Conditions in America. Petzel Gallery and Hatje Cantz, Berlin.
- 2015 *Serendipity/Serendipia*. Exhibition book for the Estudio Nuboso Arte y Ciencia LAB. ([link](#))
- 2015 Estudio Nuboso, Lab de Arte y Ciencia. Invited facilitator. Panamá. October 19-24. ([link](#))
- 2015 'The Sidaorjo mud flow (LUSI): an Anthro-Obscene meditation.' Verbal Supply Company, An Audible Writers' Collective. 'The Spirit of Earth Day,' May 9.
- 2015 *Regeneratrix*. Collaboration with Keith Edmier. Research and creative collaboration. Petzel Gallery, 456 West 18<sup>th</sup> Street, New York. May.
- 2013 *Adonais*. Collaborative piece with Keith Edmier in the show 'Better Homes' curated by Ruba Katrib. SculptureCenter, Long Island City. April 22-July 22. ([link](#))
- 2013 *Penn Station Ciborium*. Show 'Empire State' curated by Sir Norman Rosenthal and Alex Gartenfeld. Conceptual and research collaboration, material sourcing with Keith Edmier. Palazzo delle Esposizioni, Rome. April 23-July 21. ([link](#))
- 2010-3 *Hand-held lava*. Commissioned performative event engaging scientific and artistic vantages on volcanoes with Glasgow-based artist Ilana Halperin and Edinburgh-based curator Andrew Patrizio. Funded by the Triple Canopy initiative, Brooklyn, NY. Oct 8. Re-performed at the Cell Project Space (London) on Dec 2, 2010, Centre for Contemporary Arts, Glasgow Dec 14, 2010. The Turner Contemporary (Margate, UK) on May 7, 2011. The Ernst Schering Foundation (Berlin) on March 12, 2012. ATLAS Arts, The Isle of Skye, Scotland on May 18, 2013. ([link](#))
- 2012 Roden Crater: allowed rare access to visit, photograph, and write about James Turrell's cinder cone work in progress. March 19-30.
- 2010 'Thoughts on a volcano,' with artwork by Ilana Halperin. *Watershed: Brown and RISD's Journal of*

- Environment and Culture*, 16-23.
- 2011 *Nuclear winter/Volcanic winter*, sculpture created in collaboration with artist Keith Edmier and displayed as part of NYC Fashion Week. Feb 12.
- 2011 Halperin, Ilana, Karen Holmberg, Andrew Patrizio. [Hand held lava](#). Triple Canopy.
- 2010 'Stop-Motion' gallery show invoking archaeology and volcanology, with artists Keith Edmier and Allan McCollum. Friedrich Petzel Gallery, 535 W. 22<sup>nd</sup> St, New York, NY. Provided conceptual collaboration for the piece *Adonaïs* (including casting of my heart in basalt) and essay for the show. Sept 9- Oct 23. ([link](#))
- 2009 *A Brief History of Mobile Landmass*. Essay from fieldwork in Montserrat, West Indies incorporated into an audio narrative by Ilana Halperin to explore the relationship of geological phenomena and daily life. Recorded at the Manchester Museum on Sept 4 and used as part of the Portscapes art series at Maasvlakte, Rotterdam.
- 2009 *The Third Rift*. Conceptual collaboration for a large sculpture invoking the Terceira Rift Zone of the Azores for display in Lisbon, Portugal. August.
- 2009 *Cycas apotropaica apotropaico*. Essay written to accompany an artwork by Keith Edmier in the Group show 'Slough,' curated by Steve DiBenedetto, at the David Nolan Gallery. 527 West 29<sup>th</sup> Street, New York. May 28-June 27.
- 2009 'An Infernal Dinner Party,' Essay displayed with artwork by Ilana Halperin for the show *Physical Geology (slow time)*, curated by Joseph del Pesco, Meredith Johnson, and Raimundas Malasauskas, at the Artist's Space. 38 Greene Street, New York, NY. April 9-June 6.
- 2008 'An Infernal Dinner Party,' commissioned preface to the book *Physical Geology/Alchemy* Project by artist Ilana Halperin. Manchester Museum, Manchester, UK.

## SELECTED ART-SCIENCE PROJECTS AND PUBLIC OUTREACH

- 2023 Harlem Sculpture Walk 2024 Selection Committee for outdoor installations partnering with the Sculptors Guild, West Harlem Art Fund, and NYC Parks Department for sculptures in Morning side Park, St. Nicholas Park, and Jackie Robinson Park.
- 2023 Community Panel Member for ArtBridge and ConEdison collaboration to select artwork to cover scaffolding for the ConEdison headquarters that addresses environmental stewardship. Sept 19.
- 2023 Commissioned and coordinated a WetLab dance intervention by Tisch student Salma Kiuhan for a sculpture by artist Miguel Otero Fuenties titled 'XOXO' on Governors Island. The installation was funded by the NY Equity Association and the West Harlem Art Fund. May 13.
- 2002-2 Co-director of the NY Virtual Volcano Observatory on Governors Island for the seasonal (May 1- Nov 1) programming utilizing innovative geoscience and art-science displays to better convey environmental science and its importance in understanding climate change.
- 2022 *feel rubble* exhibition. WetLab house, 403 Colonels Row. Governors Island. Sept 10-Oct 30. ([link](#))
- 2022 Moderator for a panel with photographer Sebastião Salgado in honor of his Infinity Awards: Lifetime Achievement Award from the International Center for Photography. April 24.
- 2021 *Contretemps*. exhibition. WetLab house, 403 Colonels Row. Governors Island. Sept- Nov 1. ([link](#))
- 2021 Artist-scientist presenter to the Greenpeace Schools for Earth event at the *Critical Zones* Exhibition. ZKM, Karlsruhe, Germany. July 15. ([link](#))
- 2021 *PHREATIC!* art-science exhibition, a pop-up in the NY Virtual Volcano Observatory. 11 Nolan Park, Governors Island, NYC. April-Nov. ([link](#))
- 2021 Inaugural welcome speech, Chaitén Site Museum. Patagonia, Chile. January 15.
- 2020-1 *After the Apocalypse*. Recorded commentary on volcanoes, extinction, and the Anthropocene for

- a screen in the exhibit for the Moesgaard Museum, Denmark. Sept 12, 2020-May 16, 2021.
- 2020 Volcano expert on Disney tv show, 'The Big Fib' to convey science and critical thinking. Season 1/Episode 4, 'Bees and Volcanoes' (premiered May 22).
- 2018 'The Vilcun Cave', art piece with Keith Edmier in the *Collapse: Climate, Cities, and Culture* exhibition by Global Design NYU. June 5-29.
- 2018 'The tree for Chatien,' invited contribution to the *Field Re-Mediations* project of *The Cybernetics Library*. The Queens Museum, New York. May 6.
- 2018 'Patagonian rock art, lunar mapping, the devil, and the Keeling Curve: A lecture about volcanoes and why it's not time to hide in a cave,' Taste of Science Festival, New York. April 22-8. ([link](#))
- 2017 Commentator for National Geographic Explorer television on lava-ice interactions in Antarctica and the broader context of volcanoes and climate change. Air date: June 13.
- 2015 Collaborator. Estudio Nuboso/Lab de Arte y Ciencia. Panamá. Oct 19-24.

### INVITED TALKS & CONFERENCE PARTICIPATION

- 2023 'The devil in the details: The role of volcanoes in debates about risk reduction, climate Change, and neocolonialist science.' Cities on Volcanoes 12 Conference. Antigua, Guatemala. Feb 11-17.
- 2023 'Fluid connections: the nexus of art and water.' Presentation to the Environmental Protection Agency Water Forum. New York. Dec 7.
- 2023 'Transdisciplinary, creative Earth science for the 21st-century and beyond.' Earth Science Program, KAUST (King Abdullah University of Science and Engineering), Thuwal, Kingdom of Saudi Arabia. Nov 22.
- 2023 'Monumental environmental changes in pre-Columbian Panamá: The striking example of the jumbo squid .' Monumentality in Southern Central America conference. University of Bonn, Germany. Nov 8-9.
- 2023 'Hunting for the point in the urban coastal environment.' The BIG WALK: Hunt's Point. Organized by Louise Harpman with NYU Gallatin; co-sponsored by the Urban Democracy Lab, openEARTHstudio, Gallatin WetLab, and Gallatin Design Collection. Oct 21.
- 2023 'Interdisciplinary approaches to climate and climate change.' Environmental Assessment Program/Sustainability Management Master's Program. School of Engineering and Science, Stevens Institute of Technology. Sept 14.
- 2023 'New methodologies at the intersection of art, science, and climate activism.' Environmental Humanities and Indigeneities in Latin America: Methodologies for Global and Local Research. Buenos Aires, Argentina. Aug 22-24
- 2023 'Large volcanic calderas and risk communication: the role of creativity and cultural heritage in geoscience.' International Workshop: Genesis and Dynamics of Large Calderas: Campi Flegrei and Campanian Plain. Naples, Italy. May 2-5
- 2023 'The deep history of NYC.' Part of the BIG WALK: Red Hook organized by Louise Harpman and NYU Gallatin; co-sponsored by openEARTHstudio, Gallatin Design Collection, Gallatin WetLab, and Urban Democracy Lab. April 1.
- 2022 'The Nature of contemporary catastrophes and the culture of volcanoes.' Krisis & Katastrophe workshop. Universitat Pompeu Fabra, Barcelona, Spain. Oct 6-7.
- 2022 'The biographical arc of one NASA aerospace engineer as a mirror of the transforming US perception of the Earth in the 20th century.' The History of NASA and the Environment Symposium, Georgetown University. Sept 29-30.

- 2022 'Valoración y apropiación de patrimonio inmaterial e identidad en territorios de desastre.' Seminario Provincial. Chaiten Museum, Chile. Sept 27.
- 2022 Moderator of the panel 'Bodies, Labor, Abjection, and Intimacy' in the Discard Studies Conference: Exploring Disposal's Past, Present, and Future. Sept 16.
- 2022 'The Little Frog that Couldn't (and other stories of control/loss-of-control over Earth Processes,' Goldschmidt international geochemistry conference, Honolulu, Hawaii. July 10-15.
- 2022 'Toxicity, tensions, and creative communication of coastal risks,' Augsburg, Germany. Opening conference of the International Doctorate Program of the University of Augsburg and the Rachel Carson Center: Ambivalences of Ecological Transformation. June 24-26.
- 2022 'The past, present, and future(?) disaster site: The new Chaitén museum.' Cities on Volcanoes international scientific conference. Heraklion, Crete, June 12-17.
- 2022 'What do prehistoric sites of managed retreat look like? Querying the archaeology, volcanology, and geoheritage of Chaitén, Chile,' Cities on Volcanoes international scientific conference, Heraklion, Crete. June 12-17.
- 2022 Book discussion and launch talk for *Mucho Más que un Puente Terrestre*, Smithsonian Tropical Research Institute, Panamá. Feb 17.
- 2021 'But is it art? The importance of tephra in Chaiten, Chile in understanding the long-term experience of the lived human landscape.' Geological Society of America conference. Portland, Oregon. October 10-13.
- 2021 'The NY Virtual Volcano Observatory and the Gallatin WetLab.' Part of the BIG WALK: Governors Island. Organized by Louise Harpman and NYU Gallatin; co-sponsored by openEARTHstudio, Gallatin Design Collection, Gallatin WetLab, and Urban Democracy Lab. Sept 18.
- 2021 'Unexpectedly anthropogenic and 'natural' ecosystems in urban contexts: NYC oysters and Abu Dhabi mangroves,with Carrie Roble (Hudson River Park) and Mary Killilea (NYU Biology). Goldschmidt Conference, Lyon, France. July 4-9.
- 2021 'One and Six Times,' Urban Environments Initiative; panel member: Irritations and Unforeseen Consequences of the Urban. July 2.
- 2021 'Imaging and imagining disastrous landscapes,' UCL Institute of Risk & Disaster Reduction, Science and Technology Studies, Warning Research Centre invited launch panelist. June 30.
- 2021 'Unexpectedly anthropogenic and "natural" ecosystems in urban contexts: New York City oysters and Abu Dhabi mangroves.' European Association of Geochemistry Goldschmidt session: Geochemical and statistical techniques for characterizing and/or discriminating between anthropogenic contamination and natural processes. Lyon, France. July 4-9
- 2021 'One and Six Times,' a panel presentation in the Urban Environments Initiative, 'Irritations and Unforeseen Consequences of the Urban', Rachel Carson Center, Berlin/Munich/NYC. July 2.
- 2021 'Oysters as megacity bioindicators: The test case of Pier 32 and the Hudson River.' International Association of Maritime Economists (IAME) 'Accelerating Transitions' conference. Rotterdam, Netherlands. June 29-July 2.
- 2021 'A phenomenology of iceberg collisions,' invited guest speaker for art-science talk by Saadia Mirza, University of Chicago Environmental Studies Workshop. Feb 5.
- 2021 'Thinking the Urban' workshop. Rachel Carson Center, Munich. Jan 22.
- 2021 Inaugural speech for the opening of the Chaitén Museum, Chile. Jan 15.
- 2020 'Human intersections with radically transformative landscapes: The volcano as emblem of both the primordial and the Anthropocenic in the strange era of COVID.' Research Seminar Series. School of Natural and Built Environment, Queen's University Belfast, Ireland. Nov 24.
- 2020 'Flaming Fields, Coastal Transformation,' Urban Environments Initiative of the Rachel Carson



- Center. Munich, Germany. June 26.
- 2020 'Of Volcanoes and Immersive Technology', artist talk with Andres Burbano for *Terrestrial University*, ZKM Center for Art and Media, Karlsruhe, Germany. June 18. ([link](#))
- 2020 'The volcano and the Terrestrial', lecture and discussion with Bruno Latour for Critical Zones; Observatories for Earthly Politics. ZKM Gallery, Karlsruhe, Germany (and live streamed internationally; start at 2:08 in the YouTube link). May 23. ([link](#))
- 2020 'Inside the Anthropocene Volcano,' Earth and Environmental Science (EES) colloquium, City University of New York. Feb 20.
- 2019 'Nuclear energy and global environmental crisis,' part of the show by Hanae Utamura, 'Lively in-between.' Aomori Contemporary Art Center, Japan. Dec 8.
- 2019 'Urban Coastlines + Radical Change.' Urban Environments workshop. Rachel Carson Center, Munich, Germany. Oct 9-12.
- 2019 'Responding to unexpected volcanic events.' Volcanic Ash in the Earth System: Generation, Dispersal, Consequences workshop. Center for Advanced Studies, Ludwig-Maximilians University. May 9-10.
- 2019 'Glacial erratics.' part of the BIG WALK: Long Island City organized by Louise Harpman and NYU Gallatin; co-sponsored by the Urban Democracy Lab. Sept 19.
- 2019 Full-day workshop on my interdisciplinary work for the theme 'Inhabitable Earth.' Sciences Po SPEAP Program, Paris, France. March 21.
- 2018 'The Vilcun caves of Patagonia: prehistoric rock art, environmental change, and contemporary resilience in the volcanic context.' Universite de Paris 1 Pantheon-Sorbonne, Laboratoire de Géographie Physique, Meudon, France. Dec 19.
- 2018 'Prelude to a disaster.' Presentation for the Artists Alliance Anti-Professional Development Workshop. Nov 29.
- 2018 'Risky business and the public future of the past: volcanic environments, energy production, and carbon democracy.' Catastrophes in Context: An Archaeological Perspective. Aarhus, Denmark. Oct 10-12.
- 2018 'The Future of the Environment: An Archaeological Meditation on Imagery.' *Being in Two Places at Once: Art, Apparatus, and the Geopolitics of Spatial Representation* colloquium. NYU Tisch School of the Arts. March 20.
- 2018 'The Volcano: an object of charisma and pleasure in an age of environmental anxiety (and where that leaves scientists)' at the Volcanic Impacts on Climate and Society (VICS) meeting. Tucson, Arizona. Jan 12-14. **Keynote Speaker.** ([link](#))
- 2017 Presenter and moderator of Music X Science in partnership with the March for Science through the A/P/A Climate Working Group. Dupont Underground, Washington DC. April 22.
- 2017 'Imaging and imagining multispecies Earth vs a multi-planet species,' a moderated discussion with Gavin Schmidt (NASA-GISS). Alchemist's Kitchen, New York. February 25.
- 2017 'The future of the environment: an archaeological meditation on imagination.' Petzel Gallery, New York. Feb 4.
- 2016 'Urban landscapes: subversive natures' (on site at the Westbeth Center for the Arts and through the streets of New York) for the Urban Greening Lab. Oct 20.
- 2016 'Creative sympathy and climate change, from Frankenstein to Cthulhu,' part of the panel 'A Year Without Summer.' Rauschenberg Art Gallery, Ft. Myers, Florida. Oct 8.
- 2016 'The Collect Pond: nature that refuses to die,' part of the BIG WALK organized by Louise Harpman and NYU Gallatin; co-sponsored by the Gallatin Design Collective and the Urban Democracy Lab.

- 2016 'The design of a volcano: a less civilized archaeology' PechaKucha talk. ENVISION: Nature and Design, hosted by Global Design at NYU Gallatin. Feb 5.
- 2015 'Serendipity in art and science,' Estudio Nuboso/Lab de Arte y Ciencia (an arts-sciences collaboration). Invited facilitator. Panamá. October 19-24, 2015.
- 2015 'The Sidaorjo mud flow (LUSI): an Anthro-obscene meditation,' Verbal Supply Company, An Audible Writers' Collective. May 9.
- 2014 'Perceptions of nature and disaster: Frankenstein, Fukushima, and the archaeology of the future.' New York University, Environmental Studies, Faculty Presentation. Oct 30.
- 2014 'The Science of Environment & Climate Change, an interdisciplinary panel' (invited participant). Ligo Project: connecting science and art. Open Source Gallery, Brooklyn, NY. Sept 28.
- 2013 'Doing archaeology in the Anthropocene.' Invited lecture to the Interpretations of Culture class, Columbia University. March 13.
- 2011 'Frankenstein in Chernobyl: The present imperfect of climate change.' Invited lecture for the Social Ecology colloquium, Stanford University. Feb 4.
- 2011 'Diseased nature often breaks forth: risk and radical reversals.' Invited colloquium seminar for Methods of Analysis in the Social Sciences Program, Stanford University. Jan 14.
- 2010 'Excavating the idea of Pompeii.' Invited public lecture to accompany the art exhibition 'Volcano' curated by James Hamilton and exhibited July 24-October 31. Compton Verney, Warwickshire, UK. Oct 2.
- 2010 'Cryptic tephra and invented volcanoes: the archaeology of a volcano in western Panamá.' University of Rhode Island Graduate School of Oceanography. April 22.
- 2004 'Proyecto Volcán Barú: prehistoric landscapes and volcanism in western Panamá.' Fulbright Enhancement Seminar for Central American scholars, Panama City. June 7-11.

## **EVENT AND SYMPOSIUM ORGANIZATION**

- 2023 Convenor, annual VolcaNYC conference of NYC-area volcanologists. NYU. Jan 13.
- 2022 Co-convenor, 'Interdisciplinary reconstructions of the impact of past volcanic eruptions on climate and society' session; with colleagues from University of Cambridge and Aarhus University. Cities on Volcanoes 11 conference. Heraklion, Greece. June 12-17.
- 2022 Co-convenor, 'How the arts and humanities can improve warnings of eruptions: innovation in engaging communities at risk' session; with University College London. Cities on Volcanoes 11 conference. Heraklion, Greece. June 12-17.
- 2018 Session Chair, Critical Disaster Studies conference. New York University. Sept 21.
- 2018 Co-convenor of the symposium, 'Gateways to different perceptions and engagements of volcanoes: the role of art/science collaborations' at the Cities on Volcanoes 10 conference. Naples, Italy. Sept 2-7.
- 2018 Co-convenor 'Eruption forecasts and warnings at long-quiescent volcanoes: what do the public believe?' with associated one-day post-conference workshop, Sept 8 at the Cities on Volcanoes 10 conference. Naples, Italy. Sept 2-7.
- 2018 Convenor. 'Decolonizing the Anthropocene' symposium, NYU. Oct 19.
- 2017 Co-Convenor. Science & Climate Change: A Series of Events in Celebration of the Marches (March for Science & People's Climate March). April 20-29. Dupont Underground, Washington, D.C.
- 2016 Convenor. Documentary screening of 'The Anthropologist' (2015) and discussion with Susie Crate in Mathews County, Virginia. March 18.
- 2015 Convenor. Theoretical Archaeology Group, 'Archaeology of the Future' session. May 22-24. NYU.

2009 Convenor. Terra Mobilis: Fire and Ice; a transdisciplinary conference about changing climates as exemplified by volcanoes and glaciers. Dec 4-6. Brown University.

## INTERNATIONAL CONSORTIUM/WORKING GROUP AFFILIATIONS

**UNESCO Inclusive Policy Lab**; invited member of the United Nations Educational, Scientific and Cultural Organization. 2023-current.

**Volcanic Impacts on Climate and Society (VICS)**; interdisciplinary working group of the PAGES (Past Global Changes) initiative and part of the Future Earth global sustainability science program. VICS provides data to the PAGES 2k Network and the ICSU-World Data System (WDS) archive. Contributor to the IPCC Sixth Assessment Report. 2018-current.

**Urban Environments Initiative (UEI)**; international collaboration of Ludwig-Maximilians (LMU), Technische Universität München (TUM), University of Cambridge, and NYU supported by the Rachel Carson Center. 2019-current.

**Warnings and Alerts during Volcanic Emergencies: Scientific Practice Informed by Community Experience (WAVE: SPICE)**; consortium of University College London Hazard Centre, Vesuvius Observatory, and RADA to provide physics-based models of eruption precursors and provide public warnings through bottom-up understanding of audience perceptions. 2018-current.

**Volcanoes, Climate and History (VCH)**; Cooperation Group at the Center for Interdisciplinary Research (ZIF) in Bielefeld, Germany. 2018-2020.

## PROFESSIONAL AFFILIATIONS

**Board Member**, Chaitén Museum; Chaitén, Chile. Grant funding secured to build and support the museum includes the Programa de Infraestructura Cultural Pública y/o privada 2017, ministerio de la cultura (180 million Chilean pesos), Fondo de Mejoramiento Integral de museos (2020; 40 million Chilean pesos), Fondo del Patrimonio (2021; 15 million Chilean pesos).

**Board Member & Editor**, *able* multidisciplinary journal of art, design, and science; Paris, France

**Professional Advisory Committee**, Harbor School Marine Biology Research; New York, NY.

**Technical Advisory Committee**, Hudson River Park River Project; New York, NY.

**Technical Advisory Committee, science expert**, Gansevoort Research Program, NOAA-funded four-year research and community science program; New York, NY.

**Editorial Board Science Mentor**, *Frontiers for Young Minds*, *Earth Sciences* journal

## NYU INSTITUTIONAL SERVICE

**NYU Accreditation Steering Committee: Impact Working Group**. Addressing complex universal challenges and urgent social problems for the Middle States Commission on Higher Education self-study and review of New York University. *Focus: climate crises and sustainability*.

**NYU Office of Sustainability Advisory Group**. To aid in the advancement of sustainability across NYU; composed of students, faculty, and administrators from major operational units and the University Senate.

## NYU Arts Activism

**OpenEARTHstudio** ([link](#)). A collaborative group of scholars, artists, and activists dedicated to using our practices to address the climate crisis.

2023 openEARTHstudio and the Gallatin WetLab joined with organizations such as Green Leadership Trust and Corporate Accountability to co-sponsor the NY premier and Climate Week screening of a film by a young Navajo filmmaker, Ivey Camille Manybeads Tso, called [Powerlands](#) (2022). The film investigates environmental displacement of indigenous peoples. The film is in seven languages, including several Indigenous languages rarely captured on film: English, Diné, Spanish, Wayuu, Visayan, Blaan, and Zapotec. Sept 19 screening event at Firehouse Cinema.

2023 [GLOAM](#). Original poetry, choreography, and music by students and alumni filmed in Central Park, NYC to highlight the climate crisis for Climate Week. Commissioned and produced by openEARTHstudio. Directed by Keith Miller.

2022 [Plastic, Eternal](#). Screenplay, choreography, and music composition by students, alumni, and faculty to highlight plastic waste for Climate Week. Shot on location at the SIMS recycling plant. Directed by Keith Miller. Narrated by Michael Dinwiddie.

2021 [Earth, Here](#). Choreography, poetry, and music composition by students and alumni to highlight climate change and sea-level rise for Climate Week. Shot on location in Red Hook. Directed by Keith Miller.

## PROFESSIONAL SERVICE

**Journal Review:** *Advances in Volcanology, American Anthropologist, Andean Geology, Anthropological Quarterly, Archaeological Dialogues, Cambridge Archaeological Journal, Canto Rodado, Heliyon, Human Organization, Journal of Anthropological Research, Journal of Applied Volcanology, Journal of Heritage Tourism, Journal of Social Archaeology, Journal of Volcanology and Geothermal Research, Quaternary International, Quaternary Science Reviews, Leonardo, World Archaeology, Volcanica, Water*

### **Grant Review:**

National Science Foundation; The Royal Society

### **Book Manuscript Review:**

Aarhus University Press; University Press of Colorado

### **Harbor School Marine Science Symposium:**

Scientific judge and advisory panel (annually since 2019)

### **Journal Editorial Board & Review Editor:**

**.able Journal** - an image-based journal at the intersection of art, design, and sciences

*Forthcoming* Hudson River Fish data. In conjunction with the Hudson River Park River Project and Dr. Yong Chen of SUNY Stony Brook University. [Soliciting Editor]

2023 Holmberg, Karen, Andres Burbano, Constanza Gomez, Javiera Letelier, Amy Donovan, Julie Morin, Rory Walshe, Thierry Dupradou, Pierre Puentes. '[Chaitén: Land of Volcanoes.](#)' March. [Soliciting Editor and contributor].

***Frontiers: Earth and its Resources*** - Science Mentor ([link](#))

*Forthcoming* Rangel-Buitrago, Nelson William Neal, and Kathleen Nicholl. Unraveling the mystery of Earth's newest time period [Accepted Nov 7]

*Forthcoming* Brocca, Luca. Playing the Water Cycle "Game": Data from Space for a Safer Planet. *Front. Young Minds*. [Accepted Oct 6, 2023]

*Forthcoming* Closset, Ivya, Kristin Doering, and Bianca Liguori. Diatoms Like it Light! How Diatom "Eating" Habits Help Us Understand the Oceans in the Past. *Front. Young Minds*. [Accepted August 5, 2023]

2023 Leonie Esters, Pilar Wirtz, Sylvia Brückner, Yidan Li, Magdalena Kracheletz (2023). What is albedo and what does it have to do with global warming? . *Front. Young Minds* **11**:1113553. doi: 10.3389/frym.2023.1113553 [link](#). Published online: Nov 7.

2023 Trumbull R and Codeço M (2023) How Do Ore Deposits Form?. *Front. Young Minds*. 11:1237650. doi: 10.3389/frym.2023.1237650 [link](#). Published online: Nov 2.

2023 Foppert A and Spence P. Around and Around, Up and Down: Motion in the Southern Ocean. *Front. Young Minds*. 11:1054758. doi: 10.3389/frym.2023.1054758 [link](#). Published online: Aug 22.

2023 Jack Yang, Emma Hinderink. Interfaces: invisible, yet all around us . *Front. Young Minds* 11:969789. doi: 10.3389/frym.2023.969789 [link](#) . Published online: May 12.

2023 Rosanna van Hespen, Celine E.J. van Bijsterveldt, Carolina M.L. Camargo, Marte M. Stoorvogel, Tjeerd J. Bouma. How can nature protect people against sea-level rise? . *Front. Young Minds* 11:910803. doi: 10.3389/frym.2023.910803 [link](#) Published online: Feb 9.

## **LANGUAGES**

Spanish (conversational and research capability); Portuguese (conversational and research capability); French (research capability); German (research capability)

## **PROFESSIONAL MEMBERSHIPS**

American Anthropological Association, American Geophysical Union, European Geosciences Union, Geochemical Society, Geological Society of America, History of Science Society, International Association of Volcanology and Chemistry of the Earth's Interior, Register of Professional Archaeologists, Society for American Archaeology, Society for Historical Archaeology