

# Stephen M. Chignell

## Education

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### Ph.D. in Resources, Environment and Sustainability

Vancouver, BC, Canada

UNIVERSITY OF BRITISH COLUMBIA

2023

Supervisors: Dr. Mark Johnson & Dr. Terre Satterfield

Dissertation Title: "A critical physical geography of conservation, water, and scientific research in the Bale Mountains, Ethiopia"

### M.S. in Watershed Science

Fort Collins, CO, USA

COLORADO STATE UNIVERSITY

2017

Supervisor: Dr. Melinda Laituri

Thesis Title: "Ethiopian socio-hydrology: geographies of development and change in the water tower of Africa"  
Graduate certificate in Interdisciplinary International Development Studies

### B.M. in Music (*magna cum laude*)

Wheaton, IL, USA

WHEATON COLLEGE

2011

Minor: International Development and Geo-technology

## Research Appointments

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### Department of History, University of Bristol

Bristol, UK

POST-DOCTORAL RESEARCH ASSOCIATE

Mar. 2024 – Sept. 2024

"Beautiful and Relatively Wild: Applied Environmental Histories of Britain's National Parks"

### Institute for Resources, Environment and Sustainability, University of British Columbia

Vancouver, BC

GRADUATE RESEARCH ASSISTANT

Sept. 2022 – Sept. 2023

Course co-design and instruction, "RES 500E: An exploration of quantitative methods for use in interdisciplinary contexts and social-ecological systems research"

### Department of Anthropology, University of British Columbia

Vancouver, BC

GRADUATE RESEARCH ASSISTANT

July 2021 – Sept. 2021

"Ecologies of harm: Mapping contexts of vulnerability in the time of COVID-19"

### Institute of Arctic and Alpine Research, University of Colorado Boulder

Boulder, CO

SENIOR PROFESSIONAL RESEARCH ASSISTANT

July 2019 – July 2023

"Environmental history of the McMurdo Dry Valleys Long Term Ecological Research project"

### Department of History, Colorado State University

Fort Collins, CO

GRADUATE RESEARCH ASSISTANT

Sept. 2015 - July 2019

"Assessing changing patterns of human activity in the McMurdo Dry Valleys using digital photo archives"

### Natural Resource Ecology Laboratory, Colorado State University

Fort Collins, CO

GRADUATE RESEARCH ASSISTANT

Oct. 2016 - Dec. 2017

Contributing author: "Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) Global Assessment Ch. 3"

### Department of Ecosystem Science and Sustainability, Colorado State University

Fort Collins, CO

GRADUATE RESEARCH ASSISTANT

Jan. 2016 - Dec. 2017

"Mapping secondary cities for resiliency, human security, and emergency preparedness"

### NASA DEVELOP Program, USGS Fort Collins Science Center

Fort Collins, CO

RESEARCH CONTRACTOR and TEAM LEADER

May 2013 - July 2015

"Mapping four decades of fire history for targeted conservation in the south central highlands of Ethiopia" (selected as 2015 flagship project for NASA Applied Earth Sciences Division) and four additional projects

RESEARCH CONTRACTOR

May 2012 - July 2012

"Assessing impacts of mountain pine beetle on forest stand structure in Fraser Experimental Forest"

## Peer-reviewed Publications

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Ramachandran A, **Chignell SM**, Choi Y, Vertinsky P (In Press). The expanding reach of the somatotype into the 21st century. *Journal of Sport History*.

Wright A, Brooks C, Gooseff M, Howkins A, and **Chignell S** (2024). An analysis of McMurdo Dry Valleys' lotic habitats within Antarctica's protected area network and addressing gaps in biodiversity protection. *Arctic, Antarctic, and Alpine Research* 56. Taylor & Francis: 2375176. doi:10.1080/15230430.2024.2375176. ([link](#))

Urquidi Diaz A, Kirca S, Schuldt A, and **Chignell S** (2024). 'Spatializing' Travel Narratives in the Belgrade Forest Project: Grounded Methods and Reflexive Strategies for Interdisciplinary Collaboration. *Journal of Map & Geography Libraries* 19(1-2), 22-54. ([link](#))

**Chignell SM**, Ramachandran A, Satterfield T (2024). One size fits all: How the 'Ethiopian Highlands' made Bale Mountains National Park inscrutable. *Environment and Planning E: Nature and Space*. 7(3): 1194-1221. ([link](#))

McDowell G, Stevens M, Marshall S, Higgs E, Jacob A, Johnson GMJ, Johnson L, Dicker M...**Chignell S**, et al. (2023). *Canadian Mountain Assessment: Walking Together to Enhance Understanding of Mountains in Canada*. University of Calgary Press. ([link](#))

**Chignell SM** and Satterfield T (2023). Seeing beyond the frames we inherit: A challenge to tenacious conservation narratives. *People and Nature*. 5(6): 2107-2123. ([link](#))

Rader AM, Biermann C, **Chignell SM**, Clifford KR, Kelley LC, Lave R (2023). Practicing critical physical geography: New trading zones and interactional expertise in an expanding field. *The Canadian Geographer / Le Géographe canadien* 67: 10-16. ([link](#))

Hughes KA, Santos M, Caccavo JA, **Chignell SM**, Gardiner NB, Gilbert N, et al. (2022). Ant-ICON - 'Integrated Science to Inform Antarctic and Southern Ocean Conservation': a new SCAR Scientific Research Programme. *Antarctic Science*. 34(6): 446-455. ([link](#))

**Chignell SM** (2022). A missing link? Network analysis as an empirical approach for critical physical geography. *The Canadian Geographer/Le Géographe canadien*. 67(1): 52-73. **\*\*Selected as Editor's Featured Article - November 2022\*\*** ([link](#))

**Chignell SM**, Howkins A, Gullett P, Fountain AG (2022). Patterns of interdisciplinary collaboration resemble biogeochemical relationships in the McMurdo Dry Valleys, Antarctica: a historical social network analysis of science, 1907-2016. *Polar Research*. 41. ([link](#))

**Chignell SM**, Myers M, Howkins A, Fountain AG (2021). Research sites get closer to field camps over time: Informing environmental management through a geospatial analysis of science in the McMurdo Dry Valleys, Antarctica. *PLoS ONE*. 16(11), e0257950. ([link](#))

Howkins A, **Chignell SM**, Fountain AG (2021). Vanda Station, Antarctica: a biography of the Anthropocene. *Journal of the British Academy*. 9(s6): 61-89. ([link](#))

Howkins A, **Chignell SM**, Gullett P, Fountain AG, Brett M, Preciado E (2020). A digital archive of human activity in the McMurdo Dry Valleys, Antarctica. *Earth System Science Data*. 12: 1117-1122. ([link](#))

**Chignell SM**, Laituri MJ, Young NE, Evangelista PH (2019). Afroalpine wetlands of the Bale Mountains, Ethiopia: distribution, dynamics, and conceptual flow model. *Annals of the American Association of Geographers*. (109)3: 791-811. ([link](#))

Hopping KA, **Chignell SM**, Lambin EF (2018). The demise of caterpillar fungus in the Himalayan region due to climate change and overharvesting. *Proceedings of the National Academy of Sciences*. (115)45: 11489-94. ([link](#))

**Chignell SM**, Luizza MW, Skach S, Evangelista PH, Young NE (2018). An integrative modeling approach to mapping wetlands and riparian areas in a heterogeneous Rocky Mountain watershed. *Remote Sensing in Ecology and Conservation*. 4(2): 150-165. ([link](#))

Young NE, Anderson RS, **Chignell SM**, Vorster AG, Lawrence RL, Evangelista PH (2017). A survival guide to Landsat preprocessing. *Ecology*. 98(4): 920-932. ([link](#))

Wohl E, Rathburn S, **Chignell S**, Garrett K, Laurel D, Livers B, Patton A, Records R, Richards M, Schook D, Sutfin N, Wegener P (2017). Mapping longitudinal stream connectivity in the North St. Vrain Creek watershed of Colorado. *Geomorphology*. 277:171-181. ([link](#))

West, AM, Evangelista PH, Jarnevich CS, Kumar S, Swallow S, Luizza MW, **Chignell SM** (2017). Using multi-date satellite imagery to monitor invasive grass species distribution in post-wildfire landscapes: an iterative, adaptable approach that employs open-source data and software. *International Journal of Applied Earth Observation and Geoinformation*. (59) 135-146. ([link](#))

**Chignell SM** and Laituri MJ (2016). Telecoupling, urbanization, and the unintended consequences of water development aid in Ethiopia, in Wessel G. and Greenberg J., eds., *Geoscience for the Public Good and Global Development: Toward a Sustainable Future* (Vol. 520), Geological Society of America. ([link](#))

**Chignell SM**, Anderson RS, Laituri MJ, Evangelista PH, Merritt DM (2015). Multi-temporal independent component analysis and Landsat 8 for delineating maximum extent of the 2013 Colorado Front Range flood. *Remote Sensing*. 7(8): 9822-9843. ([link](#))

## Fellowships, Scholarships, and Awards

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- 2022 **Gibson Citation**, Green College, University of British Columbia
- 2021 **UBC GIS Scholarship (\$1,000 CAD)**, Environmental Systems Research Institute (ESRI) Canada
- 2019 **Vanier Canada Graduate Scholarship (\$150,000 CAD)**, Natural Sciences and Engineering Research Council of Canada
- 2019 **1<sup>st</sup> Place**, Sustainability Storytelling Competition: Visualizations with Open Data, World Resources Institute
- 2018 **R. Howard Webster Foundation Fellowship (\$2,500 CAD)**, Green College, University of British Columbia
- 2018 **International Doctoral Fellowship (\$150,000 CAD)**, University of British Columbia
- 2018 **Marie Skłodowska-Curie PhD Fellowship (€150,000 EUR)**, University of Bern, Switzerland [*Declined*]
- 2017 **Travel Award (\$500 USD)**, Consortium of Universities for the Advancement of Hydrologic Science
- 2015 **Africa Center Graduate Fellowship**, School of Global Environmental Sustainability, Colorado State University
- 2015 **Public Lands History Center Graduate Fellowship**, Department of History, Colorado State University
- 2014 **Oscar and Isabel Anderson Graduate Fellowship (\$2,000)**, Warner College of Natural Resources, Colorado State University
- 2014 **1<sup>st</sup> Place**, Morgan Library GIS Day Poster Fair, Colorado State University
- 2013 **Travel Award (\$500 USD)**, Interdisciplinary International Development Studies Program, Colorado State University
- 2013 **Graduate Scholarship (\$5,000 USD)**, United States Geospatial Intelligence Federation
- 2013 **James E. Ellis Humans & The Environment Scholarship (\$500 USD)**, Natural Resource Ecol. Lab., Colorado State University
- 2013 **Outstanding Student in GIS Award (\$1,000 USD)**, Environmental Systems Research Institute (ESRI)

## Selected Presentations

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Ramachandran A, **Chignell SM**, Tomar B. Feminist approaches to theory and methodology (Arts). *(De)Mystifying Gender+ in Research: A Workshop Series and Conversation Space*, Office of Regional and Community Engagement, University of British Columbia, Vancouver, BC, Canada, March 1, 2023.

Ramachandran A, **Chignell SM**, Tomar B. Feminist approaches to theory and methodology (Economics). *(De)Mystifying Gender+ in Research: A Workshop Series and Conversation Space*, Office of Regional and Community Engagement, University of British Columbia, Vancouver, BC, Canada, January 27, 2023.

Wynn G, Hassan M, **Chignell SM** (Panelist). Geography over time: An intellectual kaleidoscope. *Emeritus Series at Green College: Disciplines over time: Making, keeping, and breaking the boundaries of knowledge*. Green College, University of British Columbia, Vancouver, BC, Canada, October 20, 2022.

**Chignell, SM**, Howkins A, Liggett, D. Towards a biocultural paradigm shift in Antarctic conservation. *10<sup>th</sup> Scientific Committee on Antarctic Research Open Science Conference*. Online, August 1, 2022.

Ramachandran A, **Chignell SM**, Vertinsky P. Examining the resilience of body classification systems through a mixed-methods survey of somatotype research from 1940-2022. *50<sup>th</sup> Annual Convention of the North American Society for Sport History*. Chicago, IL, USA, May 30, 2022.

Satterfield T, **Chignell SM**, Gavenus E, Stevens M, Cutting A (Panelist). Methods on the move: examining the expected role for field-based methodologies in social science research. *82<sup>nd</sup> Annual Meeting of the Society for Applied Anthropology*, Online, March 23, 2022.

Kirca S, **Chignell SM**, Schuldt A, Urquidi A. Reconstructing the historic fabric of Belgrade Forest (Istanbul) through its toponyms as a means to revitalizing conservation and restoration efforts. *20<sup>th</sup> Commonwealth Forestry Conference*, Vancouver, BC, Canada, August 16, 2021.

**Chignell SM**, Cohen M, Fortes A, McIlroy-Young B, Rincon G, Rojas-Bernal LA (Panelist). Dialogue across disciplines: perspectives on economic growth and environmental sustainability. *Green College Resident Members' Series: Actors on the Anthro(s)cene*. Green College, University of British Columbia, Vancouver, BC, Canada, November 11, 2019.

**Chignell SM**. Watershed science, conservation, and the politics of knowledge in the Bale Mountains, Ethiopia. *Transformative human-environment research & participatory methods: From co-production to co-producing*. Integrative Research Institute on Transformations of Human-Environment Systems, Humboldt-Universität zu Berlin, Berlin, Germany, September 16, 2019 [poster].

**Chignell SM**. Fountain A, Howkins A. Assessing changing patterns of human activity in the McMurdo Dry Valleys using digital photo archives. *McMurdo Long-term Ecological Research Summer Science Meeting*. Institute of Arctic and Alpine Research, University of Colorado Boulder, Boulder, CO, USA, August 18, 2019.

**Chignell SM**. Flood Risk Mapping: A survey of geospatial approaches. *Secondary Cities Latin American Technical Exchange*. Universidad San Francisco de Quito, Quito, Ecuador, June 4, 2019.

Robinson D, Howkins A, **Chignell SM**, Adams BJ, Barrett JE, Priscu JC, Gooseff MN, Doran PT, Takacs-Vesbach C. Environmental History: Examining Disturbances in Previously Used Antarctic Field Camps. *2018 Long-Term Ecological Research All Scientists' Meeting*. Asilomar Conference Grounds, Pacific Grove, CA, USA October 1, 2018.

**Chignell SM**. Early scientific research in the McMurdo Dry Valleys: bibliometric analysis and visualization. *Humanities and Social Science Expert Group of the Scientific Committee on Antarctic Research*. Institute for Marine and Antarctic Studies, University of Tasmania, Hobart, Australia, July 5, 2017.

Howkins A, Gullett P, and **Chignell SM**. Picturing the Past: The changing nature of place in the McMurdo Dry Valleys, Antarctica. *Public Lands History Center Speaker Series*, Colorado State University, Ft. Collins, CO, USA, April 12, 2017.

**Chignell SM** and Laituri MJ. Remote sensing and change detection analysis in secondary cities. *Annual Report to U.S. Department of State Office of the Geographer*, Colorado State University, Ft. Collins, CO, March 31, 2017.

Galvin KA and **Chignell SM**. Mapping the intersection of key biodiversity areas and indigenous lands. *Global Development Risk Assessment Science Advisory Meeting*, The Nature Conservancy, Ft. Collins, CO, February 8, 2017.

**Chignell SM** (Panelist). Hope for the Future: Critical Engagement with the Sustainable Development Goals, *Office of International Programs Seminar*, Colorado State University, Ft. Collins, CO, November 10, 2016.

**Chignell SM** (Session discussant). Forest, agricultural, and urban transitions in Mainland Southeast Asia: Synthesizing knowledge and developing theory. *American Association of Geographers Annual Meeting*, San Francisco, CA, April 2, 2016.

Young NE, Anderson RS, **Chignell SM**, and Vorster A. An ecologist's survival guide to Landsat preprocessing. "*Behind the Science*" *Seminar Series*, Natural Resource Ecology Laboratory, Colorado State University, Ft. Collins, CO, Nov. 13, 2015.

Woodward B and **Chignell SM**. Highlight Presentation: Ecological forecasting. *NASA DEVELOP Annual Earth Science Applications Showcase*, NASA Headquarters, Washington D.C., August, 2015.

**Chignell SM**, Anderson RS, Evangelista PH, Laituri MJ, Merritt DM. Mapping maximum flood extent using multi-temporal independent component analysis and Landsat 8 along Colorado's Front Range. *American Geophysical Union Annual Hydrology Days*, Colorado State University, Ft. Collins, CO, March 25, 2015.

Laituri MJ and **Chignell SM**. (Invited keynote speakers) The University and Geospatial Literacy. GeCo West Conference, Laramie, Wyoming, September 18, 2013.

**Chignell SM** and Skach S. Wildfire and Wetlands: Landsat, GIS, and Spatial Models for Mapping Critical Wetlands in Northern Colorado. *American Geophysical Union Annual Fall Meeting Ignite Talks*, San Francisco, CA, Dec. 2013.

**Chignell SM** and Laituri MJ. A new application of the urban land teleconnections conceptual framework for identifying linkages between water development projects and urbanization in Ethiopia. *Geological Society of America Annual Meeting*, Denver, CO, October 2013.

## Teaching

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### **An Exploration of Quantitative Methods for Use in Interdisciplinary Contexts and Social-Ecological Systems Research (graduate) \*\***

CO-DESIGNER and CO-INSTRUCTOR

\*\* Received Dean's Recognition for highest Student Experience Scores (Top 5%) in the Faculty of Science, Winter Term 2, 2023

*Institute for Resources, Environment and Sustainability,  
University of British Columbia  
2023*

### **Concepts in GIS (graduate)**

GRADUATE TEACHING ASSISTANT

*Dept. of Ecosystem Science and Sustainability,  
Colorado State University  
2015*

### **Geospatial Applications in Natural Resources (undergraduate)**

GRADUATE TEACHING ASSISTANT

*Dept. of Forest and Rangeland Stewardship,  
Colorado State University  
2012-2014*

### **Geographic Information Systems (undergraduate)**

UNDERGRADUATE TEACHING ASSISTANT

*Dept. of Geology and Environmental Science, Wheaton College  
2011*

### **Introduction to Music (undergraduate)**

UNDERGRADUATE TEACHING ASSISTANT

*Conservatory of Music, Wheaton College  
2011*

## Professional Service

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PEER-REVIEWER (Number of reviews indicated in brackets)

2023 Environment and Planning E: Nature and Space (1), The Professional Geographer (1), Progress in Physical Geography (1)  
2022 National Research Council Canada: National Killam Program (3)  
2021 The Canadian Geographer (4), Ambio: A Journal of Environment and Society (1)  
2020 Ambio: A Journal of Environment and Society (1)  
2019 Remote Sensing (1)  
2018 Applied Geography (1)  
2017 Remote Sensing in Ecology and Conservation (1)  
2016 Geological Society of America Special Papers (3)  
2015 Wetlands (1)

### UNIVERSITY SERVICE AND PUBLIC OUTREACH

**Member**, Steering Committee, Integrated Science to Inform Antarctic and Southern Ocean Conservation, SCAR (2021–Present)  
**Chair**, Sustainability Committee, Green College, University of British Columbia (2019–2021)  
**Member**, Membership Committee, Green College, University of British Columbia (2019–2020)  
**Member**, Academic Committee, Green College, University of British Columbia (2019–2020)  
**Invited Consultant**, Water Experts Program, United States Embassy in Ethiopia (2019)  
**Treasurer**, Resources, Environment and Sustainability Student Society, University of British Columbia (2019–2020)  
**Board Member**, Interdisciplinary International Development Studies Program, Colorado State University (2015–2017)  
**Technical Advisor**, Geospatial Centroid, Colorado State University (2016–2017)  
**National Park Service Volunteer**, Rocky Mountain National Park: human–environmental history of Moraine Park (2015)  
**Poster Judge**, NASA DEVELOP Virtual Poster Session (2015)  
**Poster Judge**, Undergraduate Watershed Science Research Fair, Colorado State University (2015)  
**Invited Speaker**, Xi Sigma Pi Natural Resources Honor Society, Colorado State University (2014)  
**Volunteer**, The Murulle Foundation: organized and packed textbook donations to Hawassa University, Ethiopia (2014)  
**Volunteer**, Girl Scouts of America: led experiential learning exercises about river processes and global water issues (2013)  
**Volunteer**, Water for Life Institute: community-based water, sanitation, and hygiene projects in Hawai'i, Kiribati, and Indonesia (2008)

## Reports

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Vega, J, Krueger T, König, B Garcia, A, Sachet, E, Molla, N, **Chignell S**, Tank, L, Rege, A, Zambrano, J, Edwards, G, Unverzagt, K, Gürdan, B, Gasmi, H, Awuku-Sowah, E, Aysal, L, Tamang, S (2021). How activist should scientists be? *THESys Discussion Paper No. 2021-1*. Humboldt-Universität zu Berlin, Berlin, Germany. Pp. 1-22. ([link](#))

**Chignell S**, Fowler C, Hopping K, Schulte D (2015). Mapping Fire History for Habitat Conservation in Ethiopia's Bale Mountains Using a Time Series of Landsat Data. *NASA DEVELOP Technical Report: Ethiopia Ecological Forecasting. Summer 2015*. \* selected as 2015 flagship project for NASA Applied Earth Sciences Division\*

**Chignell S**, West A, Luizza M, Haeffner M (2015) Landsat 8 and WorldView-2: A Duo for Monitoring Invasive Tamarisk. *NASA DEVELOP Technical Report: Arizona Ecological Forecasting II. Spring 2015*.

West A, **Chignell S**, Gibbons P, Luizza M, Woodward B. Using Landsat 8 OLI and TIRS to Enhance Invasion Risk Assessment of Tamarisk (*Tamarix* spp.) in Topock Marsh, Havasu National Wildlife Refuge. *NASA DEVELOP Technical Report: Arizona Ecological Forecasting. Fall 2014*.

**Chignell S**, Anderson R, Wakie T (2014). Application of Landsat 8, Topographic Variables, and MaxEnt for Mapping Critical Headwater Wetlands of Ethiopia. *NASA DEVELOP Technical Report: Ethiopia Water Resources. Summer 2014*.

**Chignell S** and Anderson R (2014). *Colorado Water Resources II: Utilizing Landsat 8 and MODIS for Mapping Extent, River Stage, and Impacts of the 2013 Colorado Floods. NASA DEVELOP Technical Report: Colorado Water Resources II. Spring 2014.*

**Chignell S**, Anderson R, Skach S, Weimer A (2013). Rising water: mapping the 2013 Colorado floods with Landsat 8. *NASA DEVELOP Technical Report: Colorado Water Resources. Fall 2013.*

**Chignell S**, Kessenich B, Skach S, Weimer A (2013). Utilizing Landsat and Statistical Models for Mapping Wetlands in Northern Colorado. *NASA DEVELOP Technical Report: Colorado Water Resources II. Summer 2013.*

Luizza M, Birtwistle A, **Chignell S**, Skach S (2013). Monitoring Riparian Wetlands in Colorado's Cache La Poudre Watershed. *NASA DEVELOP Technical Report: Colorado Water Resources. Spring 2013.*

Luizza M and **Chignell S** (2012). Assessing Mountain Pine Beetle Impacts on Forest Stand in Fraser Forest. *NASA DEVELOP Technical Report: Colorado Ecological Forecasting. Fall 2012.*

## Open Access & Research Communication

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**Chignell SM** (2023). Notes from the Icehouse: Mixed Methods, Dry Valleys, New Insights. *Global Environment* 16 (1), 149-158. ([link](#))

**Chignell SM** (Invited speaker). How to achieve the best reference manager setup using Zotero. *Professional development workshop*. Institute for Resources, Environment and Sustainability, University of British Columbia, Vancouver, BC, Canada, October 28, 2021.

Robertson L, Daurio M, **Chignell S**, Lacey A, Babidge S. Mapping Contexts of Vulnerability in the Time of COVID-19. *Society for Applied Anthropology Newsletter*. November 2021. ([link](#))

Clark J, Scrivener B, **Chignell SM** (panel moderator). Publishing In the Open: A Discussion on Open Access in Canada. *2021 Open Scholarship in Practice Week*, Centre for Teaching, Learning and Technology, University of British Columbia, Vancouver, BC, Canada, November 2, 2021.

**Chignell SM**, Crema L, Luna Perez E, Savage S. The ethics of publishing. *Graduate Pathways to Success Workshop*, Graduate and Postdoctoral Studies, University of British Columbia, Vancouver, BC, Canada, October 2, 2020. ([link](#))

**Chignell SM**, Luna Perez E, Crema L, Savage S. Scholarly publishing and the knowledge economy: how did we get here, where are we going, and what can we do about it? *IREC Seminar Series*. Institute for Resources, Environment and Sustainability, University of British Columbia, Vancouver, BC, Canada, January 30, 2020.

Hopping K, **Chignell S**, Lambin, E (2019). Why is the world's most expensive fungus disappearing? *Science Journal for Kids*, S. Dawson and R. Watson, ed. 1-5. ([link](#))

**Chignell SM** (2018). "Academics should ditch Elsevier and Mendeley — here's how". *The Nature of Food Blog*. ([link](#))

**Chignell, SM** (2018). Tutorial: The Best Reference Manager Setup (Zotero + ZotFile + Cloud Storage). Self-published method. DOI: 10.13140/RG.2.2.33585.48488/3. **\*\*79,000+ reads on ResearchGate.** ([link](#))

**Chignell SM** (2017). Plains to Peaks: Mapping wetlands and riparian areas in the Rocky Mountains. *Remote Sensing in Ecology and Conservation Blog*. ([link](#))

**Chignell, S** (2014). Ethiopian Headwaters: Connecting perspectives from maps to personal observation. *Notes from the Field*, Warner College of Natural Resources ([link](#))

## Non-Academic Work

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### Cartographic Consultant

*Dept. of History, Colorado State University*  
2013-2015

- Designed and created maps for faculty publications:
  - Howkins, A. (2017). *Frozen Empires: An Environmental History of the Antarctic Peninsula*. Oxford University Press
  - Orsi, J. (2014). *Citizen Explorer: The Life of Zebulon Pike*. Oxford University Press

### GIS Consultant

*Pivot, Ltd.*  
2014

- Designed and created a web-based GIS for targeting sewage-to-biofuel conversion projects in East Africa

### Intern

*Geospatial Centroid, Colorado State University*  
2011-2013

- Integrated field surveys, tabular data, and remote sensing imagery into a geospatial database for the U.S. Forest Service Rocky Mountain Research Station Fraser Experiment Forest, CO