Stanford

Stace Maples

Assistant Director of Geospatial Collections & Services, Geospatial Information Services

Bio

BIO

As Assistant Director of Geospatial Collections & Services at Stanford Libraries and Head of the Stanford Geospatial Center, I work at the intersection of teaching, research, and applied geospatial innovation. I partner with faculty, students, and research teams across Stanford to design curricula, develop spatial data resources, and apply geospatial methods that help answer complex research questions across the sciences, social sciences, and humanities.

An archaeologist by training and sa technologist by temperament, I have more than 25 years of hands-on experience with GIS, remote sensing, and location-based technologies. My research interests span the full lifecycle of geospatial information—from data capture, to large-scale platforms for geographic data distribution, and emerging applications of AI and Earth observation imagery. My teaching emphasizes both technical fluency and critical spatial thinking, preparing students and researchers to work effectively with geospatial data in academic and real-world contexts.

In parallel with my academic work, I collaborate with startups and external partners to translate geospatial research into practice. This includes advising early-stage companies on spatial data strategy, product development, and the responsible use of geospatial and AI technologies. Across the classroom, the lab, and the startup ecosystem, my work is driven by a commitment to expanding access to geospatial tools and helping others make meaningful sense of the “where” in their work.

CURRENT ROLE AT STANFORD

Assistant Director of Geospatial Collections & Services, Stanford Libraries

Head, Stanford Geospatial Center

Lecturer, Stanford Doerr School of Sustainability

Interim Head, David Rumsey Map Center (2023)

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)

SERVICE, VOLUNTEER, AND COMMUNITY WORK

- Geospatial Analyst (10/1/2025)

PERSONAL INTERESTS

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

LINKS

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

Teaching

COURSES

2025-26

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

2024-25

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

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)

Professional

SKILLS AND EXPERTISE

Information Technology

- Artificial Intelligence (AI)
- Cloud
- Digital Preservation
- Digitization
- 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

- **Diarrheal Disease Attributed to Shigella spp. and Enteroinvasive Escherichia coli among Children at Households in Haiti: A Case-Control Study.** *The American journal of tropical medicine and hygiene*

  Sriguha, I., Kuyt, S. R., Cajusma, Y., Cato, E., Brinkley, L., Sayeed, M. A., Maples, S., Beau De Rochars, V. M., Leung, D. T., Maurelli, A. T., Baril, C., Klarman, M. B., Nelson, et al

2025

- **Leveraging deep learning models to increase the representation of nomadic pastoralists in health campaigns and demographic surveillance.** *PLOS global public health*
  Liu, B., Maples, S., Kong, J., Fava, F., Jenson, N., Chelanga, P., Charles, S., Hassell, J., Robinson, L. W., Glowacki, L., Barry, M., Wild, H. B.
  2025; 5 (4): e0004018

- **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