

# KAYLA A. PATEL

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paylakatel.github.io

987-505-3477

## 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** | Python, R, HTML/CSS, javascript, git

**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 GIS, 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 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