

Jiwnath Ghimire, Ph.D.

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EDUCATION

2018	PhD	Urban and Regional Planning	University of Hawaii at Manoa, Hawaii Dissertation topic: <i>From Science to Planning: Negotiating Climate Change Adaptation in Land Use Planning in Quy Nhon City, Vietnam.</i>
2009	MURP	Urban and Regional Planning	Department of Urban and Regional Planning, University of Hawaii at Manoa, Hawaii
2009	Graduate Certificate	Disaster Management and Humanitarian Assistance	Department of Urban and Regional Planning, University of Hawaii at Manoa, Hawaii
2004	MA	Rural Development	Department of Rural Development, Tribhuvan University, Kathmandu, Nepal

PROFESSIONAL EXPERIENCE

Aug 2022- Aug 2023	Assistant Professor of Community and Regional Planning, Iowa State University
Feb 2019 – Jul 2022	Assistant Specialist, University of Hawaii
Jan 2010 – Dec 2018	Research Assistant, University of Hawaii
Dec 2004 – Jul 2007	Program Officer, Forum for Protection of Public Interest (NGO), Nepal

PEER-REVIEWED PUBLICATIONS

Under Review

Diem-My Thi Nguyen, **Jiwnath Ghimire**, Thi-Nhung Do, Van-Trong Giang, Kim-Chi Vu. Pre-disaster flood inundation risk assessment of UNESCO World Heritage Sites using Remote Sensing and GIS-MCDM in Hoi An City, Vietnam.

Published Journal Articles

- 2023 Thi-Nhung Do, Diem-My Thi Nguyen, **Jiwnath Ghimire**, Kim-Chi Vu, Lam-Phuong Do Dang, Sy-Liem Pham, Van-Manh Pham. Assessing Surface Water Pollution in Hanoi, Vietnam Using Remote Sensing and Machine Learning Algorithms. *Environmental Science and Pollution Research* 30, 82230-82247. <https://doi.org/10.1007/s11356-023-28127-2>
- 2023 **Jiwnath Ghimire**, Ratna Mani Nepal, Julia Crowley, Dipesh Ghimire, and Shyam Guragain. Vulnerabilities and Risk Perceptions of Contracting COVID-19 among Nepali Migrant Workers. *Social Sciences and Humanities Open* 7 (1). <https://doi.org/10.1016/j.ssaho.2023.100486>.
- 2023 Karl Kim, Eric Yamashita, **Jiwnath Ghimire**, Patricia Bye, and Deb Matherly. Knowledge to Action: Resilience Planning Among State and Local Transportation Agencies in the United States. *Journal of Emergency Management* 21 (1). <https://doi.org/10.5055/jem.0715>.
- 2022 Dipesh Kumar Ghimire, Prakash Gautam, Shyam Kumar Karki, **Jiwnath Ghimire** and Isao Takagi. Small Business and Livelihood: A Study of Pashupatinath UNESCO Heritage Site of Nepal. *Sustainability* 15(1). <https://doi.org/10.3390/su15010612>.
- 2022 **Jiwnath Ghimire**, Ratna Mani Nepal, Julia Crowley, Dipesh Ghimire, and Shyam Guragain. Social and Economic Challenges of Returning Nepalese Migrant Workers during Initial COVID-19 National Lockdowns. *Journal of Asian and African Studies* 0(0). <https://doi.org/10.1177/00219096221141359>.
- 2021 Karl Kim, Roberto Porro, **Jiwnath Ghimire**, Lillian Ramirez Durand, Ruperto Chaparro Serrano, Bernardo Gonzalez, and Eric Yamashita. Equity, Participation and Planning for Recovery in Puerto Rico. *Journal of Emergency Management* 19(8). <https://doi.org/10.5055/jem.0656>.
- 2021 Karl Kim, Eric Yamashita, and **Jiwnath Ghimire**. Pausing the Pandemic: Understanding and Managing Traveler and Community Spread of COVID-19 in Hawaii. *Transportation Research Record* 0(0): 03611981211058428. <https://doi.org/10.1177/03611981211058428>.
- 2021 Karl Kim, Rashed Chowdhury, Pradip Pant, Eric Yamashita, and **Jiwnath Ghimire**. Assessment of ENSO Risks to Support Transportation Resilience. *Journal of Disaster Science* 25, 100196. <https://doi.org/10.1016/j.pdisas.2021.100196>.
- 2021 Karl Kim, **Jiwnath Ghimire**, Pradip Pant, and Eric Yamashita. Bikeshare Safety: Risk Assessment and Management. *Transportation Research Interdisciplinary Perspectives* 9:100276. <https://doi.org/10.1016/j.trip.2020.100276>.
- 2021 Karl Kim, Eric Yamashita, and **Jiwnath Ghimire**. Factors Associated with Differences in Initial Pandemic Preparedness and Response: Findings from a Nationwide Survey in the United States. *Transportation Research Interdisciplinary Perspectives* 11:100430. <https://doi.org/10.1016/j.trip.2021.100430>.

- 2020 Karl Kim, Brian Wolshon, Pradip Pant, Eric Yamashita, and **Jiwnath Ghimire**. Assessment of Evacuation Training Needs: Targeting Instruction to Meet the Requirements of Local Communities and Agencies. *Journal of Emergency Management* 18 (6): 475-498. <http://doi.org/10.5055/jem.2020.0518>.
- 2019 Karl Kim, **Jiwnath Ghimire**, Pradip Pant, and Eric Yamashita. Self-Reported Handheld Device Use While Driving. *Accident Analysis and Prevention* 125: 106-115. <https://doi.org/10.1016/j.aap.2019.01.032>.
- 2019 Karl Kim, Pradip Pant, Eric Yamashita, and **Jiwnath Ghimire**. Analysis of Transportation Disruptions from Recent Flooding and Volcanic Disasters in Hawai'i. *Transportation Research Record* 2673.2: 194-208. <https://doi.org/10.1177/0361198118825460>.
- 2017 Karl Kim, Kimberly Burnett, and **Jiwnath Ghimire**. Integrating Fast Feedback and GIS to Plan for Important Agricultural Land Designations in Kauai County, Hawaii. *Journal of Land Use Science* 12.5: 375-390. <https://doi.org/10.1080/1747423X.2017.1331272>.
- 2015 Karl Kim, Kimberly Burnett, and **Jiwnath Ghimire**. Assessing the Potential for Food and Energy Self-Sufficiency on the Island of Kauai, Hawaii. *Food Policy* 54: 44-51. <https://doi.org/10.1016/j.foodpol.2015.04.009>.
- 2014 Karl Kim, Eric Yamashita, Pradip Pant, and **Jiwnath Ghimire**. Sustaining Seat Belt Use in a High-Use State. *Transportation Research Record* 2425.1: 32-40. <https://doi.org/10.3141/2425-05>.
- 2013 Karl Kim, Eric Yamashita, **Jiwnath Ghimire**, James Burke, Lydia Morikawa, and LeeAnna Kobayashi. Learning from Crisis: Transit Evacuation in Honolulu, Hawaii, After Tsunami Warnings. *Transportation Research Record* 2376.1: 56-62. <https://doi.org/10.3141/2376-07>.

Published Book Chapters and Reports

- 2022 Lily Bui, **Jiwnath Ghimire**, Eric Yamashita, and Karl Kim. Multi-Hazard Planning for Access and Functional Needs in the U.S. Territories and Hawaii. *Natural Hazards Center Public Health Grant Report Series*, 22. Boulder, CO: Natural Hazards Center, University of Colorado Boulder. <https://hazards.colorado.edu/public-health-disaster-research/multi-hazard-planning-for-access-and-functional-needs-in-the-u-s-island-territories> .
- 2018 **Jiwnath Ghimire**, Kim Chi Vu and Hang Nguyen Thi Thuy. Resilience Concepts and Planning Realities: How Quy Nhon is Becoming a Resilient City by Integrating Climate Change Adaptation into Master Plans? In Y. Yamagata & A. Sharifi (Eds.), *Resilience-Oriented Urban Planning: Theoretical and Empirical Insights* (pp. 129-146). Cham: Springer International Publishing. https://doi.org/10.1007/978-3-319-75798-8_7.

Conference Papers

- 2023 **Jiwnath Ghimire** and Ayodele Fadoju. Build Back Better: Finding Synergies between Disaster Recovery and Climate Actions in Iowa. Association of Collegiate Schools of Planning 63rd Annual Conference, Chicago, October 19-21.
- 2023 **Jiwnath Ghimire**. 'Buy land away from the river' – Experience and Perceptions of Flood Vulnerabilities among Riverbank Residents in Kathmandu, Nepal. 51st Urban Affairs Annual Meeting Conference, Nashville, Tennessee, April 26-29.
- 2022 **Jiwnath Ghimire**. Mitigating Flood through Land Use Planning in Kathmandu Valley, Nepal: Environmental, Social, and Institutional Challenges. Association of Collegiate Schools of Planning 62nd Annual Conference, Toronto, November 3-5.
- 2022 Karl Kim, Eric Yamashita, **Jiwnath Ghimire**, Patricia Bye, and Deb Matherly. Knowledge to Action: Resilience Planning Among State and Local Transportation Agencies in the United States. 101st TRB Annual Meeting, Washington DC, January 9-13.
- 2021 **Jiwnath Ghimire**, Ratna Mani Nepal, and Shyam Guragain. Cursed by Monsoon: Flooding and Landslide Management in Nepal. 16th APRU Multi-Hazards Symposium 2021. Association of Pacific Rim Universities (Virtual), November 24-25.
- 2021 **Jiwnath Ghimire**, Ratna Mani Nepal, Dipesh Ghimire, and Shyam Guragain. Worsening Economic and Social Challenges of Nepali Migrant Workers during COVID-19. Association of Collegiate Schools of Planning 61th Annual Conference (Virtual), October 7-8 and 21-23.
- 2021 Karl Kim, Eric Yamashita, and **Jiwnath Ghimire**. Factors Associated with Differences in Pandemic Preparedness and Responses: Findings from a Nationwide Survey in the United States. 100th TRB Annual Meeting (Virtual), January 1-31.
- 2021 Karl Kim, Genesis Leong, Eric Yamashita, and **Jiwnath Ghimire**. Impacts of COVID-19 Travel Restrictions on Paratransit Users in Honolulu, Hawaii. 100th TRB Annual Meeting (Virtual), January 1-31.
- 2021 Karl Kim, Eric Yamashita, and **Jiwnath Ghimire**. Pausing the Pandemic: Understanding and Managing Traveler and Community Spread of COVID-19 in Hawaii. 100th TRB Annual Meeting (Virtual), January 1-31.
- 2020 Kim, Karl Kim, **Jiwnath Ghimre**, Pradip Pant, and Eric Yamashita. Bikeshare and Safety: Risk Assessment and Management. 99th TRB Annual Meeting, Washington DC, January 12-16.
- 2019 **Jiwnath Ghimire**. From Climate Science to Planning: Negotiating Climate Change Adaptation in Land Use Planning in Quy Nhon City, Vietnam. Association of

- Collegiate Schools of Planning 59th Annual Conference, Greenville, South Carolina, October 23-27.
- 2019 Karl Kim, Pradip Pant, Eric Yamashita, and **Jiwnath Ghimire**. Analysis of Transportation Disruption from Recent Flooding and Volcanic Disasters in Hawaii. 98th TRB Annual Meeting, Washington DC, January 13-17.
- 2018 Karl Kim, **Jiwnath Ghimire**, Pradip Pant, and Eric Yamashita. Self-Reported Handheld Device Use While Driving. 97th TRB Annual Meeting, Washington DC, January 7-11.
- 2017 **Jiwnath Ghimire**. Integrating GIS and ComMIT to Identify Social and Structural Vulnerabilities to Tsunami in South Central Coast of Vietnam. Pacific Risk Management Ohana (PRiMO) Conference 2017, Honolulu, Hawaii March 20-23.
- 2017 Karl Kim, Russel Uyeno, Pradip Pant, **Jiwnath Ghimire**. Drone and Traffic Safety: Preliminary Assessment. 96th TRB Annual Meeting, Washington DC, January 8-12.
- 2016 **Jiwnath Ghimire**. Translating Climate Change Knowledge to Land Use Planning: Addressing Challenges in Quy Nhon City, Central Vietnam. Association of Collegiate Schools of Planning 56th Annual Conference, Portland, Oregon, November 3-6.
- 2016 **Jiwnath Ghimire**. Vulnerability Assessment of Tsunamis along the Central Coast of Vietnam. 46th Urban Affairs Association Annual Meeting Conference, San Diego, California, March 16-19.
- 2015 **Jiwnath Ghimire**. Alternative Approach of Exposure and Vulnerability Assessment for Land Use Planning – a Case Study of Quy Nhon City of Central Vietnam. Association of Collegiate Schools of Planning 55th Annual Conference, Houston, Texas, October 22-25.
- 2014 Karl Kim, Pradip Pant, Eric Yamashita, and **Jiwnath Ghimire**. Sustaining Seat Belt Use In A High Use State. The Transportation Research Board (TRB) 93rd Annual Meeting, Washington DC, January 12-16.
- 2014 Karl Kim, Owen Shieh, Eric Yamashita, and **Jiwnath Ghimire**. Enhanced Preparedness for Tornadic Thunderstorms: Critical Considerations for Surface Transportation Managers. The Transportation Research Board (TRB) 93rd Annual Meeting, Washington DC, January 12-16.
- 2013 Karl Kim, Eric Yamashita, **Jiwnath Ghimire**, James Burke, Lydia Morikawa, and LeeAnna Kobayashi. Learning from Crisis: Transit Evacuation in Honolulu, Hawaii, After Tsunami Warnings. The Transportation Research Board (TRB) 92nd Annual Meeting, Washington DC, January 13-17.
- 2013 Karl Kim, Pradip Pant, Eric Yamashita, **Jiwnath Ghimire**, and Made I. Brunner. The Spatial Criticality of Transportation Risks from Sea Level Rise, Storm Surge and Tsunami Hazards in Honolulu”, Transportation Research Board (TRB) 92nd Annual Meeting, Washington DC, January 13-17.

Roundtables, Panels, Public Lectures, Workshops, and Seminars

Public Lectures

2023	American Planning Association, Iowa Chapter Student Innovation Center, Iowa State University, IA, USA (Mar 24)	Lecture: Finding Synergies between Disaster Recovery and Climate Actions: Lessons from Pre-Disaster Recovery Planning Practices
2023	College of Design, Iowa State University, IA, USA (Feb 24)	Research Presentation: I + E Cohort 2022-24 Presentation on Climate Smart Disaster Recovery.
2022	Institute for Design Research and Outreach (IDRO), College of Design, Iowa State University, IA, USA (Nov 11)	Seminar: Manifestation of Flooding and Land-Use Connections: A Case Study of Kathmandu – IDRO Friday Seminar Series.
2015	Science-Policy Interaction for Climate Change Adaptation in Vietnam: Experiences from Central and Local Levels of Governance (Feb 6)	A Joint Symposium on Urbanization and Urban Planning Asia, University of Hawaii at Manoa and Tongji University, Shanghai. East-West Center, Honolulu, Hawaii.

Roundtables and Panels

2023	2023 Iowa Homeland Security Conference, Ankeny FFA Enrichment Center, Ankeny, Iowa (Oct 11 -13)	Panel Presentation: Planning to Recovery from Disaster
2023	Center for Nepal and Asian Studies, Tribhuvan University, Kathmandu, Nepal (Jul 31)	Panel presentation: Rural Municipal Planning, Development Pressure, and Mounting Climate Threats: Stories from Sarkegad Rural Municipality of Humla District, Nepal
2022	5th World Planning School Congress; 16th Asian Planning Schools Association Congress, Bali, Indonesia (Aug 29 to Sep 1)	Roundtable: Introducing Indonesian Urban Studies Association (IUSA): A Global Planning Association to Foster the Growth of Indonesian Urban Development.

RESEARCH AND TEACHING

Courses Taught

2023	Making Resilient Environments (CRP 550/ ENV S 550)
2023	Sustainable Communities (CRP 484 & 584 / ENV S 484)
2023	Planning Methods Studio (CRP 301)
2022-2023	Environmental Planning (CRP 293)
2014 - 2022	GIS for Community Planning (PLAN 473)
2019 - 2022	Hazards and Resilience (PLAN 414)
2020	Information Systems for Disaster Management and Humanitarian Assistance (PLAN 673)
2018 - 2021	Interdisciplinary Seminar on Disaster Management and Humanitarian Assistance (PLAN 670)

Student Mentoring and Advising

2023	Faculty mentor, National Conference on Undergraduate Research, University of Wisconsin – Eau Claire, Wisconsin, April 13-15.	Role: mentoring undergraduate students to develop a paper and presentation for a conference on themes of water issues in Iowa.
2022-23	Faculty Advisor, Department of Community and Regional Planning, Iowa State University	Role: Advise graduate and undergraduate students on their coursework, research design, and degree completion pathways.
2023	Faculty organizer, <i>Creators of Tomorrow</i> Event, College of Design, Iowa State University	Role: Design and organize a planning activity to engage high school students from different parts of Iowa about their perception of the future (April 21).
2023	Faculty mentor for poster presentation, Department of Community and Regional Planning, Iowa State University	Role: Mentoring CRP 291 (Fall 2022) and CRP 484 (Spring 2023) students to prepare and submit poster presentations to Ecologies of Care Exhibition, <i>Ignite</i> Innovation Showcase (May 5-12, Student Innovation Center)
2022	Faculty mentor, Iowa State University Undergraduate Honors	Role: mentoring undergraduate students to design and administer research on environmental issues in Iowa and Midwest (CRP 293 - Environmental Planning, one student).

Research Grants

2023-24	College of Design BNIM Regenerative Design Challenge: Co- Creating Communities of Climate Resilience - Lessons Learned for Regenerative Design	College of Design, Iowa State University (\$10,000) (Co-PI with Dr. Ellee Stapleton, Dr. Alenka Poplin, and Dr. Andrea Wheeler)
2022	Special Call for Proposal: Strengthening Community Resilience in U.S. Territories	Natural Hazards Center, University of Colorado at Boulder (\$49,000) (Co-PI with Dr. Lily Bui, Mr. Eric Yamashita and Dr. Karl Kim)
2021	Special Call: Research in U.S. Territories – Sharing During Disasters: Learning From Islands Preliminary Findings and Initial Implications for Action	Natural Hazards Center, University of Colorado at Boulder (\$25,000) (Co-PI with Dr. Karl Kim and Mr. Eric Yamashita)
2020	CONVERGE COVID-19 Working Groups for Public Health and Social Sciences Research – Working Group: COVID-19 and Migrant Workers in Nepal	CONVERGE, Natural Hazards Center, University of Colorado at Boulder (\$1,000) (PI)
2019	College of Social Sciences Travel Funds for Professional Development in Research	College of Social Science, University of Hawaii at Manoa (\$2,117)
2015	Graduate Fellowship Fund	Research Cooperation of University of Hawaii (\$6,750)
2015	Travel Award for Professional Development and Research	University of Hawaii at Manoa College of Social Sciences (\$2,000)
2014	Research Award for Dissertation Field Research	East-West Center (\$3,000)

Scholarships/Fellowships

2022-2024	Innovation + Entrepreneur Scholar	College of Design, Iowa State University
2014, 2015, 2018	Achievement Scholarship	Department of Urban and Regional Planning, University of Hawaii at Manoa
2013	College of Social Sciences Scholarship	College of Social Science, University of Hawaii at Manoa
2009	Asia Pacific Homeland Security Summit Fellowship	Asia Pacific Homeland Security Summit, Honolulu, Hawaii

2009	Distinguish Service Award	East-West Center, Honolulu, Hawaii
2007	Asian Development Bank Degree Fellowship	East-West Center, Honolulu, Hawaii

OUTREACH, EXHIBITION, and SERVICES

Editorial Service

2019-2023	Assistant Editor	Transportation Research Interdisciplinary Perspective https://www.journals.elsevier.com/transportation-research-interdisciplinary-perspectives/
2021	Guest Co-Editor	Forest and Society https://journal.unhas.ac.id/index.php/fs/index (Special Issue – Flood Governance in the Asia-Pacific: Risk, Politics and Resilience)

Advisor

2022-23	Periodic Planning of Sarkegad Rural Municipality, Humla District, Karnali Province, Nepal. Center for Nepal and Asia Studies, Tribhuvan University, Kathmandu, Nepal	Advise on community engagement, municipal profile building, urban growth prospects, and environmental problems in the Municipality. Develop and implement climate change impact evaluation studies in the Municipality.
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Committees

2023-24	Association of Collegiate Schools of Planning (ACSP) Student Travel Award Selection Committee	
2023-24	Association of Collegiate Schools of Planning (ACSP) Ed McClure Award for the Best Master Student Paper Selection Committee	
2023	Member, College of Design (CoD) Lecture and Exhibitions Committee, Iowa State University	

Exhibitions

2023	Ecologies of Care Exhibition, Iowa State University Ignite Innovation Showcase	Call for student submissions for innovative design and art works, select the student submissions for exhibition, design and arrange logistics of the exhibition, work with other CoD I + E scholars to organize the exhibition (May 5-12).
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Community Service

2023-2024	Advisor	Nepali Student Association at Iowa State University, Ames, Iowa.
2019-2023	Member	Non-Resident Nepali Association USA.
2019-2023	Board of Director	ASTA-JA USA, Sustainable Natural Resources for Community Development, Honolulu, Hawaii (An NGO, 501(c)(3) organization)
2015-2016	Vice-President	Society of Nepalese in Hawaii (SNEHA), Honolulu, Hawaii (An NGO, 501(c)(3) organization)
2011-2014	Secretary	Society of Nepalese in Hawaii (SNEHA), Honolulu, Hawaii (An NGO, 501(c)(3) organization)
2009-2010	Co-Chair	East-West Center Environmental Sustainability Task Force, East-West Center, Honolulu, Hawaii
2008-2009	Sustainability Coordinator	East-West Center Participant Association, East-West Center, Honolulu Hawaii.

TRAINING and MEMBERSHIPS

Memberships in Professional/Scholarly Organizations

2016-2023	Member	Association of Collegiate Schools of Planning
2018-2023	Member	American Planning Association
2016-2023	Member	Urban Affair Association

Trainer

2016	Subject Matter Expert (SME) for Vietnam, US Navy Pacific Partnership Subject Matter Expert Exchange Program.	Design and deliver training on flood mitigation in urban land use planning. Da Nang City, July 18-22.
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2012	Trainer	A training course on “Planning for Coastal Community Resilience through Flood Risk Reduction”. Da Nang City, Vietnam, March 28-30 organized by University of Hawaii at Manoa and Hanoi Architecture University.
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Training Received

2021	Applying the Quality Matter Rubric (APPQMR)	Quality Matters (qualitymatters.org), April 7.
2018	Community Planning for Disaster Recovery (AWR – 356)	National Disaster Preparedness Training Center, University of Hawaii at Manoa, June 7.
2015	Community Model Interface for Tsunami (ComMIT)	National Disaster Preparedness Training Center, University of Hawaii at Manoa, January 5-9.
2013	Natural Disaster Awareness for Community Leaders (AWR – 310)	National Disaster Preparedness Training Center, University of Hawaii at Manoa, September 30.
2012	Social Media for Natural Disaster Response and Recovery (PER – 304)	National Disaster Preparedness Training Center, University of Hawaii at Manoa, January 4.

LANGUAGE

Advance: English, Nepali, Hindi

Basic: Vietnamese