

# Alicia Milligan

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## EDUCATION

### Master of Science in Geography

Portland State University – Portland, Oregon

Expected Graduation Spring 2021

*Thesis Title: Mapping Sense of Place in Mount Hood National Forest*

*Committee: Geoffrey Duh, David Banis, Rebecca McLain, Hunter Shobe*

### Graduate Certificate in Geographic Information Systems

Portland State University – Portland, Oregon

Graduated June 2018

GPA: 4.0

### Bachelor of Science in Geography and Sustainable Urban Development Minor

Portland State University – Portland, Oregon

Graduated June 2009

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## TEACHING EXPERIENCE

### PT GIS Faculty Instructor

3.2020 - Present

*Department of Geography, Portland Community College*

- Instructor of record for GEO170-Maps and Geographic Information, GEO265-Introduction to GIS, and GEO270- Building a Map Portfolio.
- Implemented fully remote teaching techniques for online instruction of technical concepts and software systems, and organized class management
- Class curriculum incorporates teaching spatial analysis, data management, geospatial concepts, cartographic techniques and design, data visualization, technical use of multiple software platforms, accessing/creating datasets, community collaboration, and management of projects and portfolios.
- Designed course content and syllabus, prepared lectures and in-class exercises, created exams and study material to achieve course objectives, and served as student mentor
- Maintain required lab material and assignments

### Adjunct Professor

9.2019 – 12.2019

*Department of Geography, Portland State University*

- Instructor of record for GEOG380 Maps and Geographic Information, meeting three times a week for 65 minutes each; class size-45 students
- Designed class syllabus, prepared lectures and in-class exercises, created exams and study material to achieve course objectives
- Maintained required lab section material and assignments
- Implemented a variety of teaching techniques to accommodate multiple learning styles

### Substitute Teacher

5.2019 – 7.2019

*French American International School (Gilkey Middle School), Portland, OR*

- On-Call substitute for middle school GIS Design course, Design modules, Social Studies, Art, Music and other courses
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## TEACHING EXPERIENCE (continued)

### Teaching Assistant

9.2018 – 6.2019

*Department of Geography, Portland State University*

- Taught a technical lab section of GIS 1 GEOG488/588L for three consecutive terms
- Served as a teaching assistant for GEOG230 Environment and Society 1.2019-6.2019
- Planned lesson discussions, group assignment critiques, graded assignments, and provided guided software application education

## GUEST LECTURES

April 3, 2019: GEOG 230 - Environment and Society, Portland State University

April 17, 2019: GIS Design - Co-Taught, Gilkey International Middle School (French American International School)

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## RESEARCH EXPERIENCE

### Cartographer/Cartographic Editor

6.2019 – 9.2019

*Portland State University*

- Collaborative partner in producing spatial analysis and cartographic design for a book publication written by David Banis and Hunter Shobe called Upper Left Cities

### Assistant Research Analyst

12.2017 – 6.2019

*Center for Spatial Analysis and Research, Portland State University*

- Performed spatial analysis of environmental and land management data collected from the custom designed public participation GIS application for the Human Ecology Mapping project of Central Oregon Forests
- Project management and project collaboration with US Forest Service, Discover Your Forest and other external and internal partnerships
- Collaborative partner in writing and publishing a handbook for performing Human Ecology Mapping projects and US Forest Service HEM project report

### Research Assistant

7.2018 – 9.2018

*Department of Anthropology, Portland State University*

- Cartographer for Professor Jeremy Spoon in the Disaster as a Catalyst for Social-Ecological Transformation: Nepal Critical Transitions Project.
- Project funded by a U.S. NSF RAPID grant #1560661 2015-2018

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## RELEVANT EXPERIENCE

### Cartographer

4.2019 – 6.2019

*Desmond Cheung, Portland State University*

- Designed cartographic rendition of the ancient city of Hangzhou for a book manuscript.

### Cartographer II

3.2017 – 11.2017

*Center for Spatial Analysis and Research, Portland State University*

- Working in partnership with U.S Fish and Wildlife to georeference and mosaic historical aerial photos of wildlife refuges in the Pacific Northwest.

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## SKILLS

### GIS Tools

ArcMap, ArcGIS Pro, ArcGIS Online, ArcGIS Server, Collector for ArcGIS, QGIS, QGIS 2 Web, Google My Maps, ENVI, Google Earth, SQL,

### Web Tools

HTML, CSS, JavaScript, Visual Studio Code, Notepad ++, Various CMS Platforms

### Office Tools

Microsoft Office–Word, Excel, PowerPoint, Publisher, Adobe Illustrator, Adobe CC, GIMP 2, Google Suite of Tools, Mac OS Office Software, Zoom, Social Media Tools - Facebook, Instagram

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## PUBLICATIONS

### Datasets

Milligan, A.R. and Wise, D.R., 2019, Potential Grazing Land Within the Pacific Drainages of the Western United States, 2011: U.S. Geological Survey, <https://doi.org/10.5066/P98PDDT1>.

### Maps

Milligan, Alicia. "Map of Hangzhou's Sites" in Desmond Cheung, *Urban Sites & the Imperial Order in Ming Hangzhou*, book manuscript in preparation for the University of Washington Press.

Milligan, Alicia. *Nepal Earthquakes April 2015 (map)*. Multiple Scales. In: Jeremy Spoon. NSF Grant Proposal. September 2018.

Milligan, Alicia. *Nepal VDC Maps April 2015 (map)*. Multiple Scales. In: Jeremy Spoon. NSF Grant Proposal. September 2018.

Spoon, J., D. Gerkey, R. Bahadur Chhetri, A. Rai, and U. Basnet. "Navigating multidimensional household recoveries following the 2015 Nepal earthquakes." *World Development*, Volume 135, November, 2020,105041.  
(<http://www.sciencedirect.com/science/article/pii/S0305750X20301674>)

Jeremy Spoon, Chelsea E. Hunter, Drew Gerkey, Ram B. Chhetri, Alisa Rai, Umesh Basnet, Anudeep Dewan. "Anatomy of disaster recoveries: Tangible and intangible short-term recovery dynamics following the 2015 Nepal earthquakes", *International Journal of Disaster Risk Reduction*, Volume 51, 2020, 101879, ISSN 2212-4209,  
<https://doi.org/10.1016/j.ijdr.2020.101879>.  
(<http://www.sciencedirect.com/science/article/pii/S2212420920313819>)

### Articles

Banis, D., R. McLain, A. Milligan, and K. Harrell. "Socio-ecological Interactions in the National Forests and Grasslands of Central Oregon: Summary of Human Ecology Mapping Results." *Occasional Papers in Geography*, Publication No. 8, 12-2019.  
(<https://archives.pdx.edu/ds/psu/31028>)

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## PUBLICATIONS (continued)

### Articles

Milligan, A., D. Banis, and R. McLain. (In publication). Developing an Interactive Online Mapping and Survey Tool for Human Ecology Mapping: A Case Study of the Deschutes and Ochoco National Forests and Crooked River National Grassland.

### Books

Banis, D. and H. Shobe. (In publication-2021). *Upper Left Cities*: Sasquatch Books.

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## CONFERENCE PRESENTATIONS

### Oral Presentations

April 2019 - Emerging Professionals Career Panel. "Things I Wish I Knew Before My First GIS Job for Emerging Professionals." GIS In Action 2019, Portland, OR.

April 2019 - "A Case Study of Human Ecology Mapping in Central Oregon Forests: What Public Participation GIS data can tell us," GIS In Action 2019, Portland, OR.

March 2019 - "Human Ecology Mapping: Case Studies and Applications in National Forest Planning and Management." Society for Applied Anthropology-79<sup>th</sup> Annual Meeting, Portland, OR.

November 2018 - "What Human Ecology Mapping Data Can Tell Us: A Case Study from Forests in Central Oregon," US Forest Service GIS Day, Portland, OR.

April 2017 - "Lost Lake Boulderling Guide: Hand drawn basemap for web maps," GIS In Action 2017, Portland, OR.

### Poster Presentations

April 2019 - "A Case Study of Human Ecology Mapping in Central Oregon Forests: What Public Participation GIS data can tell us," GIS In Action 2019, Portland, OR. WINNER: 1<sup>st</sup> Place Student Poster Competition.

November 2018 - "What Human Ecology Mapping Data Can Tell Us: A Case Study from Forests in Central Oregon," US Forest Service GIS Day, Portland, OR.

### Workshop Presentations

March 15, 2019 - "Mount Hood Community Forest Values Mapping." Mazamas, USFS, PSU, and Outdoor Alliance. Hood River, OR.

September 2018 - Human Ecology Mapping in Central Oregon Forests. USFS, PNW Research Station, PSU and DNF, ONF, and CRNG rangers. Bend, OR.

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## HONORS AND AWARDS

William and Edith Rockie Geography Scholarship - \$500	6.2019
1 <sup>st</sup> Place Student Poster Presentation - GIS In Action 2019	4.2019
Gamma Theta Upsilon - International Geographic Honor Society	3.2019
Academic Excellence and Student Leadership Award	3.2019
Portland State University, Portland, OR	
Academic Excellence and Student Leadership Award	1.2019
Portland State University, Portland, OR	
Graduate Teaching Assistantship	9.2018
Portland State University, Portland, OR	

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## CERTIFICATIONS

- Certificate of Innovation in College Teaching, Portland State University, Graduated May 2019.
- Human Subjects Research, CITI Program, License 29845247, December 2018-2021
- Graduate Certificate of Geographic Information Systems, Portland State University, Awarded June 2018

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## LEADERSHIP

- President of Oregon URISA Emerging Professionals 2018-Present
- Representative Board Member - College of Liberal Arts and Sciences (CLAS) Collaborative (Interdisciplinary student group) - Portland State University - 2019
- President of PSU Chapter of ASPRS - 2018-2019
- Student Activities and Leadership Program (SALP) Student Leader - Portland State University - 2017-2019
- Theta Alpha - Chapter of Gamma Theta Upsilon - Portland State University 2019
- Board Member - FoodWaves, Non-Profit Educational Farm, 2018-Current

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## PROFESSIONAL ASSOCIATIONS

- American Association of Geographers - 2019-Present
- President of PSU Chapter of ASPRS - 2018-2019
- Web and Communications Officer of PSU Chapter of ASPRS - 2017-2018
- American Society for Photogrammetry and Remote Sensing (ASPRS) Member since 2016
- Oregon and SW Washington URISA

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## COMMUNITY INVOLVEMENT

- Emerging Professionals Mentorship Program Liaison - Sept 2019-June 2020
- Geography Mentor, Student of St. Mary's Academy - 2019
- Teaching Mentee, French American International School - 2018-2019
- Coordinator for Volunteers at GIS In Action 2019
- Social Ambassador - Geography Dept PSiloveU Fundraising Campaign Feb-Mar 2019. Total fundraised \$3,910.
- GIS In Action Volunteer - 2017, 2018, 2019
- Fundraising Committee - FoodWaves Annual Dinner - November 2018
- Humanitarian Relief Missing Maps Map-a-thon - 2018, 2019
- Event Coordinator for 2018 Portland Cartography Symposium
- Website creator/manager for 2018 Portland Cartography Symposium  
<https://portlandcartography.wixsite.com/2018symposium>