

DR. TYLER M. BARTON

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OVERVIEW

A 14-year career in emergency management has spanned disaster preparedness, mitigation, response, recovery, research, and national and international program implementation. A holistic understanding of the physical mechanisms and social impacts of disasters has been purposefully cultivated through a background in natural hazards research, strategic policy analysis, interagency collaboration, community planning, stakeholder engagement, and multi-cultural awareness. Dedicated to continual learning and growth, I actively seek opportunities to deepen my understanding of disaster resilience and climate adaptation, while deliberately applying insights and perspective from past experiences.

HIGHLIGHTS & EXPERTISE

- 6 years of operational experience in disaster recovery and response.
- Academic background provides comprehensive knowledge of current disaster resilience, risk reduction, and risk management theory.
- Regularly lead interagency coordination and collaboration to address unique and non-traditional disaster recovery challenges.
- International experience with mitigation program implementation.
- Experience supervising, managing, leading, and mentoring.

CORE COMPETENCIES

- Excellent verbal communication, writing, and synthesis skills
- Qualitative and quantitative data collection and interpretation
- Project management and oversight
- Tactical and strategic level thinking
- Multicultural awareness
- Trilingual fluency (English, French, Spanish)

PROFESSIONAL EXPERIENCE

Federal Emergency Management Agency (FEMA)

Denver, CO, USA

01/31/2021 – present

40+ hours per week, IC CORE Grade 13 Step 4

Program Analyst – Community Assistance (CA) Coordinator and Interagency Recovery Coordination (IRC) Specialist

Provided dedicated support to State, Local, and Tribal partners in FEMA Region 8 through efforts related to long term recovery and disaster recovery management.

- Advised Recovery Division management, senior leadership, and deployed FEMA teams on strategic considerations for the application of long-term disaster recovery programs and potential issues.
- Formerly deployed to over 10 Presidentially declared disasters, typically in a supervisory or program management role.
- Coordinated recovery efforts and communication with and between state, local, tribal, and territorial (SLTT) governments, working cross-functionally with both internal FEMA programs and external SLTT stakeholders to generate and ensure recovery objectives were met.
- Performed technical and analytical duties, developed detailed strategies, and maintained complex data in a variety of information platforms to support decision making in building, sustaining, and evaluating long-term recovery capabilities.
- Represented the agency at various workshops, conferences, and meetings with SLTT partners.
- Led and actively participated in multiple working groups, mostly related to climate change adaptation.

City and County of Denver Office of Emergency Management

Denver, CO, USA

02/18/2020 – present

0 – 8 hours per week

Emergency Preparedness Outreach Trainer (on call)

Created and delivered emergency preparedness training courses and outreach to members of the greater Denver, CO, community including individual residents, neighborhood organizations, community and faith-based groups, schools, and businesses.

- Developed course curriculums in both English and Spanish, often targeting the Latinx community.
- Organized, staffed, and represented the Denver Office of Emergency Management at local events such as preparedness fairs, community meetings, and other outreach activities.

University of Canterbury
Christchurch, New Zealand

02/01/2016 – 09/30/2020
40+ hours per week

Academic Researcher in Disaster Risk and Resilience

Investigated and actively participated in collaborative approaches to disaster risk management decision-making on the science-policy-practice interface at the local, regional, and national levels.

- Explored the underlying drivers of disaster risk within the interconnected natural, social, and economic environments, with a focus on under-served populations.
- Identified a distinct research problem, developed a timeline, and designed evaluative criteria.
- Published a peer-reviewed scientific article:
 - Barton, T. M., Beaven, S. J., Cradock-Henry, N. A., and Wilson, T. M. (2020) Knowledge sharing in interdisciplinary disaster risk management initiatives: cocreation insights and experience from New Zealand. *Ecology and Society* 25 (4):25. <https://doi.org/10.5751/ES-11928-250425>
- Presented and justified findings to subject matter experts in multiple international conferences.

Belloy Petroleum Consulting Inc.
Northern Alberta and Saskatchewan, Canada

12/2007 – 04/2014 (winters only)
80 – 90 hours per week

Project coordinator and well-site geologist

Trained, supervised, managed, and maintained a pool of ~20 geologists covering operations across 15 petroleum drilling rigs on frozen tundra. Prepared business case documentation to justify hiring and dismissal of personnel. Oversaw wireline logging measurements and interpreted logs, gas detection equipment, and analyzed drill cuttings to catalogue geological formations.

Goldbrook Ventures Inc.
Northern Quebec, Canada

06/15/2006 – 10/15/2007
70 hours per week

Mineral exploration geologist

Collected samples, logged core, and prospected for gold, nickel, platinum, and palladium in Arctic tundra sulphide deposits.

Rescan Environmental Services Ltd.
Northern British Columbia, Canada

06/15/2006 – 09/30/2006
70 hours per week

Environmental consulting geologist and team leader

Led one of two project teams in sulphide prospecting, rock characterization mapping, and Acid Rock Drainage potential assessment for holdings of NovaGold Resources Inc. in boreal forest environment. Synthesized lab results post field work.

VOLUNTEER EXPERIENCE

Christchurch City Council – Christchurch, New Zealand

02/07/2017 – 02/15/2020

Urban Search and Rescue (USAR) Deputy Team Leader

First responder with Category 1 training for International Search and Rescue Advisory Group (INSARAG) Assessment, Search and Rescue (ASR) Levels 1, 2, and 3.

- Voted by team members into successive Squad Leader and Deputy Team Leader positions.
- Supervised and managed a 35-member team during emergency response activities, including oversight and logistical coordination for the deployment of supplies, equipment, and personnel to incident command points and other appropriate sites.
- Trained in and taught others Incident Management System (IMS), Incident Command System (ICS), and Emergency Operations Center (EOC) frameworks and functions.
- Multiple activations and deployments (flood response, flood mitigation, mass casualty shooting), including public surveying and data collection.

United States Peace Corps – El Borbollón, San Miguel, El Salvador

07/11/2011 – 09/04/2013

Disaster Prevention and Mitigation Specialist

Implemented hazard mitigation projects with communities, local schools, and government agency representatives from El Salvador's Ministry of the Environment and Natural Resources specific to flooding in the Laguna del Jocotal (an internationally protected wetland) and volcanic hazards across the eastern half of the country.

- Organized and delivered earthquake preparedness drills with 2000+ students.

- Collaborated with local community leaders to create Emergency Action Plans and evacuation routes for schools and businesses.
- Organized, lead, and taught technical workshops and trainings for local disaster relief workers.
- Carried out hazard risk perception surveys of at-risk communities.
- Conducted geo-physical surveys for research projects on volcanic deformation and landslide triggers.
- Trained government park rangers and local school staff on project management and writing techniques to support their efforts in applying to humanitarian aid and international development grants.
- Highly involved in regional youth and community development efforts

EDUCATION

Ph.D. in Disaster Risk and Resilience – University of Canterbury, New Zealand 02/15/2016 – 08/15/2020

Thesis titled *Disaster Risk Management in Rural New Zealand*

Used qualitative interviews and geospatial assessments to examine the impacts and consequences of rural disasters in New Zealand and their implications world-wide.

- Identified the key drivers of disaster risk and resilience related to under-served populations in rural New Zealand.
- Mapped the institutional and social structures that inform, enable, and constrain disaster risk management decision-making.
- Analyzed how disaster risk management strategies and communication techniques can reduce, prepare for, and manage the risks to society and organizations from natural hazards.
- Identified opportunities to enhance effectiveness of rural disaster risk management using “co-creation” and collaborative risk reduction decision-making under uncertainty.

M.Sc. in “Social Geology” – Michigan Technological University, USA 09/15/2010 – 12/15/2015

Thesis titled *The Routine Disaster: A Case Study in El Salvador*

Merged hazard and social sciences to investigate underlying societal issues in the application of disaster risk reduction techniques and the culture of “aid dependence.”

- Studied risk reduction, resiliency building, and local capacity enhancing efforts in the face of extreme natural phenomena in El Salvador.
- Hydro-geological flood modeling software used for flood modeling and analysis of rivers (using HEC-RAS), a large watershed (using HEC-HMS), and groundwater / surface-water interactions (using MODFLOW).
- Peace Corps Masters International program

B.Sc. in Earth and Planetary Sciences – McGill University, Canada 09/15/2002 – 12/15/2005

SELECT INVITED SPEAKING ROLES

- Instructor for inaugural delivery of Emergency Management Institute (EMI) *Territorial Recovery Planning course* (Guam, 1-5 April 2024)
- Congressional briefing – *Partnerships to Build Resilience to Climate Risks* (25 August 2023)
- University guest lecturer:
 - Social Dimensions of Natural Hazards, Michigan Technological University (21 February 2023 and 2022)
 - International Context for Hazards and Disasters, Colorado University Denver (20 October 2022)
- Montana Recovery Resources Symposium – *Local Government Recovery Planning* (25 January 2023)
- US Geological Survey’s Geologic Hazards Science Center seminar series – *Perspectives on long-term recovery* (25 January 2022)
- Instructor for EMI course *Integrated Emergency Management* (Utah, 15-19 August 2022)

WORKSHOPS AND SHORT COURSES

- *Frontline Leader Impact*, Center for Creative Leadership, April – May 2024
- *Data Analytics for Decision Making*, Daniels College of Business, August 2023

- *Natural Hazards Center Workshop and Researchers Meetings* (presenter, moderator, and panelist), July 2021, 2022, and 2023.
- *High Impact Presentations*, Dale Carnegie Professional Development Training, April 2023
- *Community-based Resilience*, June 2018
- *Unpacking Complexity: The Social Science of Emergencies, Disasters, and Resilience*, May 2018
- *Pressure Cooker Event*, The World Bank's Understanding Risk Forum, May 2018
- *Science in a post-truth era*, August 2017
- *Global experiences on managing risk – rethinking New Zealand's policy approach*, June 2017
- *FEMA Volcanic Crisis Awareness (AWR-233)*, December 2012

ADDITIONAL CONSIDERATIONS

- Co-developer of the 2022-2026 FEMA Strategic Plan Goal 2.2 *Build a Climate Resilient Nation*
- Recipient of multiple scholarships and grants totaling over \$100,000 USD, including:
 - Mensa International's Education and Research Foundation scholarship (June 2018)
 - NASA Honorarium (May 2018)
- Other teaching experience:
 - 6 university courses
 - 3 years regularly leading USAR team trainings
 - Multiple youth development programs including Boy Scouts
- Regularly attend professional development and leadership workshops and short courses.

DIVERSITY, EQUITY, INCLUSION, AND ACCESSIBILITY (D.E.I.A.) STATEMENT

Committed to DEIA principles, I recognize that underserved communities and specific identity groups often bear disproportionate impacts from natural hazards, exacerbating existing inequities. With a firm belief in the value of diverse perspectives and experiences, I actively promote an environment where individuals from all backgrounds feel valued, respected, and empowered to contribute their unique talents and drive to successful outcomes. The purposeful development of DEIA efforts is essential for achieving organizational excellence and resilience.

REFERENCES

Brooke Conner, P.E.
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DETAILED RESUME AND ADDITIONAL REFERENCES AVAILABLE UPON REQUEST