

# Stanford

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## Richard Nevle

- Lecturer, Earth Systems Program
- Deputy Director, Earth Systems Program, Earth Systems Program
- 📄 Curriculum Vitae available Online

### Bio

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#### CURRENT ROLE AT STANFORD

Deputy Director, Earth Systems Program

#### ACADEMIC APPOINTMENTS

- Lecturer, Earth Systems Program

#### HONORS AND AWARDS

- Walter J. Gores Award, Stanford University (2018)
- Excellence in Teaching, School of Earth, Energy, and Environmental Sciences (2017)
- Outstanding Teacher Award, University of California San Diego (2001, 2002)
- Chevron Fellow, Stanford University (1991)
- National Science Foundation Graduate Fellow, Stanford University (1989-1992)
- Pond Prize for best undergraduate thesis in Geology, Amherst College (1987)

#### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Sustainability Design Team, Education Lead, Stanford University (2019 - present)
- Long-Range Planning Committee, Education Area Steering Group, Stanford University (2017 - present)
- Evaluation Committee, Notation in Science Communication, Program for Writing and Rhetoric, Stanford University (2016 - present)
- Writing and Rhetoric Requirement Governance Board, Stanford University (2015 - present)
- Teaching Task Force, School of Earth, Energy, and Environmental Sciences (2015 - 2016)

#### PROFESSIONAL EDUCATION

- Ph.D., Stanford University , Geological and Environmental Sciences (1995)
- B.A., Amherst College , Geology (1987)

### Research & Scholarship

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#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

I study drivers of past climate change on millennial to million-year timescales using natural archives that preserve records of climate-related information. My most recent work has focused on the impacts of prehistoric human activities on the Earth's carbon cycle and the impacts of these activities on atmospheric greenhouse gas concentrations.

## Teaching

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### COURSES

#### 2018-19

- Earth Systems Capstone Project: EARTHSYS 210P (Win, Spr)
- Introduction to Earth Systems: EARTHSYS 10 (Aut)
- Natural Perspectives: Geology, Environment, and Art: EARTH 193 (Spr)
- Seminar on Philosophy, Politics, and the Environment: EARTHSYS 298 (Win)
- Senior Capstone and Reflection: EARTHSYS 210A (Aut)
- Senior Capstone and Reflection: EARTHSYS 210B (Win)
- Wild Writing: EARTHSYS 149, EARTHSYS 249 (Spr)

#### 2017-18

- Earth Systems Capstone Project: EARTHSYS 210P (Win, Spr)
- Introduction to Earth Systems: EARTHSYS 10 (Aut)
- Natural Perspectives: Geology, Environment, and Art: EARTH 193 (Spr)
- Quick Capture and Questions: Practicing Natural History Through Watercolor: EARTHSYS 24 (Win)
- Senior Capstone and Reflection: EARTHSYS 210A (Aut)
- Senior Capstone and Reflection: EARTHSYS 210B (Win)
- Wild Writing: EARTHSYS 149, EARTHSYS 249 (Spr)

#### 2016-17

- Earth Systems Capstone Project: EARTHSYS 210P (Win, Spr)
- Introduction to Earth Systems: EARTHSYS 10 (Aut)
- Natural Perspectives: Geology, Environment, and Art: EARTH 193 (Spr)
- Senior Capstone and Reflection: EARTHSYS 210A (Aut)
- Wild Writing: EARTHSYS 149, EARTHSYS 249 (Spr)

#### 2015-16

- Earth Systems Capstone Project: EARTHSYS 210P (Win, Spr)
- Environmental Justice in the Bay Area: EARTHSYS 16SI, URBANST 16SI (Spr)
- Groundwork for COP21: CEE 163F, CEE 263F, EARTHSYS 163F, EARTHSYS 263F (Aut)
- International Climate Negotiations: Unpacking the Road to Paris: CEE 163E, CEE 263E, EARTHSYS 163E, EARTHSYS 263E (Aut)
- Introduction to Earth Systems: EARTHSYS 10 (Aut)
- Natural Perspectives: Geology, Environment, and Art: EARTH 193 (Spr)
- Senior Capstone and Reflection: EARTHSYS 210A (Aut)
- Senior Capstone and Reflection: EARTHSYS 210B (Win)
- Wild Writing: EARTHSYS 149, EARTHSYS 249 (Spr)

### STANFORD ADVISEES

#### Master's Program Advisor

Freya Chay

## Publications

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### PUBLICATIONS

- **Quick capture and questions: A curriculum for introducing natural history through field journaling** *Journal of Natural History Education and Experience*  
Chay, F., Black, H., Nevle, R.  
2018; 12: 5-14
- **Stopping wildlife disease from becoming a crisis: a collaborative leadership success story 2016-5**  
Krebs, M., McIntosh, T., Nevle, R., Sturner, P.  
National Socio-Environmental Synthesis Center (SESYNC).  
2016 ; SESYNC Case Study for Teaching Socio-Environmental Synthesis
- **Neotropical human-landscape interactions, fire, and atmospheric CO2 during European conquest** *HOLOCENE*  
Nevle, R. J., Bird, D. K., Ruddiman, W. F., Dull, R. A.  
2011; 21 (5): 853-864
- **The Columbian Encounter and the Little Ice Age: Abrupt Land Use Change, Fire, and Greenhouse Forcing** *ANNALS OF THE ASSOCIATION OF AMERICAN GEOGRAPHERS*  
Dull, R. A., Nevle, R. J., Woods, W. I., Bird, D. K., Avnery, S., Denevan, W. M.  
2010; 100 (4): 755-771
- **Effects of syn-pandemic fire reduction and reforestation in the tropical Americas on atmospheric CO2 during European conquest** *PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY*  
Nevle, R. J., Bird, D. K.  
2008; 264 (1-2): 25-38
- **A gold-bearing horizon in the Kap Edvard Holm Complex, East Greenland** *Economic Geology*,  
Bird, D. K., Arnason, J. G., Brandriss, M. E., Nevle, R. J., Radford, G., Bernstein, S., Guanacos, R. A., Keleman, P. B.  
1995; 90: 1288-1300
- **Imprint of meteoric water on the stable isotope compositions of igneous and secondary minerals, Kap Edvard Holm Complex, East Greenland** *Contributions to Mineralogy and Petrology*  
Brandriss, M. E., Nevle, R. J., Bird, D. K., O'Neil, J. R.  
1995; 121 (1): 74-86
- **TERTIARY PLUTONS MONITOR CLIMATE-CHANGE IN EAST GREENLAND** *GEOLOGY*  
NEVLE, R. J., Brandriss, M. E., Bird, D. K., McWilliams, M. O., ONEIL, J. R.  
1994; 22 (9): 775-778