

## Dr. Esmee Geerken

Artist, Independent Researcher & Earth Scientist

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## Education

Ph.D. (2019)	Department of Ocean Systems, NIOZ / Department of Earth Sciences, Utrecht University
M.Sc. (2014)	Applied Environmental Geosciences <i>Cum Laude</i> VU University Amsterdam
B.Sc. (2012)	Bèta-Gamma - Earth Sciences University of Amsterdam
B.A. (2010)	Audio-Visual Art (VAV) Gerrit Rietveld Academy Amsterdam
Gymnasium (2003)	Profile Nature & Technology Van Maerlant Lyceum, Eindhoven

## Selected Art Works, Workshops and Lectures

2022	<i>Urban Ecology: Building as Being</i> presentations ‘designs for meanwhile spaces’ with Waag & Students of the Rotterdam Academy of Architecture
2022	<i>Narrating Just Sustainability in the City</i> , workshop & Instructions for performative actions, KNAW Anthropocene call, in collaboration with scientists Paul Behrens, Bergit Arends & Tom Idema
2021	Fault Lines Symposium, KABK design lectorate, in conversation with artist Vibeke Mascini
2021	Performative lecture <i>Blobs of Order</i> at the Science of Consciousness conference, Sentience and Science foundation & UvA-IAS

- 2021 *Build like a beast* Kids Workshop with Waag at Amsterdam Science Park
- 2021 *How to fieldnote?* Workshop with Waag at Amsterdam Science Park
- 2021 Performative lecture *Build like a shell* at festival WhyNot *The Body & the Landscape* at Tolhuistuin, Amsterdam
- 2021 Performative lecture *Build like a shell, Being in the world* at UvA Artistic Research Research Group lecture series. UvA, Amsterdam
- 2021 Kick-off lecture *Build like a shell, Being in the world* at UvA Institute for Advanced Studies, Online presentation.
- 2021 Building as Being: The City, The Mind, Matter. Online symposium series organized together with Waag, Amsterdam.
- 2020 Chalk Talk *Build like a shell*. Performative lecture and installation at WarmingUp Festival, Tolhuistuin Amsterdam, hosted by De Onkruidenier.
- 2020 Performative (online) lecture at Ars Electronica 2020: *in Keplers Gardens*, expedition to Planet B, organised by Waag society, Amsterdam.
- 2020 *Digitaal koraal*. Contributions to the instagram account *Digitaal koraal*, created by De Onkruidenier for *Oerol: the Imaginary Island*.
- 2020 *Reversal*. Jonny Nash & Esmee Geerken. Sound-piece for Freq\_Wave, a sound project commissioned by TBA21-academy and curated by Carl Michael von Hausswolff.
- 2020 *On Micro- and Macroscopic houses*. Performance-lecture at contemporary dance & art festival WhyNot, site-specific for W139, Amsterdam
- 2019 *Foraminerals*. Art & Science symposium on biomineralization organized at De Ruimte, with artist & scientist talks, and a Shamanistic ritual to invite the spirit of the mineral, Amsterdam
- 2019 *Inducing sweetness, Inducing pain*. BAU-lab & Waag BioArt meets Performance presentation at Waag, Amsterdam
- 2019 *On Micro- and Macroscopic houses*. Performance-lecture at *DitDitDaDaDitDit*, site-specific for de Ruimte, Amsterdam
- 2018 *Het Kleinste Huis*. Educational movie, premiered at cinema *Het Ketelhuis*, Amsterdam. Direction and production in collaboration with Cirkel Studio
- 2017 Participant *Parliament of Things / Embassy of the North Sea*, Den Hague
- 2017 *On non-human time scales and it's tiny story-tellers*. Talk at ZOOOF symposium, Sexyland, Amsterdam and essay for ZOOOF-glossy (Thijs de Zeeuw and David Habets).
- 2013 *Seeds of destruction*. Performance of *Duo Feigenbaum* at *De patafysische Salon*, Huize Frankendael, Museumnacht Amsterdam
- 2012 *Trajectories II*. Performance at FLAM II, *Arti et Amicitiae*, Amsterdam

- 2012 *This must be the place.* Duo Exhibition with Lot Meijers at Casa Tomada, São Paulo, Brazil
- 2012 PechaKucha presentation at *Ignite*, Mediamatic, Amsterdam
- 2011 *BERM/Date New Talent.* Group show at BERM art-space, Amsterdam
- 2011 *In Between Below Above.* Solo exhibition at TeTo gallery, Amsterdam
- 2010 *The plaza principle.* Group show, TK Maxx shopping Mall, Leeds, UK
- 2010 *Trajectories.* Graduation exhibition and lecture, Gerrit Rietveld Academy, Amsterdam
- 2009 Director & editor music video *No use in Fighting* for Life in industrial Europe
- 2008 *Chameleon.* Performance at Roode Bioscoop, Amsterdam
- 2008 Director & editor music video *Maybe the Dancefloor* for HITMETV

### **Relevant (Artistic) Research Experience**

- 2021-present ArtScience fellow at the UvA-Institute for Advanced Studies, University of Amsterdam
- 2020-present Artist in residence / fellow researcher at Waag society, team Make
- 2014-2019 Doctoral research entitled *Elements in foraminiferal shells as recorders of past climates*, Netherlands Institute for Sea Research
- 2017 Guest researcher at Japanese Agency for Marine Science and Technology
- 2016 Guest researcher at Caribbean-Netherlands Science Centre, St. Eustatius
- 2015 Co-organizer research expedition Mediterranean NESSC-cruise
- 2014 Internship and M.Sc. thesis *Deep-sea sediments of the Gambia Abyssal Plain* at NIOZ.
- 2013 Participant research expedition TRAFFIC, crossing the Atlantic Ocean
- 2012 B.Sc. thesis at IBED/UvA *Modelling Seagull trajectories using GPS-trackers and wind and sea current data.*

### **Selection of International Scientific Talks**

- 2018 Gordon Research Seminar on Biomineralization, Colby-Sawyer College, New London (NH), US. *Element ratios and precipitation rate in foraminiferal calcite* (invited speaker).

- 2017 JpGU-AGU joint meeting, Chiba, Japan. *A more robust salinity proxy: towards a mechanistic understanding of Sodium incorporation in foraminiferal calcite.*
- 2017 Goldschmidt conference on Geochemistry, Paris, France. *A mechanistic understanding of element incorporation in foraminiferal calcite.*

## Scientific Publications

1. Geerken, E., de Nooijer, L., Toyofuku, T., Roepert, A., Middelburg, J. J., Kienhuis, M. V., ... & Reichart, G. J. (2021). High precipitation rates characterize biomineralization in the benthic foraminifer *Ammonia beccarii*. *Geochimica et Cosmochimica Acta*.
2. Roepert, A., Polerecky, L., Geerken, E., Reichart, G. J., & Middelburg, J. J. (2020). Distribution of chlorine and fluorine in benthic foraminifera. *Biogeosciences*, 17(18), 4727-4743.
3. Geerken, E., de Nooijer, L. J., Roepert, A., Polerecky, L., King, H. E., & Reichart, G. J. (2019). *Element banding and organic linings within chamber walls of two benthic foraminifera*. Scientific reports, 9(1), 3598.
4. Dirksen, J. P., Hennekam, R., Geerken, E., & Reichart, G. J. (2019). A Novel Approach Using Time-Depth Distortions to Assess Multicentennial Variability in Deep-Sea Oxygen Deficiency in the Eastern Mediterranean Sea During Sapropel S5. *Paleoceanography and Paleoclimatology*.
5. Dijk, I. V., Barras, C., Nooijer, L. J. D., Mouret, A., Geerken, E., Oron, S., & Reichart, G. J. (2019). Coupled calcium and inorganic carbon uptake suggested by magnesium and sulfur incorporation in foraminiferal calcite. *Biogeosciences*, 16(10), 2115-2130.
6. Geerken, E., Nooijer, L. J. D., Dijk, I. V., & Reichart, G. J. (2018). Impact of salinity on element incorporation in two benthic foraminiferal species with contrasting magnesium contents. *Biogeosciences*, 15(7), 2205-2218.

## Awards and Grants

- 2020 Stimuleringsfonds Creatieve Industrie starting grant for project *Mineral Matters & Organic Octahedrons*
- 2020 Amsterdams Fonds voor de Kunst grant for project *Build like a shell*
- 2018 NESSC outreach grant for the movie *Het Kleinste Huis*
- 2017 NESSC Travel grant for JAMSTEC Japan

- 2015 Honourable Mention KNGMG Escherprize for master thesis *Buoyancy mechanisms of Orbulina universa: can fossil shells provide a key to past ocean densities?*
- 2014 Best poster award, The Micropaleontological Society Meeting, Texel
- 2010 Yariv Alter Fin- VAV department prize (shared 1st prize) for best graduation exhibition *Gerrit Rietveld Academy*, Amsterdam

## Education Experience

- 2022 Advisor for Master of Artistic Research UvA students
- 2021 Lecture at Designathon Makers Camp at Amsterdam University college: Green production spaces in the city of Amsterdam.
- 2021 Organiser and lecturer *Urban Ecology: Building as Being* lecture series for the Rotterdam Academy of Architecture
- 2021 Advisor graduation project Erco Lai, KABK Industrial design
- 2021 Workshops & Dialogue on 'Building' in a complex world for the Comenius Course *Leiderschap in Complexiteit*
- 2021 Expert Core team member JongerenXNaturalis: Manifest *Tijd voor Biodiversiteit*
- 2019 Guest teacher *Geopsyche* course Master Artistic Research Royal Academy of Arts (KABK), Den Hague
- 2016-2019 Daily supervision and guidance of 4 M.Sc. students at NIOZ
- 2014-2018 Participant of '*Tipping-point-ahead*' NESSC outreach program for high-school students, creating movies and teaching modules.
- 2014 Teacher assistant M.Sc. course *Paleoceanography* at Utrecht University