

Gregg M. Verutes

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<http://geointerest.frih.org/portfolio>

KEY QUALIFICATIONS

- Cartographer/graphic designer with emphasis on interactive web mapping and storytelling
- Creative spatial modeler and analyst for communicating and visualizing big data
- Strong familiarity with open-source data (e.g., OSM), JavaScript libraries (Leaflet), APIs (CartoDB, MapBox)
- Experienced GIS programmer in spatial decision-support for environmental planning and conservation

EDUCATION

Cornell University, College of Human Ecology, Ithaca, NY
Bachelor of Science, Policy Analysis & Management May 2004

San Diego State University, College of Arts & Letters, San Diego, CA
Masters of Science, Geographic Information Science December 2008

SKILLS

Technical:

- Design (Adobe Illustrator & Photoshop, Leaflet, CartoDB, TileMill, MapBox Studio)
- Programming/Revision Control (Python, JavaScript, HTML5, CSS, Node.js, jQuery, D3, GitHub, BitBucket)
- Geographic Information Systems (ArcGIS, QGIS, Google Earth Pro, MAPublisher)
- Statistics (RStudio, SciPy, NumPy, SPSS)
- Database Management (MySQL WorkBench, MS Excel & Access, PyGeoprocessing)

Languages: English (fluent), Spanish (conversational)

Research methods: Spatial analysis and geostatistics, survey and interview instruments, online decision-support

PROFESSIONAL EXPERIENCE

Natural Capital Project, Stanford University, Palo Alto, CA

Instructional Designer and Technical Project Manager

February 2013 – present

Serve as spatial analyst and instructional designer connecting an interdisciplinary team of scientists, analysts and software engineers. Ecosystem modeler and cartographer for marine use-cases, award winning decision-support apps and publications. Lead a team of instructors offering introductory to advanced workshops in 15 countries on a variety of topics including marine planning, spatial modeling, graphic design and web mapping.

GIS Analyst

July 2010 – February 2013

Primary architect for the marine InVEST suite of decision-support tools; designed to help inform more cost-effective investments in natural resources. Provided GIS support to an interdisciplinary team of scientists based in Seattle, Palo Alto and Washington DC. Designed publication-quality visuals, web maps and analytical platforms.

Wake Forest University, Winston-Salem, NC

Research Faculty, Graduate School of Arts and Sciences

June 2014 – present

Co-teach grad seminar on natural resource management and environmental modeling for MA in Sustainability.

World Wildlife Fund, Washington, DC

GIS Analyst

December 2009 – July 2010

Wrote geoprocessing scripts and optimized existing code to increase efficiency and usability of the InVEST decision-support tool. Provided spatial analysis and cartographic support to different teams across WWF's Conservation Science Program including their freshwater and forest carbon initiatives. Designed and implemented an organization-wide workflow for collecting, processing and managing geospatial data.

National Geographic Society, Washington, DC

Instructor and Geography Intern

August 2009 – August 2011

Provided GIS and graphic design instruction to research editors at National Geographic Magazine. Served as researcher cartographer for NGS maps division in support of their *Atlas of the World, Ninth Edition* publication.

Baja Directions, Inc., Solana Beach, CA

Cartographer & GIS Technician

January 2007 – August 2009

Utilized GIS and graphic design software to publish sportfishing atlases and assorted charts of Southern California and Baja, Mexico for sale nationwide. Served as lead for layout, preparing proofs and finalizing files for print and distribution. Compiled high-resolution digital dataset and metadata package for sale in marine GPS transponders.

Penn, Schoen, & Berland Associates, Inc., Washington, DC

Project Manager (Market Research)

August 2004 – January 2007

Drafted, fielded, and analyzed phone and internet survey results for Fortune 500 companies and political candidates, including Tony Blair's 2005 re-election campaign. Managed a team of research analysts. Led focus groups in Europe and Asia to understand consumer behaviors in the event of an avian flu outbreak.

The New Yorker Magazine, Condé Nast, New York, NY

Cartoon Consultant

Summer 2005

Assisted cartoonists and graphic designers in proofing and cataloguing original artwork for weekly publications.

AWARDS

- Global Disaster Resilience App Challenge, UN Office for Disaster Risk Reduction September 2014
- Climate Grant, CartoDB May 2014
- Best Book/Atlas, Cartography and Geographic Information Society February 2011
- Student Award in Mapping, National Geographic Society April 2009
- Cartography Working Group, American Association of Geographers April 2008
- Graduate Research Scholarship, San Diego State University Graduate Division November 2007
- Eagle Scout, Boy Scouts of America January 2001

CONSULTANCIES AND SPECIAL CONTRIBUTIONS

- The Crown Estate, Great Britain 2015
- United Nations Environment Programme 2013 – 2015
- Conservation Strategy Fund 2013, 2014
- WWF Living Planet Report 2010, 2014
- WWF Focus (Magazine) January 2013
- Wake Up Belize (TV) October 2012
- National Geographic Magazine June 2011

RECENT PUBLICATIONS

Arkema, K.K.; **Verutes, G.M.**; Wood, S.A.; Clarke, C.; Rosado, S.; et al. "Embedding ecosystem services in coastal planning leads to better outcomes for people and nature." *Proceedings of the National Academy of Sciences* 112.24 (2015): 7390-7395. doi: [10.1073/pnas.1406483112](https://doi.org/10.1073/pnas.1406483112)

Verutes, G.M.; Huang, C.; Estrella, R.R.; & Loyd, K. (2014) Exploring scenarios of light pollution from coastal development reaching sea turtle nesting beaches near Cabo Pulmo, Mexico. *Global Ecology and Conservation*. doi: [10.1016/j.gecco.2014.09.001](https://doi.org/10.1016/j.gecco.2014.09.001)

Arkema, K.K.; **Verutes, G.**; Bernhardt, J.; Clarke, C.; Rosado, S.; et al. (2014) Assessing habitat risk from human activities to inform coastal and marine spatial planning in Belize. *Environmental Research Letters*, 9(11), 114016. doi: [10.1088/1748-9326/9/11/114016](https://doi.org/10.1088/1748-9326/9/11/114016)

Verutes, G.M. and A. Rosenthal. (2014) Using simulation games to teach ecosystem service synergies and tradeoffs. *Environmental Practice*. doi: [10.1017/S1466046614000222](https://doi.org/10.1017/S1466046614000222)

Arkema, K.K.; Guannel, G.; **Verutes, G.**; Wood, S.A.; Guerry, A.D.; Ruckelshaus, M.H.; et al. (2013) Coastal habitats shield people and property from sea-level rise and storms. *Nature Climate Change*. doi: [10.1038/nclimate1944](https://doi.org/10.1038/nclimate1944)

Verutes, G.M.; Benza-Fiocco, M.; Weeks, J.R. & Coulter, L.L. (2012) Health, poverty, and place in Accra, Ghana: mapping neighborhoods, *Journal of Maps*. doi: [10.1080/17445647.2012.744365](https://doi.org/10.1080/17445647.2012.744365)