

# Stanford

---



## Stace Maples

Assistant Director of Geospatial Collections & Services, Geospatial Information Services

### Bio

---

#### BIO

As the Assistant Director of Geospatial Collections & Services at Stanford Libraries, and the Head of The Stanford Geospatial Center, I provide support and collaboration to the Stanford research community in capturing and making sense of the “where” of their work through the acquisition and creation of spatial data, technologies and related services. An archaeologist by training and a technologist by temperament, I am interested in all aspects of mapping, from the aerial imaging of archaeological sites using kites, balloons and drones, to the development of platforms for the distribution of geographic information, to the intersection of AI and Earth observation imagery. I have over 25 years of experience using Geographic Information Systems, Geotechnology and Location-based Services for research and teaching, with expertise in a broad range of geospatial and supporting data, software and hardware systems.

#### CURRENT ROLE AT STANFORD

Assistant Director of Geospatial Collections & Services, Stanford Libraries

Head, Stanford Geospatial Center

Interim Head, David Rumsey Map Center

Lecturer, Stanford Doerr School of Sustainability

#### HONORS AND AWARDS

- JSK Professor of the Year, JSK Fellows Program (2016)

#### EDUCATION AND CERTIFICATIONS

- B.Sc., Southern Methodist University , Anthropology / Archaeology (1997)
- M.Sc., University of Texas, at Dallas , Geographic Information Sciences & Remote Sensing (2005)

#### PERSONAL INTERESTS

Location-Based Technologies Expert, Educator & Evangelist, Habitual Tinkerer, Lifetime Learner & Geospatial Swiss Army Knife.

#### LINKS

- GIS Support at Stanford Libraries: [gis.stanford.edu](https://gis.stanford.edu)
- Stanford Geospatial Center Slack: [stanford-geospatial.slack.com](https://stanford-geospatial.slack.com)

### Teaching

---

#### COURSES

2023-24

- Fundamentals of Geographic Information Science (GIS): EARTHSYS 144, ESS 164 (Spr)

#### 2022-23

- Fundamentals of Geographic Information Science (GIS): EARTHSYS 144, ESS 164 (Aut)

#### 2021-22

- Fundamentals of Geographic Information Science (GIS): EARTHSYS 144, ESS 164 (Aut)

#### 2020-21

- Fundamentals of Geographic Information Science (GIS): EARTHSYS 144, ESS 164 (Aut)

## Professional

---

### SKILLS AND EXPERTISE

#### Information Technology

- Artificial Intelligence (AI)
- Data Management
- Digital Preservation
- Digitization
- Emerging Technologies
- Geographic Information System (GIS)
- High-Performance Computing (HPC)
- Information Architecture
- Location-Based Services
- Research Data

### PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Co-Founder, Geo4LibCamp (2016 - present)
- Founding Co-Chair, International Image Interoperability (IIIF) Maps Community (2020 - present)

## Publications

---

### PUBLICATIONS

- **Opportunities to catalyse improved healthcare access in pluralistic systems: a cross-sectional study in Haiti.** *BMJ open*  
Klarman, M., Schon, J., Cajusma, Y., Maples, S., Beau de Rochars, V. E., Baril, C., Nelson, E. J.  
2021; 11 (11): e047367
- **High-throughput low-cost nl-qPCR for enteropathogen detection: A proof-of-concept among hospitalized patients in Bangladesh.** *PloS one*  
Flaherty, K. E., Grembi, J. A., Ramachandran, V. V., Haque, F., Khatun, S., Rahman, M., Maples, S., Becker, T. K., Spormann, A. M., Schoolnik, G. K., Hryckowian, A. J., Nelson, E. J.  
2021; 16 (10): e0257708
- **Electronic decision support and diarrhoeal disease guideline adherence (mHDM): a cluster randomised controlled trial** *LANCET DIGITAL HEALTH*  
Khan, A. I., Mack, J. A., Salimuzzaman, M., Zion, M. I., Sujon, H., Ball, R. L., Maples, S., Rashid, M., Chisti, M. J., Sarker, S. A., Biswas, D., Hossin, R., Bardosh, et al  
2020; 2 (5): E250–E258
- **Africa's Nomadic Pastoralists and Their Animals Are an Invisible Frontier in Pandemic Surveillance.** *The American journal of tropical medicine and hygiene*  
Hassell, J. M., Zimmerman, D. n., Fèvre, E. M., Zinsstag, J. n., Bukachi, S. n., Barry, M. n., Muturi, M. n., Bett, B. n., Jensen, N. n., Ali, S. n., Maples, S. n., Rushton, J. n., Tschopp, et al

2020

- **A Cluster-based, Spatial-sampling Method for Assessing Household Healthcare Utilization Patterns in Resource-limited Settings.** *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*  
Yu, A. T., Shakya, R. n., Adhikari, B. n., Tamrakar, D. n., Vaidya, K. n., Maples, S. n., Date, K. n., Bogoch, I. I., Bern, C. n., Qamar, F. n., Yousafzai, M. T., Garrett, D. O., Longley, et al  
2020; 71 (Supplement\_3): S239–S247
- **Making Pastoralists Count: Geospatial Methods for the Health Surveillance of Nomadic Populations.** *The American journal of tropical medicine and hygiene*  
Wild, H., Glowacki, L., Maples, S., Mejia-Guevara, I., Krystosik, A., Bonds, M. H., Hiruy, A., LaBeaud, A. D., Barry, M.  
2019
- **MAKING PASTORALISTS COUNT: HEALTH SURVEILLANCE OF A NOMADIC POPULATION USING A GEOSPATIALLY DERIVED SAMPLING FRAME**  
Wild, H., Glowacki, L., Maples, S., Mejia-Guevara, I., Hiruy, A., Krystosik, A., Bonds, M., LaBeaud, A., Barry, M.  
AMER SOC TROP MED & HYGIENE.2018: 659–60
- **DEVELOPMENT AND PRELIMINARY CLINICAL EVALUATION OF A MOBILE TECHNOLOGY FOR DIARRHEAL DISEASE OUTBREAK MANAGEMENT**  
Nelson, E. J., Haque, F., Ball, R., Maples, S., Khatun, S., Ahmed, M., Rahman, M., Kache, S., Chisti, M., Sarker, S., Schoolnik, G., Rahman, M.  
AMER SOC TROP MED & HYGIENE.2017: 538–39
- **Evaluation of a Smartphone Decision-Support Tool for Diarrheal Disease Management in a Resource-Limited Setting.** *PLoS neglected tropical diseases*  
Haque, F., Ball, R. L., Khatun, S., Ahmed, M., Kache, S., Chisti, M. J., Sarker, S. A., Maples, S. D., Pieri, D., Vardhan Korrapati, T., Sarnquist, C., Federspiel, N., Rahman, et al  
2017; 11 (1)
- **Uncovering Latent Metadata in the FSA-OWI Photographic Archive** *DIGITAL HUMANITIES QUARTERLY*  
Arnold, T., Maples, S., Tilton, L., Wexler, L.  
2017; 11 (2)
- **Is a Cholera Outbreak Preventable in Post-earthquake Nepal?** *PLoS neglected tropical diseases*  
Nelson, E. J., Andrews, J. R., Maples, S., Barry, M., Clemens, J. D.  
2015; 9 (8): e0003961
- **Ottoman Iceland: A Climate History** *ENVIRONMENTAL HISTORY*  
Mikhail, A.  
2015; 20 (2): 262-284
- **Reframing Ethnicity: Academic Tropes, Recognition beyond Politics, and Ritualized Action between Nepal and India** *AMERICAN ANTHROPOLOGIST*  
Shneiderman, S.  
2014; 116 (2): 279-295