

COREY J. MARTZ

Esri Intern | University of Denver PhD Candidate

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EDUCATION

PhD	University of Denver, Geography	Expected June 2022
MA	University of Denver, Geography	June 2017
BA	University of Missouri, Geography (Geology Minor, GIS Certificate)	May 2012

RESEARCH INTERESTS

Children's Geographies; Community-Engaged Research; Engaging Youth in Research with GIS; Environmental Education; Photovoice; Qualitative GIS; Youth Relationships with Place/Nature

GIS INDUSTRY EXPERIENCE

Intern Esri, Louisville, CO	October 2021 - Present
<ul style="list-style-type: none">• Collaborated with solution engineers on the State and Local Government Team.• Delivered/supported technical solutions and demos with Esri software to strengthen and expand the GIS work of government customers across the Intermountain West.• Participated on the Social Science Collaborative advancing Esri's outreach and software capabilities to support social science research with GIS.	
GIS Intern City of Columbia, Columbia, MO	January 2012 - May 2012
<ul style="list-style-type: none">• Developed cartographic products to support work in the Public Works Department.• Collected, analyzed, and managed spatial data related to transportation infrastructure.	

TEACHING EXPERIENCE

Graduate Teaching Assistant University of Denver, Department of Geography & the Environment, Denver, CO	September 2015 - June 2021
<ul style="list-style-type: none">• Taught labs, guest lectured, contributed to developing labs, graded assignments, and prioritized undergraduate and graduate student learning across a range of courses in GIS, physical, and human geography.• Courses:	
Introduction to GIS	Fall 2019, Winter 2020, Spring 2021
Environmental/GIS Modeling	Spring 2021
Computer Cartography	Fall 2020, Winter 2021
Geographic Statistics	Winter 2021
GIS Database Design	Fall 2020
Remote Sensing	Winter 2020
Human Population	Fall 2019
Global Environmental Change: Climate Dynamics	Fall 2017, 2018
Global Environmental Change: Hydrology	Winter 2018, 2019

Global Environmental Change: Terrestrial Landforms	Spring 2018, 2019
Environmental Systems: Weather and Climate	Fall 2015, 2016
Environmental Systems: Hydrology	Winter 2016, 2017, Summer 2017, 2019, 2020
Environmental Systems: Landforms	Spring 2016, 2017

Camp Counselor June 2011 - Present

Cheley Colorado Camps, Estes Park, CO

- Directed approximately 15 staff and 60 high-school aged campers. Taught K-12 outdoor education. Led hiking and backpacking trips in and near Rocky Mountain National Park. Returned one week each August as a counselor at a camp for pediatric burn survivors.

• Positions:

Children’s Hospital Colorado Burn Camps Program	August 2013 - Present
Unit Director, Hiking/Backpacking Counselor	Summer 2011 - 2015
Outdoor Educator	Spring 2013, 2014, Fall 2014

Math Fellow December 2014 - June 2015

Noel Community Arts School, Denver, CO

- Taught small-group math lessons with middle school students.
- Developed lessons to support students to learn and reach grade level proficiencies.

Substitute Teacher September 2013 - April 2014

Columbia Public and Hallsville R-IV School Districts, Columbia, MO

- Taught as a substitute for teachers in a range of K-12 classroom settings, including elementary school, middle school, high school, special education, and tutoring.

English Teacher October 2012 - March 2013

Patumkongka School, Bangkok, Thailand

- Taught English as a foreign language with students at a public high school.
- Developed course materials to support students with a range of learning levels.
- Courses:
 - English with Native Speakers (introductory conversational English)
 - Variety English (advanced conversational English)
 - Essence English 2, 4, and 6 (reading and writing English)

RESEARCH EXPERIENCE

PhD Candidate, Dissertation Research September 2017 - Present

University of Denver, Department of Geography & the Environment

Advisor: Dr. Rebecca L. Powell

Goal: Engage youth to learn/use ArcGIS StoryMaps and ArcGIS Survey123 to create story maps combining locations, images, and narratives about relationships with nature, towards advancing qualitative GIS approaches in research with youth, understanding how/where youth relate with nature, and informing education, planning, and public health initiatives.

- Developed a mutually beneficial community partnership around research and program evaluation with an environmental education organization in Lafayette, CO.
- Conducted story map workshops, follow-up interviews, and qualitative GIS analysis.
- Led manuscript writing with co-authors.

Researcher, Child-Friendly Cities Research January 2021 - Present
University of Colorado Denver, Department of Geography & Environmental Sciences
Principal Investigator(s): Dr. Bryan Wee & Dr. Peter Anthamatten
Goal: Leverage mobile GIS apps such as ArcGIS Collector to engage children in gathering information about their relationships with place, informing the design of child-friendly cities.

- Facilitated a mutually beneficial community partnership in Lafayette, CO.
- Helped configure apps, support children to learn/use the apps, and write a manuscript.

Community-Engaged Fellow, Campus-City Partnerships June 2018 - June 2019
University of Denver, Center for Community Engagement to advance Scholarship and Learning
Principal Investigator(s): Dr. Cara Marie DiEnno
Goal: Amplify community voices in public policy and planning.

- Partnered with local government, non-profits, and youth and adult residents of Denver, CO in photovoice projects to photograph and document community issues.
- Part of team that presented results and conducted a focus group with city decision-makers to research impacts of photovoice and write a journal article.
- Served as a liaison between University of Denver, Metro Denver Nature Alliance, and U.S. Forest Service Denver Urban Field Station.
- Part of team that led university-wide bioblitz events to promote citizen science by engaging students to collect biodiversity data on campus using the iNaturalist app.

Master's Student, Thesis Research September 2015 - June 2017
University of Denver, Department of Geography & the Environment
Advisor: Dr. Rebecca L. Powell
Goal: Engage children to learn/use a mobile GIS application, Esri Snap2Map, to create story maps about their relationships with place in and beyond Denver.

- Partnered with community organization to inform their programming with children.
- Conducted story map workshops, follow-up interviews, and qualitative analysis.
- Led writing of journal articles with co-authors.

Research Intern, Behavior Mapping June 2016 - November 2016
Blue Lotus Consulting & Evaluation
Principal Investigator(s): Dr. Corrie Colvin Williams & Dr. Kelly Keena
Goal: Gather baseline data on park use to inform a community organization's efforts to improve access to nature for youth and families in Lafayette, CO.

- Conducted behavior mapping observations of park use across Lafayette, CO.

PEER-REVIEWED PUBLICATIONS

Martz, Corey J., Rebecca L. Powell, & Bryan Wee. (in press). The Impact of COVID-19 Lockdowns on Youth Relationships with Nature: A Socio-Spatial Perspective. *Children, Youth and Environments*.

Martz, Corey J., Rebecca L. Powell, & Bryan Wee. (2022). Exploring Relationality Among Children's Place Attachments in their Experiences of a New Place. *Geographical Review*. Advance online publication. <https://doi.org/10.1080/00167428.2022.2050372>

DiEnno, Cara, **Corey Martz**, Lauren Collins, & Mimiko Watanabe. (2021). The Exhibit and Beyond: Attendees, Collaborating Organizations, and Decision Makers Responding to a Photovoice Project. *Journal of Community Engagement and Higher Education*, 13(3), 1–15. <https://discovery.indstate.edu/jcehe/index.php/joce/article/view/649>

Martz, Corey J., Rebecca L. Powell, & Bryan Wee. (2020). Engaging Children to Voice their Sense of Place through Location-Based Story Making with Photo-Story Maps. *Children's Geographies*, 18(2), 148–161. <https://doi.org/10.1080/14733285.2019.1685073>

MANUSCRIPTS UNDER REVIEW

Martz, Corey J., Rebecca L. Powell, Bryan Wee, & Angela Myers. (submitted). Evaluating Environmental Education Programs Using a Qualitative Geographic Information Systems Approach. *Children, Youth and Environments*.

MANUSCRIPTS IN PREPARATION

Martz, Corey J. & Rebecca L. Powell, & Bryan Wee. Story Mapping Spatial Scales of Youth Relationships with Nature.

Wee, Bryan, et al., In Support of Child-Friendly Cities: Identifying and Applying Geospatial Technologies to Represent Children's Sense of Place.

RESEARCH REPORTS

Myers, Angela & **Corey Martz**. (2021). Nature Kids / Jóvenes de la Naturaleza Year 3 Program Report: June 2019 – May 2020. *Nature Kids / Jóvenes de la Naturaleza*.

DiEnno, Cara Marie, Lauren Collins, Mimiko Watanabe, & **Corey Martz**. (2019). Federal Boulevard Photovoice Project Final Report. *University of Denver Center for Community Engagement to advance Scholarship and Learning*.

Martz, Corey J. (2017). Urban Children's Experience of a Natural Place Outside of Denver. [Unpublished Master's Thesis]. *University of Denver*.

SKILLS

Research: Qualitative Methods (e.g., story maps, interviews, focus groups, observation, qualitative data analysis); Geographic Information Systems (GIS) Methods (e.g., story maps, mobile field data collection, spatial data analysis, qualitative GIS analysis)

Software: GIS Software (range of Esri products including ArcGIS Enterprise); Qualitative Analysis Software (Dedoose, MAXQDA, NVivo, QDA Miner); Statistical Software (R, JMP)

PROFESSIONAL AFFILIATIONS AND SERVICE

American Association of Geographers (AAG) Member	2016 - Present
University of Denver Sustainability Council Member	2015 - Present
Peer Reviewer for <i>GeoJournal</i>	2021
University of Denver Grand Challenges Urban Sustainability Cohort Member	2018 - 2021
Peer Reviewer for <i>The Northeastern Geographer</i>	2020
University of Denver Graduate Student Government Sustainability Liaison	2017 - 2018
University of Missouri Gamma Theta Upsilon Honor Society, President	2011 - 2012
University of Missouri Lambda Chi Alpha Fraternity, Active Member	2011 - 2012

CONFERENCE ATTENDANCE

AAG Annual Meeting	2017 - 2022
University of Denver Sustainability Conference	2022
North American Association for Environmental Education (NAAEE) Conference	2021
Esri User Conference	2021
RMLUI Western Places/Western Spaces Conference	2018, 2019, 2021
Colorado Association of Environmental Education Conference	2016, 2017
Esri GIS in Higher Education Summit	2016
Sustainable Denver Summit, City and County of Denver	2015

PRESENTATIONS

Paper Presentation, “Story Maps, COVID-19 Lockdowns, and Young People’s Relationships with Nature,” AAG Annual Meeting, February 2022.

Panel, “Students in Sustainability,” University of Denver Sustainability Conference, February 2022.

Poster Presentation, “The Impact of COVID-19 Lockdowns on Young People’s Relationships with Nature: A Socio-Spatial Perspective,” North American Association for Environmental Education Conference, October 2021.

Invited Talk, “Critical GIS,” University of Pennsylvania Undergraduate Urban Research Colloquium, April 2021.

Paper Presentation, “Qualitative GIS in a Pandemic: Challenges and Opportunities of Story Mapping with Youth Virtually During COVID-19 Stay-At-Home Orders,” AAG Annual Meeting, April 2021.

Paper Presentation, “Photo-Story Maps for Location-Based Story Making with Children: Opportunities and Challenges,” AAG Annual Meeting, April 2020 (cancelled).

Invited Talk, “Reflections from the Field,” DU Geography Colloquium, September 2019.

Poster Presentation, “Community Engagement through Photovoice: Understanding Community Strengths and Concerns in the Face of Urban Change,” AAG Annual Meeting, April 2019.

Guest Lecture, “Earthquakes,” DU Global Environmental Change: Terrestrial Landforms, April 2019.

Poster Presentation, “Engaging Children with Voice through Photo-Story Maps,” AAG Annual Meeting, April 2018.

Guest Lecture, “Earthquakes,” DU Global Environmental Change: Terrestrial Landforms, April 2018.

Paper Presentation, “Urban Children’s Experience of a Natural Place Outside of Denver,” AAG Annual Meeting, April 2017.

Invited Talk, “Reflections from the Field,” DU Geography Colloquium, September 2016.

Guest Lecture, “Igneous Rocks and Landforms,” DU Environmental Systems: Landforms, April 2016.

HONORS AND AWARDS

DU Dr. Laurance C. Herold Award, Outstanding Graduate Teaching in Geography	2021
DU Grand Challenges ACE Student Scholarship Grant	2020
Rocky Mountain URISA Scholarship	2019
DU CCESL Scholar Shop Student Grant	2019
DU Laurance C. Herold Fund for Student Field Research	2018, 2019
DU Graduate Studies Doctoral Fellowship Award	2017
DU Natural Sciences & Mathematics Excellence in Teaching Award, Nominee	2017
MU Department of Geography Jesse H. Wheeler Scholarship	2012
MU College of Arts and Sciences Thomas T. Strange Scholarship	2011
MU Department of Geography GeoEye Scholarship	2011
MU Department of Geography Walter Schroeder Award	2011

COMMUNITY SERVICE

Creating Ties Fundraising Dinner Committee Member	2019 - Present
Children's Hospital Colorado Burn Camps Program	

PROFESSIONAL REFERENCES

Dr. Rebecca L. Powell, Associate Professor
Department of Geography & the Environment
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