

KAYLA A. PATEL

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PROFESSIONAL EXPERIENCE

Town of Acton, MA

Webmaster/GIS Technician | November 2015 – Present

- Performing geospatial analysis and creating static maps for town departments and public town meetings as needed.
- Maintaining the Town's geospatial data.
- Implementing ArcOnline Maps for inter-department and public use.
- Project managing an update to the Town's website.
- Coordinating web content across Town affiliated websites, working with staff to ensure up-to-date information.

NASA Develop National Program

Geospatial Researcher | June 2015 – August 2015

- Wrote the python script used to calculate a series of vegetation indices that derived shoreline changes, assessed wetland health, and created map outputs on a time series of 56 Landsat scenes.
- Presented the results to the partner organization, APNEP, and at NASA Headquarters in Washington, D.C.

Town of Acton, MA

GIS Assistant | September 2014 – May 2015

- Assisted organizing and managing the 2013 and 2014 updates to the Town's geospatial database.
- Assisted in the implementation of electronic permit tracking involving six departments.

GIS Intern | June 2014 – August 2014

- Updated the Town drainage dataset.
- Created crosswalk, accident history, traffic rules and orders, and subdivision datasets and maps for the Town.

SKILLS

Communication | High level research and writing skills, teamwork and collaboration, professionally fluent in Spanish

Programming | R, HTML/CSS, javascript, git, python

Raster and vector data analysis | Data preprocessing, land cover classification and change, spatial statistics

High quality map production | Slippy and static web maps, printed paper maps

PUBLICATIONS

Evaluating conflict surrounding mineral extraction in Ghana: Assessing the spatial interactions of large and small-scale mining | Article in Press, The Extractive Industries and Society

Kayla Patel; John Rogan, PhD; Nicholas Cuba; Anthony Bebbington, PhD.

EDUCATION

M.S. in GIScience, August 2015 | Clark University, 4.0/4.0

Thesis Title: *Evaluating conflict surrounding mineral extraction in Ghana: Assessing the spatial interactions of large and small-scale mining.*

B.A. in Geography and Sociology, May 2014 | Clark University, 3.77/4.0

Thesis Title: *The participation of civil society in the formation of Boston's Rose Kennedy Greenway.*

Pontificia Universidad Católica de Valparaíso, Spring 2013

Valparaíso, Chile. International Study Abroad.

HONORS AND AWARDS

Addams-Mills Award | Clark University Sociology Department, May 2014

One to two recipient(s) a year who have shown a dedicated commitment to community service and made strong academic contributions.

High Honors in Geography | Clark University Geography Department, May 2014

GTU International Geography Honor Society | Clark University, May 2014

Alpha Kappa Delta Sociology Honor Society | Clark University, May 2014