

MICHAEL HOWARD, AICP



August 8, 2024

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University of Oregon
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EDUCATION

University of Oregon

Master of Community and Regional Planning (MCRP)

Emphasis in housing, land use, and community development

Eugene, OR

December 2002

University of Minnesota, Twin Cities

Bachelor of Arts, Political Science

Emphasis in participatory democracy

Minneapolis, MN

June 1996

PROFESSIONAL CERTIFICATIONS & ACCREDITATIONS

Association of State Floodplain Managers, Certified Floodplain Manager

Leadership in Energy and Environmental Design Accredited Professional

2014-2024

The Northwest Water & Energy Education Institute

Certified Sustainable Building Advisor

2010-Present

American Planning Association

American Institute of Certified Planners (#021782)

2007-Present

RELEVANT EMPLOYMENT HISTORY

Institute for Policy Research and Engagement, University of Oregon

Program Director, Oregon Partnership for Disaster Resilience (OPDR)

Eugene, OR

Sep 2020-present

Serve as Principal Investigator on OPDR projects. Serve the UO as a technical expert on natural hazard planning and community resilience. Manage local, regional, state, and federal agency and organizational partnerships. Work closely with Institute for Policy Research and Engagement (IPRE) Management to oversee development of program funding and research projects. Provide leadership and vision to develop, implement and sustain OPDR projects and initiatives. Accountable for day-to-day program operations, budget oversight, project development, faculty/staff management and evaluation, student mentorship, grant writing, quarterly reporting, research methods and coordination with federal, state, and local partners. Provide faculty support to other IPRE service-learning programs as needed.

Institute for Policy Research and Engagement, University of Oregon

Assistant Program Director, Oregon Partnership for Disaster Resilience (OPDR)

Eugene, OR

Apr 2015-Aug 2020

Responsible for co-managing the IPRE's Oregon Partnership for Disaster Resilience (OPDR) program along with the OPDR Director. Responsible for budget oversight, project development, research methodology development; project management; coordination with partners; providing guidance to staff and graduate student employees; coordination of outreach activities; grant writing, reporting and budget management; and project and staff evaluation. Provide staff support to other IPRE-service learning programs as needed.

Community Service Center, University of Oregon
Project Coordinator

Eugene, OR
Sept 2010-Apr 2015

Worked closely with the Oregon Partnership for Disaster Resilience's (OPDR) Director to develop research projects, conduct research, and oversee staff and graduate student employees. Responsible for research methodology development; project management; coordination with partners; providing guidance to staff and graduate student employees; coordination of outreach activities; grant writing, reporting and budget management; and project and staff evaluation. Provided staff support to the Community Planning Workshop and other Community Service Center service-learning programs as needed. Assisted with project management and development, graduate student mentorship and CSC program administration.

Satre Associates, P.C.
Planner

Eugene, OR
Apr 2005-Jan 2010

Prepared development applications; managed long-range planning projects; developed and delivered public presentations; facilitated client and public outreach meetings; provided contract zoning administration to local jurisdictions; responded to RFP/RFQ postings; prepared client proposals and project budgets. Consulting Planner for the City of Halsey (Linn County).

City of Medford
Planner

Eugene, OR
Sept 2003-Apr 2005

Administered city zoning code in the management and processing of land-use applications; conducted pre-application review, staff report preparation, public hearing representations and final application approval; coordinated referral comments with other city departments/divisions as well as outside agencies; staffed public information desk; responded both orally and in writing to public inquiries and research requests. Staff representative for the Medford and Jackson County bicycle committees.

Midpeninsula Regional Open Space District
GIS Specialist/Analyst

Los Altos, CA
Mar 2003-Sept 2003

Responsible for spatial analysis for trails and regional open space planning. Verified district boundaries, native & invasive plant, and species habitat through use of GPS technology.

Stanford Prevention Research Center
GIS Specialist/Analyst

Palo Alto, CA
May 2003-Sept 2003

Responsible for spatial analysis for study of heart disease risk associated with neighborhood design.

Peninsula Habitat for Humanity
Special Projects Coordinator

Menlo Park, CA
Mar 1997-Sept 2000

Responsible for in-kind procurement. Assisted with project site management for 36-unit affordable housing project in East Palo Alto, volunteer coordination, training, and donor engagement.

COURSES TAUGHT

PPPM 410 – Real World Eugene

Role: Instructor of Record

Winter 2023

PPPM 410 – Real World Eugene

Role: Co-Instructor

Fall 2021

PPPM 620 – Planning and Management Research Skills

Role: Instructor of Record

Winter 2022-Present

PPPM 625/626 – Community Planning Workshop

Role: Teaching and Project Support

Winter/Spring 2012-Present

PUBLICATIONS

Richard Margerum, Robert Parker, Bethany Steiner, Aniko Drlik-Muehleck, Joshua Bruce, and Michael Howard. (2022). "Evaluating the Oregon Experiential Learning Model: Findings from Clients, Students, and Alumni." Journal of Planning Education and Research, 0(0). <https://doi.org/10.1177/0739456X221104013>

AWARDS

UO Sustainability Awards: Innovation and Impact Award
Recipient

May 2024

SELECTED SPONSORED PROJECT ACTIVITY 2010 TO PRESENT

Lincoln County Natural Hazard Mitigation Plan Update **July 2024-December 2025**
Principle Investigator *Oregon Department of Emergency Management, \$76,872*

Project to update the multi-jurisdictional NHMP for Lincoln County, including the cities of Depoe Bay, Lincoln City, Newport, Siletz, Toledo, Waldport, Yachats and special districts of Central Lincoln PUD, Lincoln County School Districts, and Seal Rock Water District.

Marion County Curry County Population and Infrastructure Vulnerability Assessment **Aug. 2024-Dec. 2026**
Principal Investigator. *Marion County, \$240,000*

Project to assess, evaluate, test, and deploy area specific emergency evacuation plans (including shelter in place options) for priority areas in Marion County. Secondary benefits of this project include informing local stakeholders in the effected evacuation areas about mitigation efforts, (e.g., fuels reduction projects), critical infrastructure impacts, and emergency and evacuation preparedness steps.

Curry County Population and Infrastructure Vulnerability Assessment **Oct. 2024-Sept. 2025**
Principal Investigator. *Oregon Department of Emergency Management, \$125,000*

Project to assess, evaluate, test, and deploy area specific emergency evacuation plans (including shelter in place options) for priority areas in Curry County. Secondary benefits of this project include informing local stakeholders in the effected evacuation areas about mitigation efforts, (e.g., fuels reduction projects), critical infrastructure impacts, and emergency and evacuation preparedness steps.

Hood River County Natural Hazard Mitigation Plan and Community Wildfire Protection Plan Update **December 2023-December 2024**
Principal Investigator *Hood River County, \$102,137*

Project to update the Hood River County NHMP and CWPP (this is a two-year FEMA funded project) including the cities of Cascade Locks and Hood River and the Port of Cascade Locks and Port of Hood River. All fire districts within the County, the Bureau of Land Management, the US Forest Service, and the Oregon Department of Forestry are partners to the CWPP.

Capacity Building for Rural Action towards Climate and Hazard Resilience **September 2023-October 2025**
Principal Investigator *FEMA Risk MAP, \$130,000*

Project to conduct a resilience assessment of rural and frontier communities east of the Cascades including tribal nations to increase community resilience particularly to climate related hazards.

Cow Creek Band of Umpqua Tribe of Indians Natural Hazard Mitigation Plan Update **April 2023-March 2024**
Principal Investigator *Cow Creek Band of Umpqua Tribe of Indians, \$35,000*

Project to update the Cow Creek Band of Umpqua Tribe of Indians Natural Hazard Mitigation Plan.

Polk County Natural Hazard Mitigation Plan Update **March 2023-March 2024**
Principal Investigator *Department of Land Conservation and Development, \$46,000*

Project to update the Polk County Natural Hazard Mitigation Plan including the cities of Dallas, Fallas City, Independence, and Monmouth.

Lincoln County Population and Infrastructure Vulnerability Assessment **February 2023-September 2024**
Principal Investigator *Oregon Department of Emergency Management, \$145,000*

Project to assess, evaluate, test, and deploy area specific emergency evacuation plans (including shelter in place options) for priority areas in Lincoln County. Secondary benefits of this project include informing local stakeholders in the effected evacuation areas about mitigation efforts, (e.g., fuels reduction projects), critical infrastructure impacts, and emergency and evacuation preparedness steps.

Grow back better: Social and ecological factors shaping wildfire recovery on nonindustrial private forestlands

Co-Principal Investigator

February 2023-January 2026

US Department of the Interior, Joint Fire Science Program, \$500,000

Project to pursue social and ecological research to advance understanding of how to foster resilient recovery from wildfire in nonindustrial private forestlands.

Coos Bay Estuary Management Plan Code Adoption

Principal Investigator

October 2022-September 2023

Department of Land Conservation and Development, \$40,000

Project to develop a post-acknowledgement plan amendment for the adoption of updates to the Coos Bay Estuary Management Plan including Coos County, Coos Bay, and North Ben. Project involved extensive spatial analysis.

Tillamook Estuaries Partnership

Interpretive Center Feasibility Assessment (Phase II)

Principal Investigator

July 2022-December 2022

Tillamook Estuaries Partnership, \$25,000

Project to develop a feasibility assessment for an interpretive center that will include office and lab space for the Tillamook Estuaries Partnership.

Clackamas County Natural Hazard Mitigation Plan Update

Principal Investigator

May 2022-September 2024

Oregon Department of Emergency Management, \$102,000

Project to update the Clackamas County NHMP including the cities of Canby, Estacada, Gladstone, Happy Valley, Lake Oswego, Milwaukie, Molalla, Oregon City, Sandy, West Linn, Wilsonville and the special districts of Clackamas Fire District, Clackamas River Water, Colton Water District, and Oak Lodge Water Services.

Jackson County Community Response Smoke Management Plan

Principal Investigator

May 2022-March 2023

City of Medford, \$35,000

Project to develop a Community Response Smoke Management Plan for Jackson County to provide an exemption to state requirements for smoke incursion during wildfire and controlled burning events.

Climate Change Adaptation Framework Public Scoping for the State of Oregon

Principle Investigator

March 2022 – June 2023

Department of Land Conservation and Development, \$160,000

This statewide assessment was designed to summarize public input on how regional projected climate impacts will affect peoples' well-being, livelihood, and communities. Public engagement was conducted through informal interviews, regional workshops, and a statewide survey. This assessment resulted in a report that was presented to the Oregon Legislature and aimed to identify and support climate adaptation strategies that will have meaningful and tangible benefits to Oregonian's day to day lives. This assessment was done in collaboration with the Department and Land Conservation and Development and their partners across multiple universities, research institutes, and private agencies.

Douglas County Comprehensive Risk Assessment

Principal Investigator

February 2022-January 2023

Douglas County, \$35,000

Project to update the Douglas County Risk Analysis as required by OEM; provide baseline information for the Public Health HVA; organize all risk assessment information into a format that will serve hazard planning needs for the next five years.

UO Matthew Knight Arena Monitoring: Phase X (2021)

Principal Investigator

December 2021-June 2022

University of Oregon, \$36,000

Project to evaluate and conduct parking monitoring and surveying of event attendees to meet the conditional use permit requirements for the Matt Knight Arena.

Lower-McKenzie Floodplain Assessment

Principal Investigator

September 2021-August 2023

FEMA Risk MAP, \$200,000

Project to map, assess, and plan floodplain restoration and flood risk management strategies in the lower McKenzie River valley. Generally, the study area extends from Leaburg Dam to the confluence of the McKenzie and Willamette Rivers.

Large-Scale CoPe: The Cascadia Coastlines and People Hazards Research Hub

Key Personnel

August 2021-July 2026

National Science Foundation, \$657,055

Project to assess the impacts of integrating diverse community assets, networks, learning tools, flexibility, agency, and values into resilience-building activities. In each of the Hub collaboratories we pursued four community adaptive capacity research goals. Depth of engagement by goal and collaboratory balanced community priorities and provision of comparative insights to advance social science research.

NHMP Updates for Jackson, Josephine and Lane Counties, City of Medford, and University of Oregon

Principal Investigator

July 2021-March 2025

Federal Emergency Management Agency, \$285,680

Project to update the UO, City of Medford, and Lane (including Coburg, Creswell, Dunes City, Florence, Lowell, Oakridge, Veneta, West Fir, Blachly-Lane Electric Co-op. Consumers Power Inc, and Emerald Peoples Utility District), Josephine (including Cave Junction and Grants Pass), and Jackson County (including Ashland, Butte Falls, Central Point, Eagle Point, Gold Hill, Jacksonville, Phoenix, Rogue River, Shady Cove, Talent, Jackson County Fire District #3, Jackson County Fire District #5, and Medford Water) NHMPs.

Yaquina Bay Estuary Management Plan Update

Principal Investigator

June 2021-July 2023

Willamette Partnership, \$69,006

Project to update of the Yaquina Bay Estuary Management Plan, Goal 16 element of the Comprehensive Plan.

Community Wildfire Protection Plan Updates for Clackamas and Lincoln Counties

Principal Investigator

June 2021-June 2024

Federal Emergency Management Agency, \$156,078

Project to update the Clackamas and Lincoln County CWPPs. All fire districts within the counties, the Bureau of Land Management, the US Forest Service, and the Oregon Department of Forestry are partners to the CWPP.

Oregon Resilience Collaboratives Network (ORCNet) Phase I

Co-Principal Investigator

March 2021-June 2024

Federal Emergency Management Agency, \$20,000

Project to create and coordinate ongoing collaboration of the Collaborate Oregon Recovery Network (COReNet). The network provides the capacity-building mechanism needed to support rapid recovery across the whole of Western Oregon following the unprecedented Labor Day fires of 2020. The primary outcome of this project is the charting (mapping) and documentation of the web of active collaborations and collaborators to better understand, leverage, and document this recovery effort.

UO Design and Capital Construction Assessment and Improvement Process

Key Personnel

January 2021-June 2022

University of Oregon, \$10,000

Project to develop a tool to assess UO Design and Capital Construction processes.

Lane County Hazard Mitigation and COVID Recovery

Implementation Strategic Planning

Principal Investigator

December 2020-October 2024

Federal Emergency Management Agency, \$80,530

Project to (1) provide technical assistance and training to support the Lane Regional Resilience Collaboratives (LRRC) efforts to implement mitigation projects, and (2) develop a disaster recovery framework that leveraged existing risk assessment and mitigation strategy information contained in Lane County's NHMP.

ETO Solar + Microgrid Feasibility

Key Personnel

September 2020-March 2022

Energy Trust of Oregon, Inc., \$85,000

Project to develop a Social Vulnerability Index framework, piloted a solar plus storage feasibility assessment for Josephine County and developed a handbook for conducting future feasibility assessments for developing solar plus storage microgrids.

Lane County Hazard Evacuation Planning

Principal Investigator

October 2020-July 2023

Federal Emergency Management Agency, \$147,812

Project to assess, evaluate, test, and deploy area specific emergency evacuation plans (including shelter in place options) for priority areas in Lane County. Secondary benefits of this project include informing local stakeholders in the effected evacuation areas about mitigation efforts, (e.g., fuels reduction projects), critical infrastructure impacts, and emergency and evacuation preparedness steps.

FEMA Risk MAP Administration

Principal Investigator

October 2020-September 2022

FEMA Risk MAP, \$20,000

Project to provide technical assistance and support FEMA Risk MAP efforts in Oregon.

ETO Solar + Microgrid Hazard Mitigation Research

Co-Principal Investigator

September 2020-January 2021

Energy Trust of Oregon, Inc., \$25,000

Project to research, strategy development, and grant writing capacity and support and build upon a pilot project in Hood River County and a cost benefit assessment project conducted by the UO Oregon Consulting Group.

Veneta Community Economic Development Strategy (CEDS) Update

Principal Investigator

July-December 2020

City of Veneta, \$10,000

Project to update an economic development strategy for the City of Veneta.

- AAMPO Active Transportation Plan (Public Engagement Component)** **July 2020-December 2021**
Principal Investigator *Oregon Cascades West Council of Government, \$30,000*
 Project to develop and implement a public engagement program for the update of the Albany Area Bike and Pedestrian plan.
- Deschutes County Wildfire Engagement Plan** **July-September 2020**
Principal Investigator *Deschutes County, \$5,000*
 Project to provide Deschutes County with technical support and assistance in researching and developing a community involvement plan that supported the development of a robust update to Deschutes County's Comprehensive Plan and development code.
- FEMA CTP: Coos Bay Climate Change Vulnerability and Adaptation Plan** **July 2020-September 2022**
Principal Investigator *Federal Emergency Management Agency, \$150,000*
 Project to develop a climate change vulnerability assessment for coastal hazards, identify ecological, social, and economic characteristics of well-functioning watersheds likely to be impacted by sea level rise, characterized the aspects of resiliency most critical to maintaining those functions, and develop a climate change adaptation strategy that describes priority actions including a process for setting adaptation goals with other stakeholders, assessing adaptation options aimed at reducing impacts, and improving resiliency.
- FEMA Risk MAP Administration** **April 2020-September 2021**
Principal Investigator *FEMA Risk MAP, \$10,000*
 Project to provide technical assistance and support FEMA Risk MAP efforts in Oregon.
- Hwy 99 Transit Feasibility** **November 2019-April 2021**
Principal Investigator *Oregon Cascades West Council of Government, \$60,000*
 Project to conduct a transit corridor study to assess transit demand along the Highway 99 W corridor between Junction City and McMinnville, Oregon.
- Oregon21 Car-Free Access to Recreation** **June 2019-February 2020**
Co-Principal Investigator *Travel Oregon, \$20,000*
 Project to conduct an assessment and develop an action plan to promote car-free transportation options to access recreation areas during the IAATF Track and Field Championships in 2021.
- Lincoln County Natural Hazard Mitigation Plan Update** **June 2019-January 2021**
Principal Investigator *Oregon Department of Land Conservation and Development, \$45,000*
 Project to update the multi-jurisdictional NHMP for Lincoln County, including the cities of Depoe Bay, Lincoln City, Newport, Siletz, Toledo, Waldport, Yachats and special districts of Central Lincoln PUD, Lincoln County School District, and Seal Rock Water District.
- Yamhill County Natural Hazard Mitigation Plan Update** **January 2019-August 2021**
Principal Investigator *Oregon Department of Emergency Management, \$32,000*
 Project to update the multi-jurisdictional NHMP for Yamhill County. Including the cities of Amity, Carlton, Dayton, McMinnville, Newberg, Sheridan, Willamina, and Yamhill.
- Lyons Rural Fire Protection District Natural Hazard Mitigation Plan Development** **January 2019-June 2020**
Principal Investigator *Oregon Department of Emergency Management, \$10,000*
 Project to develop the single-jurisdiction NHMP for the Lyons Rural Fire Protection District.
- UO Transportation Services Parking Lot Utilization Pilot Project** **January 2019-June**
Principal Investigator *University of Oregon, \$5,000*
 Project to develop a technical report that details a methodology to collect parking lot utilization data and includes recommendations to improve data collection and an analysis of existing parking trends.
- UO Matthew Knight Arena Monitoring: Phase IX (2019)** **December 2018-June 2019**
Principal Investigator *University of Oregon, \$31,500*
 Project to conduct parking monitoring and surveying of event attendees to meet the conditional use permit requirements for the Matt Knight Arena.

<p>Low Impact Development Strategies in the McKenzie River Basin <i>Co-Principal Investigator</i> Project to develop an assessment of land use in the McKenzie Basin and recommended low impact development strategies to protect water quality.</p>	<p>December 2018-June 2019 <i>Eugene Water and Electric Board, \$25,000</i></p>
<p>Coos Bay Estuary Management Plan Code and Policy Review Phase 2 <i>Principal Investigator</i> Project to develop a framework to allow project data (i.e., the Coos Estuary Map Atlas and the previous NSC-funded Communities, Lands & Waterways: Data Source, and community findings) to be incorporated into the CBEMP.</p>	<p>December 2018-June 2019 <i>Coos County, \$12,000</i></p>
<p>Coos Bay Estuary Management Plan Code and Policy Review Phase 1 <i>Principal Investigator</i> Project to incorporate the data and products included in the Lands & Waterway Data Source and Map Atlas into the CBEMP along with reformatting the estuary implementing language in the local comprehensive plans and development codes.</p>	<p>November 2018-April 2019 <i>Oregon Department of State Lands, \$29,150</i></p>
<p>FEMA Risk MAP Administration <i>Key Personnel</i> Project to provide technical assistance and support FEMA Risk MAP efforts in Oregon.</p>	<p>October 2018-September 2019 <i>FEMA Risk MAP, \$50,000</i></p>
<p>FEMA Cooperating Technical Partnership Mitigation Implementation <i>Key Personnel</i> Project to identify the factors related to governance, capacity, perception, and policies that support and inhibit Oregon coastal communities from mitigating critical facilities at risk from natural hazards.</p>	<p>September 2018-February 2021 <i>FEMA Risk MAP, \$250,000</i></p>
<p>Lowell Parks Master Plan <i>Co-Principal Investigator</i> Project to update the Lowell Parks Master Plan and Parks and Recreation Element of their Comprehensive Plan.</p>	<p>May 2018-March 2020 <i>City of Lowell, \$43,268</i></p>
<p>DLCD NHMP Updates for Hood River and Gilliam Counties (PDM 17) <i>Not listed</i> Project to update the multi-jurisdictional NHMPs for Hood River (including Cascade Locks, Hood River, Port of Cascade Locks, and Port of Hood River) and Gilliam (including Arlington, Condon, Lonerock) counties.</p>	<p>February 2018-December 2018 <i>Department of Land Conservation and Development, \$32,669</i></p>
<p>Eugene Water & Electric Board Ratepayer Survey <i>Co-Principal Investigator</i> Project to develop and administer a random-sample survey of EWEB ratepayers to understand ratepayer perceptions regarding funding drinking source water protection activities.</p>	<p>January-December 2018 <i>Eugene Water & Electric Board, \$20,000</i></p>
<p>Willamette Source Water Protection Plan Survey <i>Co-Principal Investigator</i> Project to develop and administer a survey of public water providers in the Willamette River Basin. The project was exploring the possibility of a basinwide source water protection plan and was funded by the Meyer Memorial Trust.</p>	<p>January-December 2018 <i>Carpe Diem West, \$20,000</i></p>
<p>UO Matthew Knight Arena Monitoring: Phase VIII (2018) <i>Key Personnel</i> Project to conduct parking monitoring and surveying of event attendees to meet the conditional use permit requirements for the Matt Knight Arena.</p>	<p>December 2017-June 2018 <i>University of Oregon, \$32,000</i></p>
<p>Cascades West Economic Development District Regional Economic Vulnerability Mitigation Planning Project <i>Key Personnel</i> Project to develop and test a new regional framework for engaging businesses in economic risk reduction and recovery planning. The project identified new ways to link, leverage, and align regional assets. Deliverables included: (1) An enhanced, pre-event regional economic risk and preparedness assessment, (2) Increased business capacity and engagement across the CWEDD region, (3) A priority set of achievable, regionally relevant, economic risk-reduction and pre-disaster recovery planning projects, (4) A project implementation strategy grounded in the pioneering Strategic Doing™ model, developed at Purdue University, and (5) A project evaluation report.</p>	<p>October 2017-September 2019 <i>Oregon Department of Emergency Management, \$249,756</i></p>

- Central Oregon Regional Emergency Services Center Feasibility Assessment** **July-December 2017**
Key Personnel *Deschutes County, \$27,500*
 Project to develop a preliminary assessment of the viability of a conceptual regional emergency services training and coordination center in Central Oregon.
- Tillamook Bay Comprehensive Conservation and Management Plan and Interpretive Center Feasibility Assessment (Phase 1)** **June 2017-April 2020**
Co-Principal Investigator *Tillamook Estuaries Partnership, \$77,800*
 Project to update the Comprehensive Conservation & Management Plan (CCMP) covering all estuaries in Tillamook County. This document, required by the EPA for participation in the National Estuaries Program, focuses on sustainable management practices that will enhance environmental and economic vitality in Tillamook County. IPRE also developed a feasibility assessment for an interpretive center that will include office and lab space for the Tillamook Estuaries Partnership.
- Lane County Local Emergency Planning Committee (LEPC) Phase II: Extremely Hazardous Substances Emergency Planning** **April-September 2017**
Key Personnel *City of Eugene \$10,000*
 Project to develop the coordination and assembly of the final LEPC plan.
- Veneta Northeast Employment Center Zoning Review** **February-July 2017**
Key Personnel *City of Veneta \$27,500*
 Project to conduct a market assessment and a zoning code review for the City of Veneta that focused on the city's Northeast Employment Center. The project resulted in a set of recommendations for changes to the city's zoning ordinance and comprehensive plan map.
- Planners4Health Policy Assessment** **February-May 2017**
Key Personnel *Oregon American Planning Association, \$5,000*
 Project to provide the Oregon Chapter of the American Planning Association (OAPA) with an evaluation of plans and programs that emphasize the public health outcomes of planning practices and policies. The scan resulted in a set of best practices for better linking the fields of public health and planning in Oregon.
- An Estuarine and Shoreland Use and Zoning Integrated Assessment for the Coos Estuary** **November 2016-October 2018**
Key Personnel *South Slough National Estuarine Research Reserve, \$99,282*
 Project to develop a land use analysis/map atlas of the Coos Bay Estuary and adjacent lands including conducting workshops for the Economy, Environment, and Socio-Cultural communities. Results of the project may be used to inform a future update of the Coos Bay Estuary Management Plan, Goal 16/17 elements of the Coos County Comprehensive Plan.
- Oregon Risk Map administration** **October 2016-Septmeber 2017**
Co-Principal Investigator *Oregon Department of Land Conservation and Development, \$35,660*
 Project to provide technical assistance and support FEMA Risk MAP efforts in Oregon
- University of Oregon Strategic Energy Management Plan** **June-December 2016**
Key Personnel *University of Oregon, \$12,430*
 Project to develop an organization and governance plan for the University of Oregon as a preliminary phase to developing a Strategic Energy Management Plan.
- Coos Bay Estuary Management Plan Assessment** **June-December 2016**
Co-Principal Investigator *Coos County, \$9,000*
 Project to evaluate the Coos Bay Estuary Management Plan (Goal 16 element of their Comprehensive Plan) and make recommendations regarding their land use inventory, legal compliance, and administrative implementation.
- Umatilla County Community Needs and Readiness Assessment** **June-December 2016**
Not listed *Oregon American Planning Association, \$35,000*
 Project to develop a Community Needs and Readiness Assessment for Umatilla County to increase access to healthy food and physical activity.

Clackamas County Local Natural Hazard Mitigation Plan Update (PDM 16)	March 2016-August 2019
<i>Not listed</i>	<i>Oregon Department of Emergency Management, \$50,000</i>
Project to update multi-jurisdictional NHMP for Clackamas County, including cities of Canby, Estacada, Gladstone, Happy Valley, Johnson City, Lake Oswego, Milwaukie, Molalla, Oregon City, Sandy, West Linn, Wilsonville and the special districts of Clackamas Fire District and Clackamas River Water.	
The National Center for Campus Public Safety Fusion Center Institutional Survey	September 2015-September 2017
<i>Not listed</i>	<i>National Center for Campus Public Safety, \$87,319</i>
Project to develop and implement a survey of campus safety officials to identify current levels of awareness, communication, and engagement between IHEs, fusion centers, and FBI campus liaison agents.	
PDM'15 Region 4 County Plan Updates for Jackson and Josephine Counties	May 2015-October 2018
<i>Co-Principal Investigator</i>	<i>Oregon Department of Emergency Management, \$44,300</i>
Project to update the Jackson County (including Ashland, Butte Falls, Eagle Point, Gold Hill, Jacksonville, Phoenix, Rogue River, Shady Cove, Talent) and Josephine County (including Cave Junction and Grants Pass) multijurisdictional NHMPs	
Tillamook County Natural Hazards Code and Program Review	October 2014-September 2016
<i>Co-Principal Investigator</i>	<i>Federal Emergency Management Agency, \$30,000</i>
Project to assist Tillamook County with a review and analysis of their development code to ensure consistency with NHMP update.	
Curry Community Health Continuity of Operations Plan	2016
<i>Co-Principal Investigator</i>	<i>Curry Community Health, \$6,500</i>
Project to develop a COOP for CCH that focused on how the foundation would continue to operate in the aftermath of a disaster.	
Silverton Community Survey	2016
<i>Key Personnel</i>	<i>City of Silverton, \$23,285</i>
Project to conduct a community survey for the City of Silverton that examines residents' thoughts related to quality of life, job creation, city services, and local government.	
Deschutes County Natural Hazard Development Code Review	2015-2016
<i>Not Listed</i>	<i>Deschutes County, \$16,863</i>
Project to review and analyze the Comprehensive Plan's Section 3.5 to ensure consistency with the NHMP Update and local policies.	
City of Veneta Economic Opportunities Analysis	2014
<i>Not Listed</i>	<i>City of Veneta, \$25,000</i>
Project to develop a Goal 9 compliant Economic Opportunities Analysis and an economic development strategy for the City of Veneta.	
Oregon Natural Hazards Mitigation Plan, Support Tasks	2014
<i>Not Listed</i>	<i>Department of Land Conservation and Development, \$12,000</i>
Project to update the State Natural Hazard Mitigation Plan elements related to funding and local natural hazard mitigation planning, and to provide information, advice, and guidance as necessary on other elements required to update the 2012 Oregon NHMP.	
Lincoln County Risk Map. Pilot Risk MAP implementation report	2013
<i>Not Listed</i>	<i>Federal Emergency Management Agency, \$20,000</i>
Project to develop an approach to integrate FEMA's Risk Report for Lincoln County. The report describes how Lincoln County, along with State and Federal partners, may integrate the data portions of Risk MAP into meaningful planning projects, ordinances, and policies.	
Regions 2 and 3 Local Natural Hazard Mitigation Plan Updates (PDM 14)	2015-2016
<i>Key Personnel</i>	<i>Oregon Department of Emergency Management, \$333,333</i>
Project to update the Washington, Multnomah, Linn, Benton, Polk, and Marion County with updates to their multi-jurisdictional NHMPs).	
Regions 1, 3, and 4 Local Natural Hazard Mitigation Plan Updates (PDM 13)	2013-2016
<i>Not Listed</i>	<i>Oregon Emergency Management, \$250,001</i>
Project to update the Curry, Coos, Douglas, and Lincoln County and the Cities of Eugene/Springfield and Corvallis stand-alone and multi-jurisdictional NHMPs.	

Confederated Tribes of the Warm Springs Natural Mitigation Plan Update (PDM 13)	2014-2015
<i>Not Listed</i>	<i>Confederated Tribes of Warm Springs, \$20,650</i>
Project to update the Confederated Tribes of the Warm Springs Indians tribal NHMP.	
Community Readiness Assessment for Wave Energy on the South Coast	2014
<i>Key Personnel</i>	<i>Oregon Wave Energy Trust, \$17,775</i>
Project to assess regional readiness for development of wave energy.	
PDM'12: Statewide NHMP Training, Technical Assistance and Multi-Region Oregon County Natural Hazards Mitigation Plans Updates	2012-2014
<i>Key Personnel</i>	<i>Oregon Department of Emergency Management, \$533,334</i>
Project to update the multi-jurisdictional NHMPs for Wallowa, Union, Baker, Grant, Harney, Malheur, Lake, Jefferson, and Deschutes counties.	
RVTD Community Perceptions of Highway 99 Transit Enhancements	2013
<i>Not Listed</i>	
Project to conduct interviews, focus groups, and surveys to gauge local perception of Highway 99 transit enhancements, specifically development of a bus rapid transit system in Jackson County	
City of Madras Goal 7 Update	2013
<i>Not Listed</i>	
Project to update the Madras Comprehensive Plan natural hazards chapter in compliance with State Planning Goal 7.	
The Ford Family Foundation Socio-Economic Resilience Forum	2013
<i>Not Listed</i>	<i>The Ford Family Foundation, \$21,000</i>
Project to prepare, administer, and facilitated a day-long forum on socio-economic resilience for coastal communities and administer a survey and compile resources for use in the forum.	
Lane Livability Consortium Baseline Assessment of Regional Plans	2012-2013
<i>Not Listed</i>	<i>Lane Council of Governments, \$76,000</i>
Project to develop an assessment of the Eugene-Springfield region's planning documents relating to the core areas of economic development, community health, housing, and transportation. The assessment's purpose is to improve access and understanding by agency staff, policy makers and public and to identify gaps and opportunities useful in leveraging resources for implementation.	
Eugene/Springfield Climate and Vulnerability Assessment	2012
<i>Not Listed</i>	<i>City of Eugene, \$15,000</i>
Project to develop a tool to assess the adaptive capacity and vulnerability of local systems to natural hazards and long-term changes in climate and the price of fossil fuel.	
Bioenergy Facility Siting Guide	2012
<i>Not Listed</i>	
Project to analyze permitting requirements for bioenergy facilities and prepare a guidebook for local governments and developers.	
Douglas County Comprehensive Risk Assessment	2012
<i>Not Listed</i>	<i>Douglas County, OR, \$20,000</i>
Project to update the 2008 Douglas County Risk Analysis as required by OEM; provide baseline information for the Public Health HVA; organize all risk assessment information into a format that will serve hazard planning needs for the next five years.	
Jackson County Natural Hazard Mitigation Plan Update	2011-2012
<i>Not Listed</i>	<i>Oregon Emergency Management, \$33,900</i>
Project to update the Jackson County multi-jurisdictional NHMP.	
Mid-Columbia Gorge Local Natural Hazard Mitigation Plans (PDM 11)	2011-2012
<i>Not Listed</i>	<i>Oregon Emergency Management, \$215,981</i>
Project to update NHMPs for Clackamas, Hood River, Wasco, Sherman, Gilliam, Wheeler, Morrow, and Umatilla counties.	

Oregon Natural Hazards Mitigation Plan Maintenance **2010-2012**
Not Listed *Oregon Emergency Management, \$750,000*
 Project to update the Oregon Enhanced Natural Hazard Mitigation plan.

Southwest Counties Post-Disaster Recovery Plan **2009-2010**
Not Listed *Douglas County, OR, \$242,631*
 Project to develop long-term post catastrophic–disaster recovery plans for Coos, Curry Douglas, and Lane counties.

INTERNAL SERVICE AFFILIATIONS

Creating a Cultural Program for Tsunami Education and Wayfinding in Seaside, Oregon, Ann Moorhead, Clark Honors College,
 Committee Member Winter 2023

Like a Good Neighbor, Stay Over There: Implications of Walking and Biking Accessibility to Eugene Open Spaces during COVID-19, Corrie Parrish, MCRP Candidate
 Committee Member Spring 2020

Comprehensive Planning on Oregon’s Southern Coast, Emerson Hoagland, MCRP Candidate
 Committee Member Spring 2020

Campus Commute Comparison: The Impacts of Campus Transportation Planning on Mode Choice. Justin Peterson, MCRP Candidate
 Committee Member Spring 20218

EXTERNAL SERVICE AFFILIATIONS

Oregon Interagency Hazard Mitigation Team
 Member 2010-Present

Oregon Department of Emergency Management: Hazard Mitigation Assistance
 Grant Reviewer 2022, 2023, 2024

Oregon Department of Emergency Management: NHMP-CWPP Integration Workgroup
 Member 2023

North American Alliance of Hazards and Disaster Research Institutes
 Member Representative 2021-Present

Pure Water Partners
 Member 2020-Present

Oregon Wildfire Risk Explorer Development
 Advising Member 2016-2019

Oregon Department of Forestry Community Assistant Grant
 Grant Reviewer 2015

Friendly Area Neighbors
 Board Member 2010-2012

Haitian Sustainable Development Foundation
 Member 2009-2010

Camas Educational Network
 Board Member 2007-2013

City of Medford Bicycle and Pedestrian Committee
 Member 2003-2005

University of Oregon Sustainable Business Symposium

Co-Director

2001-2002

SELECTED PRESENTATIONS & LECTURES 2011 - PRESENT

Oregon American Planning Association Conference*Blazing Trails: Integrating Wildfire and Hazard Mitigation*

October 2024

Climate Change: Take the Social Temperature

October 2023

Oregon/Washington American Planning Association Conference*Pathways to Coastal Hazards Resilience Planning in WA and Oregon*

October 2020

Earthquake Engineering Research Institute Annual Meeting*Oregon Tackles Cascadia: Acting Locally*

March 2017

Oregon American Planning Association Conference*Deschutes County Natural Hazards Goal 7 Plan and Code Review*

May 2015

Putting Goal 7 to Work

May 2014

Oregon American Planning Association Skills Workshop*Natural Hazards Resilience Planning*

May 2015

Oregon Department of Emergency Management: Oregon Prepared Conference*Natural Hazard Mitigation Planning in Oregon*

April 2015

Natural Hazard Mitigation Planning in Oregon

April 2014

Oregon Emergency Management Association*Natural Hazard Mitigation Planning in Oregon*

October 2013

Oregon Health Authority: 3rd Annual Tribal Preparedness Forum*Natural Hazards Mitigation Planning for Tribal Governments*

April 2013

Oregon Planning Institute Conference*Natural Hazard Mitigation Planning in Oregon*

September 2012

Oregon Emergency Management Association Annual Conference*Comprehensive Risk Assessment*

October 2011

Oregon County Planning Director's Meeting*Natural Hazards Mitigation and Comprehensive Plan Integration*

June 2011

ADDITIONAL TRAINING

Natural Hazards Center*Annual Natural Hazards Workshop*

Broomfield, CO

2015, 2023

Federal Emergency Management Agency (FEMA)*Annual Mitigation Summit*

Seattle, WA

2011, 2012, 2013, 2015, 2018, 2021, 2023, 2025

Oregon Department of Emergency Management: Oregon Prepared Conference*Oregon Prepared Conference*

April 2024

Oregon American Planning Association Conference*Annual Conference (not presenting)*

Eugene, OR

2019

Federal Emergency Management Agency (FEMA)*G318: Preparing and Reviewing Local Natural Hazard Mitigation Plans*

Bend, OR

2014

Association of State Floodplain Managers and FEMA*L-273: Managing Floodplain Development through the NFIP*

Eugene, OR

2014