

# *11<sup>th</sup> DPRI Award*

for Outstanding Contributions  
in Research and Education

研究教育業績賞

**Prof. Irasema Alcántara-Ayala**

Institute of Geography National Autonomous  
University of Mexico (UNAM)

選考経緯・業績紹介・講演資料

March. 18, 2026



**DPRI**

Disaster Prevention Research Institute,  
Kyoto University



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# **Congratulatory Address to Prof. Irasema Alcántara-Ayala for the DPRI Award**

**Subhajyoti Samaddar**

Associate Professor

Disaster Prevention Research Institute, Kyoto University

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It is my great pleasure to extend my heartfelt congratulations to Professor Irasema Alcántara-Ayala on the occasion of her well-deserved DPRI Award.

I first came to know Prof. Alcántara-Ayala around 2015, when she met Professor Tatano in Mexico. She was subsequently invited as a guest faculty member to our laboratory at the Disaster Prevention Research Institute. At that time, I was deeply impressed. She was remarkably young, yet already a full professor and internationally recognized scholar in disaster risk management. Her reputation extended not only within Mexico but across the globe.

Over the years, through continued interaction, I came to appreciate not only her academic excellence but also her distinctive intellectual perspective. What truly sets Prof. Alcántara-Ayala apart is her strong and consistent advocacy of a fundamental idea: disasters are not merely physical phenomena; they are socially constructed. While hazards may originate in nature, disasters emerge from social vulnerability, inequality, governance systems, and historical processes.

She has been among the leading voices emphasizing that understanding disaster requires more than advances in physical or engineering sciences. It demands interdisciplinary engagement and serious attention to social dimensions. In particular, she has persistently highlighted the importance of amplifying the voices of the Global South—communities whose experiences and perspectives are often underrepresented in global disaster risk governance.

In the context of climate change and increasing global risks, her work reminds us that technological solutions alone are insufficient. We must integrate human-centered approaches and interdisciplinary knowledge, ensuring that science serves society in meaningful and equitable ways. Through her scholarship, advocacy, and international leadership, she has significantly shaped contemporary thinking in integrated disaster risk management.

On this distinguished occasion, I sincerely congratulate Professor Alcántara-Ayala on receiving the DPRI Award. I look forward to her continued leadership and contributions toward building safer and more resilient societies.

## 第 11 回 DPRI Award 受賞に寄せて

京都大学 防災研究所  
准教授 スバジョティ・サマダール

このたび、イラセマ・アルカンタラ＝アヤラ教授が DPRI Award を受賞されましたことに、心よりお祝い申し上げます。

私がアルカンタラ＝アヤラ教授を初めて知ったのは、2015 年頃、田中教授がメキシコで同教授と面会されたことがきっかけでした。その後、防災研究所の客員教員として私たちの研究室にお迎えする機会を得ました。当時、私は非常に感銘を受けました。まだお若いにもかかわらず、すでに教授職にあり、災害リスクマネジメント分野において国際的に高い評価を受けておられたからです。その名声はメキシコ国内にとどまらず、世界的な広がりを持っていました。

その後の交流を通じて、私は同教授の卓越した研究業績のみならず、災害リスクに対する独自の思想と姿勢に深い敬意を抱くようになりました。アルカンタラ＝アヤラ教授が一貫して主張されてきたのは、「災害は単なる自然現象ではなく、社会的に構築される現象である」という重要な視点です。自然災害の引き金は自然に由来するものであっても、災害そのものは社会的脆弱性、不平等、統治構造、歴史的背景などによって形づくられるという考え方です。

さらに、同教授は、災害リスクの理解と対策には自然科学や工学のみならず、社会科学や人文学を含む学際的なアプローチが不可欠であることを強く提唱してこられました。特に、グローバル・サウスの人々の声が意思決定の場で十分に反映されていない現状に光を当て、その声を可視化し、政策や実践に結びつける努力を重ねてこられました。

気候変動への適応や複雑化する災害リスクに向き合う現代社会において、同教授の示す人間中心の統合的視点はますます重要性を増しています。科学を社会に生かし、包摂的で公正な災害リスクマネジメントを実現するための理論と実践の架け橋として、同教授の貢献は極めて大きなものです。

ここに改めて、アルカンタラ＝アヤラ教授のご受賞を心よりお祝い申し上げますとともに、今後ますますのご健勝とご活躍を祈念いたします。

## DPRI Award 設立の趣旨および

### 第 11回 DPRI Award 受賞者決定の経緯

研究教育担当副所長 境 有紀

防災研究所は、国内外で発生する自然災害を研究対象とすることから、国際交流協定の締結、国際共同研究、海外災害調査や留学生・海外共同研究者の受け入れなどの国際的な活動にも積極的に取り組んで参りました。平成22年度に認定され開始した共同利用・共同研究拠点は、令和 4 年度から3期目に入っています。また、防災研究所が事務局を務める世界防災研究所連合(GADRI)は令和5年3月に第6回世界防災研究所サミットを開催いたしました。このように防災研究所は頻発する国内外での自然災害に備えるための国際防災研究拠点として、その地位を確立するために、様々な新しい取り組みを推進しています。

これらの一環として平成23年3月に「京都大学防災研究所国際表彰規程」が制定され、DPRI Award が設立されました。その表彰の要件は

- 1) 防災研において、客員教員や共同研究者などとして滞在し、セミナーや共同研究などを実施し、防災研の研究教育に成果を上げた方
  - 2) 防災研が主催する研究集会等において、基調講演、招待講演等を務め、又は企画運営に携わり、防災研の活動に貢献した方
  - 3) 防災研が実施する国際共同研究及び現地調査等において貢献した方
- となっております。

これまでの授与実績は以下の通りです。

- ・ 第 1 回(平成 25 年度):金森博雄博士(カリフォルニア工科大学名誉教授)
- ・ 第 2 回(平成 26 年度):フランシスコ・サンチェズセスマ博士(メキシコ国立自治大学教授)
- ・ 第 3 回(平成 27 年度): キース・ハイペル博士(ウォータールー大学教授)
- ・ 第 4 回(平成 28 年度): ミシェル・ジャボイエドフ博士(ローザンヌ大学教授)

および国際応用システム分析研究所(IIASA)リスク・レジリエンスプログラム

- ・ 第 5 回(平成 30 年度): ジョン・グレッグ・アンダーソン博士(ネバダ大学リノ校教授)
- ・ 第 6 回(令和元年度): アンドリュー・コリンズ博士(ノーサンブリア大学教授)
- ・ 第 7 回(令和 2 年度): 陳亮全(Liang-Chun CHEN)博士(台湾国立防災救助技術センター元センター長)
- ・ 第 8 回(令和 3 年度): ジェームズ・デニス・ゴルツ博士(コロラド大学ボルダー校客員研究員)
- ・ 第 9 回(令和 4 年度): ビクトール・マヌエル・クルス・アティエンツァ博士(メキシコ国立自治大学教授)
- ・ 第 10 回(令和 5 年度): ピエー=イーヴ・バード博士(グルノーブル・アルプ大学地球科学研究所上級研究員)

今回、令和 6 年度の国際表彰について、令和 7 年1月に防災研究所のサマダール准教授から推薦があり、表彰選考委員会で慎重に審議しました。その結果、メキシコ国立自治大学地理学研究所教授の Irasema Alcántara-Ayala(イラセマ・アルカンタラ=アヤラ)博士に対し、第 11 回の防災研究所国際表彰 DPRI Award の「研究教育業績賞」の受賞者として所長に推薦することを決定いたしました。その後、所長の承認を得、これを教授会に諮り承認されました。

イラセマ・アルカンタラ=アヤラ博士は、1993 年にメキシコ国立自治大学(UNAM)を卒業後、1997 年にロンドン大学キングス・カレッジにて博士号を取得されました。その後、マサチューセッツ工科大学やジュネーブ大学(スイス)を経て、2000 年に UNAM の助教授、2005 年には教授に就任され、現在に至っています。この間、2008 年から 2012 年まで同大学地理研究所の所長を務められたほか、2000 年からはメキシコ国立防災センター(Cenapred)の共同研究者としても活動されています。

博士の専門は、地形学、地すべり、災害リスク、脆弱性分析、防災の地理学、そして、災害リスクと災害の法医学調査に関する統合研究で、特にリスクの社会的構築と災害脆弱性の根本原因の理解を中心に、防災研究の推進に尽力してきました。京都大学防災研究所(DPRI)においては、2017 年から 2018 年にかけて 2 度客員教授を

務められたほか、世界防災研究所連合(GADRI)の創設メンバーとしても尽力されています。

これまでに発表された 200 本以上の論文は、地理学、環境科学、公衆衛生、政策決定など幅広い分野を横断しており、災害リスクを理解するための包括的かつ学際的なアプローチを確立されました。また、共著である『災害の法医学的調査(FORIN)』では、災害の根本原因やリスク要因を調査するための理論・手法を提示されました。このアプローチは、ラテンアメリカ・カリブ海地域(LAC)をはじめ、アフリカ、欧州、アジアにおける地域レベルの災害リスク統合管理の実践に多大な影響を与えています。また、国際総合防災学会(IDRiM)等においても、社会、経済、政治構造を含めた多角的な視点から、統合的な知見を生み出す重要な指針となっています。

さらに博士は、GADRI 理事会における災害リスク軽減の議論において、女性や開発途上国の声を反映させる上で主導的な役割を果たしてこられました。メキシコ地形学会会長、国際地理学連合(IGU)、国際地滑りコンソーシアム(ICL)、国際地形学者協会(IAG)の副会長、国際科学会議(ISC)の災害リスク統合研究プログラム(IRDR)科学委員会委員といった要職を歴任し、その功績に対して、ルイジアナ州立大学のエブリン・プルーイット講演賞(2005 年)、TWAS Young Affiliate Fellow(2009 年)、ラテンアメリカ・カリブ海諸国若手科学者賞(2011 年)など、数々の権威ある賞が授与されています。

防災研究所における災害脆弱性の研究推進、防災におけるジェンダー視点の統合、そして GADRI を通じたネットワーク構築など、アルカンタラ＝アヤラ博士による多大な貢献は、当研究所の国際的な学際研究を牽引し、その存在感を世界に知らしめるものとなりました。これまでの多大なるご貢献に深く感謝申し上げますとともに、終身称号である「DPRI Fellow」として、今後とも本研究所の研究・教育に対し、大所高所よりご指導・ご助言を賜れば幸いです。

## Irasema Alcántara-Ayala教授 御略歴

氏名: Irasema Alcántara-Ayala (イラセマ アルカンタラ=アヤラ)

称号: Full Professor

国籍: Mexico

住所: Circuito Exterior, Ciudad Universitaria, Coyoacan, 04510,  
Mexico City, Mexico

所属機関: Institute of Geography, National Autonomous University of  
Mexico (UNAM)  
(メキシコ国立自治大学地理学研究所)

専門分野: Geography, disaster risk reduction, root causes of  
vulnerability, early warning for all  
(地理学、防災、災害リスク)

## Irasema Alcántara-Ayala, Ph.D.

Institute of Geography  
National Autonomous University of Mexico (UNAM)  
*Full Professor*



### Prof. Irasema Alcántara-Ayala

Born in Mexico City in November 1970. In 1993, she got her bachelor's degree with First Class Honours in Geography at the Faculty of Philosophy and Letters, National Autonomous University of Mexico (UNAM), where she was awarded the “G. Barreda Medal” as the best-qualified student of her generation. She was granted a scholarship by UNAM to undertake postgraduate studies; in 1997, she obtained her PhD in Geography/Geomorphology from King’s College London, University of London. She completed a postdoctoral stay in the Department of Civil and Environmental Engineering at Massachusetts Institute of Technology, Boston, in 1998-1999 and a risk analysis and management specialization course at the University of Geneva, Switzerland, in 2000.

Upon her return to Mexico in 2000, she was appointed Assistant Professor at the Institute of Geography, National Autonomous University of Mexico (UNAM). In 2005, she was promoted to Full Professor. Three years later, in 2008, the UNAM Government Board appointed her as Director of the Institute, making her the youngest individual to hold this position in its history. In 2017, she undertook a sabbatical year at the Disaster Prevention Research Institute at Kyoto University in Japan.

Her geographical research focuses on landslides, natural hazards, vulnerability, disaster risk, disaster prevention, and integrated disaster risk research. She has been actively collaborating in Mexico with the National Centre for Disaster Prevention and has published bulletins highlighting the importance of educating and promoting a culture of managing disaster risk and preventing disasters.

She has published over 200 publications. Her work covers the full spectrum: peer-reviewed papers, book chapters, atlases, maps, and publications focused on disaster risk reduction, policy-making, and practice. She has also presented her work at dozens of international meetings across the five continents, often as a keynote or invited speaker.

In 2010, she coedited a book on geomorphological hazards and disaster prevention with a well-known scientist from the University of Oxford (Cambridge University Press). This book emphasizes the need to establish sound strategies for understanding and forecasting hazard mechanisms, and for disaster prevention and mitigation. It has become a fundamental publication for risk assessment and management among Earth and social scientists, decision-makers, and planners.

Irasema coauthored the book *Forensic Investigations of Disasters (FORIN)* with pioneering disaster risk researchers. It provides the tools to examine the root causes of disasters and disaster risk drivers as a prerequisite to addressing disaster risk issues and mitigation. This theoretical-methodological approach has greatly influenced the development of thinking and practice at the local level in the integrated management of disaster risk in Latin America and the Caribbean (LAC), Africa, Europe, and Asia. This perspective serves as the gear needed to generate integrated knowledge of disaster risk, including social, economic, political, and institutional structures, as well as the participation of different actors in integrated disaster risk management (IDRM).

She has made an invaluable contribution to the field of disaster risk research at the international level through their comprehensive exploration of natural hazards and disaster risk reduction in the book *Disaster Risk*, published by Routledge. This publication bridges the gap between pioneering academic debates and contemporary discussions, offering both theoretical depth and practical insights. By drawing on a wide array of disciplines, including geography, environmental science, public health, and policy, Prof. Alcántara and co-authors have provided a holistic and interdisciplinary approach to understanding disaster risk. Their ability to synthesize and contextualize a broad range of topics—from foundational research to cutting-edge advancements—makes *Disaster Risk* essential reading for scholars, policymakers, and professionals dedicated to improving global disaster resilience. Through her continued contributions to this type of publication, Prof. Irasema has advanced both the academic field and the real-world applications of disaster risk management.

At the national level, she has also coordinated initiatives to link science with public policy and practice in the field of IDRM, which has influenced the creation of a new General Law on IDRM and Civil Protection and sought to transform the current National Civil Protection System into an IDRM System.

It is also worth highlighting an interdisciplinary article co-authored by global leaders in disaster risk reduction from 14 countries, published in the prestigious journal *Nature*. Likewise, she is a co-author of a chapter in the most recent IPCC report (2022) and in the United Nations Global Assessment Report on Disaster Risk Reduction (2022), the most important publication produced by the United Nations Office for Disaster Risk Reduction. Furthermore, she was the leader of the Regional Science and Technology Advisory Group for Disaster Risk Reduction in the Americas and the Caribbean (RSTAG Americas), in charge of preparing the publication *Integrated Disaster Risk Management in the Americas and the Caribbean: insights for a new scientific and technological-based regional agenda*.

As a pioneer in IDRM, she has consolidated research at UNAM in Mexico, Latin America, and the Caribbean (LAC), and in interdisciplinary and transdisciplinary work groups focused on disaster risk reduction. The significance of her work lies in the integrated research approach she has developed and applied to disaster risk, helping to understand the generic and specific impacts of the hazards to which society is exposed. These efforts have improved the understanding of these hazards from a dynamic point of view -especially regarding landslides- and have also increased social awareness of the importance and need to implement disaster risk reduction strategies based on understanding the root causes, identifying and addressing the disaster risk drivers, and therefore the integrated management of the territory.

She has been enthusiastically involved in teaching undergraduate and postgraduate courses. She has taught more than 160 courses at the undergraduate and postgraduate levels at UNAM, as well as extracurricular lessons at the national and international levels. She has directed 52 theses by first-, master's-, and doctoral-level students from Mexico and LAC. Training students to shape a better generation of decision-makers and practitioners is one of her main challenges; several former students have become well-recognized young leaders.

Her commitment to fostering collaboration and knowledge sharing has enabled her to assume a range of motivating leadership roles and strategic positions within the international scientific community. She is a member of the Mexican Academy of Sciences; the Organization for Women in Science for the Developing World (TWAS, Trieste, Italy); the Scientific Leadership Council of the International Mountain Research Initiative (Switzerland); and the Geo-Hazards Scientific Committee of UNESCO's International Geoscience Programme. She also serves as a member of the Scientific Committee of the World Weather Research Programme (WWRP) of the World Meteorological Organization, the Science and Technology Advisory Group for the Americas and the Caribbean (RSTAG) of the United Nations Office for Disaster Risk Reduction (UNDRR-ROAMC), and as a Fellow of the International Science Council (ISC). Since 2025, she has been a member of the Scientific Committee of Deep-time Digital Earth and Chair of the ISC GeoUnions Standing Committee on Disaster Risk Reduction (ISC-GU-SC-DRR). In addition, she is currently a Lead Author for the IPCC Seventh Assessment Report (AR7).

She was President of the Mexican Society of Geomorphology, Vice President of the International Geographical Union, the International Consortium on Landslides, the International Association of Geomorphologists, and the Scientific Committee of the Program for Integrated Research on Disaster Risk of the International Science Council. Former member of the Committee on Scientific Planning and Review of the former International Council for Science (ICSU, Paris). She was also President of the Academic Council of the Pan-American Centre for Geographical Studies and Research, of the Pan-American Institute of Geography and History, coordinator of the Geographical Education Committee of the Geography Commission of the same institute, and Chairwoman of the Committee for Disaster Risk Reduction of the Regional Office for LAC of the International Science Council (ISC-ROLAC).

Professor Alcántara-Ayala has been an active member of the Board of Directors and the Advisory Board of the Global Alliance of Disaster Research Institutes (GADRI), Kyoto, Japan, and the International Consortium on Landslides (ICL), Kyoto, Japan, where she currently chairs the International Programme of Landslides (IPL) Evaluation Committee.

She has been the recipient of several prestigious awards, among them are: the 3rd Evelyn Pruitt Lecture 2005, awarded by the Department of Geography and Anthropology, Louisiana State University, USA; TWAS Young Affiliate Fellow 2009 and Award for Young Scientists from Latin America and the Caribbean 2011, both from the Academy of Sciences for the Developing World; the Research Award for Young Scientists 2012 from the Mexican Academy of Sciences; the "José Antonio Alzate" Professional Merit Scroll, awarded by the Illustrious and Benemérita Mexican Society of Geography and Statistics of the State of Mexico in 2016; the Sergey Soloviev Medal 2016, from the European Union of Geosciences; in 2018, the Sor Juana Inés de la Cruz recognition granted by UNAM; 2022, *Praeveni et Missionis* Award, Mexican Association of Professionals in Risk Management and Civil Protection; the Academy of Sciences for the Developing World Award, TWAS, in Social Sciences in 2022; the International Science Council Fellow (2023); and the Varnes Medal awarded by the International Consortium on Landslides, in 2023.

Her research is internationally cutting-edge. From a geography perspective, in addition to generating knowledge per se, it seeks to integrate science and society's experience to co-produce knowledge and its essential application in public policy and Integrated Disaster Risk Management practice.

The work of Professor Alcántara has invigorated the highly commendable role of geography as a strategy for interhuman communication and development in Mexico, Latin America, and the Caribbean through the language of understanding and integrated management of the territory to reduce disaster risk.

**Irasema Alcántara-Ayala, Ph.D.**  
Institute of Geography  
National Autonomous University of Mexico (UNAM)  
*Full Professor*



## CURRICULUM VITAE

### PERSONAL DETAILS

**Name:** Irasema Alcántara-Ayala  
**Nationality:** Mexican  
**Date of birth:** 1970

**Present position:** Full Professor (Research)

**Address:** Institute of Geography  
National Autonomous University of Mexico, UNAM  
Circuito Exterior, Ciudad Universitaria  
Coyoacan, 04510  
Mexico City, Mexico

### ACADEMIC RECORD

**First degree:** 1993  
B.Sc., Geography (First class, Honours)  
National Autonomous University of Mexico (UNAM)

**Ph.D. degree:**

1997  
PhD, Geography  
University of London, King's College London, UK  
Thesis: Modelling mass movement risk under semi-arid mountainous conditions: the Alpujarride Complex, Spain

**Postdoctoral Fellow:**

1998, 1999  
Massachusetts Institute of Technology  
Department of Civil & Environmental Engineering  
Natural Hazards, Risk, Geomorphology and Landsliding

**Specialization course:**

2000  
Risk Analysis and Management (CERG)  
University of Geneva, Switzerland

**PROFESSIONAL EXPERIENCE*****Assistant Professor***

Institute of Geography  
National Autonomous University of Mexico, UNAM  
Circuito Exterior, Ciudad Universitaria  
Coyoacan, 04510, Mexico City  
August 2000- July 2005

***Full Professor***

Institute of Geography  
National Autonomous University of Mexico, UNAM  
Circuito Exterior, Ciudad Universitaria  
Coyoacan, 04510, Mexico City  
August 2005- to date

***Director***

Institute of Geography  
National Autonomous University of Mexico, UNAM  
Circuito Exterior, Ciudad Universitaria  
Coyoacan, 04510, Mexico City  
February 2008- February 2012

***Collaborator Researcher***

National Centre for Disaster Prevention  
Cenapred  
2000- to present

### ***Visiting Scientist***

Disaster Prevention Research Institute, University of Kyoto, Japan  
Research Centre for Disaster Reduction Systems / Disaster Risk Management  
February 1st, 2017 – January 31st, 2018  
(Academic Sabbatical Year)

### **MAIN LINES OF RESEARCH**

1. Geomorphology, from 1992 to date.
2. Landslides, from 1993 to date.
3. Geography of disaster risk, vulnerability analysis, and disaster prevention from 1998 to date.
4. Integrated research on disaster risk and forensic investigations of disasters from 2012 to date

### **RELEVANT RESEARCH PROJECTS**

2024-to date PEOPLE, Progressing EW4All Oriented to Partnerships and Local Engagement (PEOPLE), World Weather Research Programme (WWRP), World Meteorological Organisation (WMO), Geneva (Co-Chair).

2024-to date SATREPS Compound Disaster Risk Reduction associated with Large Earthquakes and Tsunamis, Faculty of Engineering, Kyoto University, Institute of Geophysics, Institute of Geography, UNAM (Participant).

2022-to date Community participation and communication of disaster risk triggered by slope instability. National Autonomous University of Mexico, PAPIIT (Principal Investigator).

2022-to date National Atlas of Mexico, Institute of Geography, UNAM (Participant).

2019-2020 Klima 2050, WP3 "Water triggered landslides", Norwegian Geotechnical Institute (NGI) (participant).

2019-to date MILADERA, National strategy to mitigate landslide disaster risk. National Centre for Disaster Prevention (participant).

2018-2020, UNDERSTAND-LA: Communities of practice for understanding landslides disaster risk. The National Autonomous University of Mexico, PAPIIT (Principal Investigator).

2017-2020, CNH-RCN: Bridging Communities and Scales Through a Global Transdisciplinary Mountain Sustainability Network (2017-2020), National Science Foundation (participant).

2017, DRR-IMPASSE "Disaster Risk Reduction Implementation Assessment, Instituto de Geografía, UNAM-Disaster Prevention Research Institute (DPRI), University of Kyoto, Japan. (Principal Investigator-UNAM).

FORIN: Forensic Investigations of Disasters, ICSU-IRDR (participant).

2013-2015, "HYDRODRIL, Integrated Risk Assessment of Hydrologically-Driven Landslides", Marie Curie Actions—International Research Staff Exchange Scheme (IRSES), European Community (participant).

2012-2017, MISTLI: Monitoring, Instrumentation, and Landslide Early Warning. National Council of Science and Technology (Conacyt) (Principal Investigator).

2010-2012, Territories' Observatory: hazards and risk evaluation. National Autonomous University of Mexico, PAPIIT (Principal Investigator).

2009, Comprehensive epidemiological study of the Valle y Cofre de Perote complex, Universidad Veracruzana, National Autonomous University of Mexico (Principal Investigator).

2009, Multidisciplinary study on the possible existence and faith of the Bermeja Island: Oceanographic, aerial and geo-historical cartographic analysis, UNAM, Institute of Marine Sciences and Limnology and Geography Institute (Principal Investigator).

2006-2010, Landsliding: instrumentation and monitoring. National Council of Science and Technology (Conacyt) (Principal Investigator).

2006-2008, A puzzle called risk: disaster prevention in indigenous communities of the Sierra Norte de Puebla. National Autonomous University of Mexico, PAPIIT (Principal Investigator).

2005-2006, Evaluation of the Natural Disaster Prevention Fund (FOPREDEN), Center for Urban and Environmental Demographic Studies, El Colegio de México (participant).

2005-2006, Unstable slopes: human or natural causes? Scientific cooperation between India-Mexico (participant).

2004-2005, Weathering and mass movement processes in tropical zones: geomorphological hazards assessment. Scientific cooperation between Poland-Mexico (participant).

2004, Deforestation, landslides and disasters: from monitoring to prevention. National Autonomous University of Mexico, PAPIIT (Principal Investigator).

2003-2005, Spatial-temporal effects of deforestation on landsliding: a disaster prevention approach. National Autonomous University of Mexico, PAPIIT (Principal Investigator).

2003, Economic valuation of Ecosystem Services (Disaster Prevention), National Institute of Ecology (INE)-Geography Institute, National Autonomous University of Mexico, (Principal Investigator).

2001-2004, Hillslope instability and associated risks: disaster prevention strategies in the Puebla-Veracruz region. National Council of Science and Technology (Conacyt) (Principal Investigator).

2001-2003, National strategy to mitigate landslide risks. National Centre for Disaster Prevention (participant).

2001-2003, The influence of tourism on the space-time dynamics of natural hazards, National Autonomous University of Mexico (Principal Investigator).

## **SOCIETIES MEMBERSHIPS**

- 2023- International Science Council Fellow (ISC)
- 2019- Organization for Women in the Science for the Developing World, Member.
- 2016- TWAS Young Affiliate Network (TYAN), Member.
- 2009-2014 TWAS Young Affiliate Fellow, The Academy of Sciences for the Developing World, Fellow.
- 2009- Mexican Academy of Science, Member.
- 2008- International Consortium on Landslides (ICL), Member.
- 2002- International Geographical Union, Member.
- 2000- International Association of Geomorphologists, Member.
- 1997- Mexican Society of Geomorphology, Member.
- 1994-1997 Royal Geographical Society/Institute of British Geographers, Fellow.
- 1993-1997 British Geomorphological Research Group (BGRG), Member.

## **SCIENTIFIC AWARDS AND PRIZES**

- 2023, Varnes Medal 2023, International Consortium on Landslides, Florence, Italy
- 2023, Medal of Merit "Benito Juárez", Mexican Society of Geography and Statistics
- 2023, International Science Council Fellow
- 2022, TWAS Award in Social Sciences
- 2022, *Praeveni et Missionis* Award, Mexican Association of Professionals in Risk Management and Civil Protection

- 2022, Honorary Member, Mexican Association of Professionals in Risk Management and Civil Protection
- 2021, International Programme on Landslides (IPL) Award for Success, International Consortium on Landslides; Kyoto, Japan.
- 2018, Sor Juana Inés de la Cruz recognition, National Autonomous University of Mexico (UNAM), Mexico City, Mexico.
- 2018, Recognition of Academic Merit, AAPAUNAM, Mexico City, Mexico.
- 2016, Sergei Soloviev Medal by the European Geosciences Union, Vienna, Austria.
- 2016, Professional Merit Scroll "José Antonio Alzate", awarded by the Mexican Society of Geography and Statistics of the State of Mexico, State of Mexico, Mexico.
- 2012, Mexican Academy of Sciences Prize for Young Scientists 2012, Mexico City, Mexico.
- 2011, TWAS-ROLAC Prize for Young Scientists, The Academy of Sciences for the Developing World, Rio de Janeiro, Brazil.
- 2009, TWAS Young Affiliate Fellow, The Academy of Sciences for the Developing World.
- 2005, 3rd Evelyn Pruitt Lecturer, Department of Geography and Anthropology, Louisiana State University, USA.
- 1993, Gabino Barreda Medal to the best-qualified student of the generation, Bachelor in Geography, National Autonomous University of Mexico, Mexico City, Mexico.

#### **SCIENTIFIC DISTINCTIONS AND GRANTS**

- 2000 to date Performance Academic Programme (PRIDE)-Level D-maximum awarded (since 2010), National Autonomous University of Mexico.
- 2001 to date National System of Researchers (SNI), Mexico, Member, Level 3- maximum awarded (since 2013), National Autonomous University of Mexico.
- 2004 Grant from the Royal Society/Mexican Academy of Sciences, for a research stay at the University of London.
- 2001 Young Geomorphologist Grant to participate in the V International Conference on Geomorphology, Tokyo, Japan. International Association of Geomorphologists.
- 2000 Grant from the United Nations University and the International Astronautical Federation to participate in the UN/IAF Workshop on Operational Strategy for Sustainable Development Using Space, INPE, São José Dos Campos, Brazil.

- 2000 Grant from the United Nations University to participate in the international course: Analysis and Management of Geological Risks, University of Geneva, Switzerland.
- 1998-1999 Postdoctoral research grants by Massachusetts Institute of Technology and National Council of Science and Technology-Mexico.
- 1997 Young Geomorphologist Grant, IV International Conference on Geomorphology, Bologna, Italy, International Association of Geomorphologists.
- 1996 PhD research and field studies scholarship, School of Humanities, King's College London, University of London.
- 1993-1997 PhD studies scholarship, National Autonomous University of Mexico.
- 1992-1993 BSc studies scholarship, National Autonomous University of Mexico.

#### **PARTICIPATION IN INTERNATIONAL AND NATIONAL ORGANIZATIONS**

- 2025 (December) to date Chair, ISC GeoUnions Standing Committee on DRR (ISC-GU-SC-DRR)
- 2025- (October) to date Member of the Scientific Committee, Deep-time Digital Earth
- 2025- to date Lead Author IPCC – AR7
- 2024- to date Member of the Board of Directors, Global Alliance of Disaster Research Institutes (GADRI), Kyoto, Japan.
- 2023- to date Fellow of the International Science Council
- 2020- to date Member of the Scientific Committee of the World Weather Research Program (WWRP), World Meteorological Organization.
- 2019- to date Member of the Science and Technology Advisory Group (RSTAG) for the Americas and the Caribbean of the United Nations Office for Disaster Risk Reduction (UNDRR-ROAMC).
- 2019 Member of the Advisory Council of the Commission for Civil Protection and Disaster Prevention, Chamber of Deputies, LXIV Legislature, Mexico City, Mexico.
- 2019-2020 Member of the Technical Advisory Board of the Regional Assessment Report (RAR2020), United Nations Office for Disaster Risk Reduction (UNDRR), Regional Office for the Americas & the Caribbean, Panama.
- 2018-to date International Geoscience Programme Council (IGCP), UNESCO, Scientific Board Member, Geohazards, Paris, France.
- 2018-2020 Disaster Risk Reduction Steering Committee Chair, International Science Council, Regional Office for Latin America and the Caribbean (ISC-ROLAC).

- 2018-to date International Advisory Board of the Research Center for Integrated Disaster Risk Management – CIGIDEN, Pontificia Universidad Católica de Chile, Chile.
- 2018-2020 Member of the Advisory Board, Global Alliance of Disaster Research Institutes (GADRI), Kyoto, Japan.
- 2016-2018 Member of the Board of Directors, Global Alliance of Disaster Research Institutes (GADRI), Kyoto, Japan.
- 2014-2024 Member of the Science Leadership Council of the Mountain Research Initiative (MRI), Switzerland.
- 2014-2019 Vice-President of the Scientific Committee on Integrated Research on Disaster Risk, International Council for Science, ICSU-UNISDR-ISSC.
- 2013-2017 Vice-President of the International Association of Geomorphologists (IAG).
- 2012-2019 Member of the Scientific Committee on Integrated Research on Disaster Risk, International Council for Science, ICSU-UNISDR-ISSC.
- 2012-2016 President of the Academic Council of the Pan-American Centre for Geographical Studies and Research (CEPEIGE), of the Pan-American Institute of Geography and History (PAIGH).
- 2012-2015 Vice-President of the International Consortium on Landslides (ICL), Kyoto, Japan.
- 2009-2014 University of Cologne, Member of the International Advisory Board, Cologne, Germany.
- 2009-2012 International Council for Science (ICSU), Member of the Committee on Scientific Planning and Review (CSPR), Paris, France.
- 2009-to date Member of the Scientific Advisory Committee of the National Civil Protection System (SINAPROC) on Geological Hazards, National Centre for Disaster Prevention (CENAPRED), Mexico.
- 2009-2015 Member of the Permanent Consultative Council for Disaster Prevention and Civil Protection. Subcommission on Science and Technology, National Civil Protection System (SINAPROC) - National Centre for Disaster Prevention (CENAPRED), Mexico.
- 2008-2012 Coordinator of the Geographical Education Committee of the Geography Commission of the Pan-American Centre for Geographic Studies and Research (CEPEIGE), Pan-American Institute of Geography and History (PAIGH).
- 2008-2012 Vice-President of the International Geographical Union (IGU).
- 2007 Global Scientific Challenges: Perspectives from Young Scientists, An international conference celebrating 75 years of ICSU (International Council for Science),

Young scientists representative of the International Geographical Union (IGU),  
Lindau, Germany,

- 2006- 2008 Representative of the International Geographical Union, to the International Year of Earth Planet, Deep Earth: from core to crust.
- 2005-2015 International Association of Geomorphologists, Geomorphological Hazards Working Group, Chair.
- 2002-2005 International Association of Geomorphologists (IAG), Member of the Executive Committee.
- 2002-2005 Latin America Representative Hazards and Risk Commission, International Geographical Union.
- 2002-2005 Representative of the International Geographical Union, to the Earthquakes and Megacities Initiative (EMI).
- 2000-2008 Mexican Society of Geomorphology, President, Mexico.

## **EDITORIAL ACTIVITIES**

### **Journal Editorial Boards - Member**

- 2023- Editorial Board of the Journal npj Natural Hazards, Nature
- 2019-2024 Editorial Board of the Journal Disasters, United Kingdom, Wiley-Blackwell (Web of Science).
- 2019- Editorial Board of the Journal Progress in Disaster Science, Elsevier, Japan (Web of Science).
- 2018- Editorial Board of the Journal Environmental Hazards, United Kingdom, Taylor & Francis (Web of Science).
- 2018- Editorial Board of the Journal AUC Geographica (Acta Universitatis Carolinae Geographica) (Web of Science).
- 2017- Editorial Board of the Journal Mountain Research and Development, Allen Press & International Mountain Society, Switzerland (Web of Science).
- 2014- Editorial Board of the Ecosystem Health and Sustainability Journal, United Kingdom, Taylor & Francis (Web of Science).
- 2009- Editorial Board of the Journal Earth Surface Processes and Landforms, United Kingdom, Wiley-Blackwell (Web of Science).
- 2005-2017 Editorial Board of the Singapore Journal of Tropical Geography, Singapore-United Kingdom, Wiley-Blackwell (Web of Science).

2004- Editorial Board of the Journal of Mountain Science, China, Springer-Nature (Web of Science).

#### **PARTICIPATION AS KEYNOTE SPEAKER IN INTERNATIONAL MEETINGS**

**Alcántara Ayala, I.**, 2024, Forensic Investigations of Disasters around the Globe: Insights and Lessons for a Safer Future, IRDR International Conference 2024 – “Science for an inclusive, safe and sustainable world: actions of IRDR Global Community”, Beijing, China, 22 to 23 October 2024.

**Alcántara-Ayala, I.** 2023, Integrated Disaster Risk Management in the Americas and the Caribbean: Reflections and Challenges for a Regional Agenda based on Science and Technological Development, Workshop on Science of Disasters—Past, Present, and Future: A Contribution of CEMADEN, National Center for Monitoring and Alerts of Natural Disasters, San José Dos Campos, Brazil, May 17, 2023.

**Alcántara-Ayala, I.** 2023, It is never too late to find the way: key challenges for disaster risk reduction in Latin America, X International Congress of Geography of Latin America. Latin America faces the (New) Social and Environmental Justice Challenges, January 26, Santiago de Compostela, Spain.

**Alcántara-Ayala, I.**, 2021, Disasters: towards understanding and awareness of risk and its urgent reduction, "After 2030: Women leaders for a sustainable future", University Coordination for Sustainability, October 14

**Alcántara-Ayala, I.**, 2021, Comprehensive Disaster Risk Management: an essential link between geosciences and society, 1st Regional Conference of the International Association for Engineering Geology and the Environment (IAEG) and 2nd Argentine Geology Congress, September 10. Online

**Alcántara-Ayala, I.**, 2021, Integrated Disaster Risk Management: addressing systemic risks in mountain contexts, Sustainability Research & Innovation Congress 2021, Brisbane, Australia, 12-15 June. Online

**Alcántara-Ayala, I.**, 2021, Comprehensive Disaster Risk Management: a geographic vision, GEORISCO International Seminar, City of Natal, in the State of Rio Grande do Norte, Brazil, May 28. Online

**Alcántara-Ayala, I.**, 2021, Integrated Disaster Risk Management in Mountain Territories: perspectives of transdisciplinary research, 1st International Meeting of the Latin American and Caribbean Network for Research and Innovation in Mountain Environments, LACMONT 2021, Nova Friburgo, RJ, 11-13 de May, Brazil.

**Alcántara-Ayala, I.**, 2021, Integrated Disaster Risk Management: a look from Geography, Physical Geography and its application to territorial management, 1st Edition: Science, Land and Prevention, National University of Tucumán, Argentina, April 23. Online

**Alcántara-Ayala, I.**, 2020, Comprehensive Disaster Risk Management: linkage challenges between the social and basic sciences, International Seminar "Social Sciences and Disaster Risk Management: An inconclusive meeting", FLACSO Costa Rica-La Oficina General of Risk Management and Adaptation to Climate Change (OGGRACC) of the National University of San Marcos (UNMSM)-The National Center for Estimation, Prevention and Reduction of Disaster Risk (CENEPRED), October 12, Peru. Online

**Alcántara-Ayala, I.**, 2020, Resilience from the territories: Making Community Disaster Risk Management, Cycle of conversations "Re-thinking Disaster Risk Management and Resilience", Research Center for Integrated Disaster Risk Management Disaster, CIGIDEN, July 29, Santiago de Chile, Chile. Online

**Alcántara-Ayala, I.**, 2019, Integrated Landslide Disaster Risk Management and Climate change adaptation, Frontiers of climate adaptation, Trondheim, Norway, November 26-27.

**Alcántara-Ayala, I.**, 2019, Integrated Landslide Disaster Risk Research and Management, Nature Based Solutions for natural hazard mitigation, Norwegian Geotechnical Institute, Oslo, Norway, November 25.

**Alcántara-Ayala, I.**, 2019, Integrated Research on Disaster Risk: challenges and opportunities for the future of mountains, Innsbruck, Austria, September 8-12, 2019.

**Alcántara-Ayala, I.**, 2018, Disaster Risk Reduction and Management: on the challenge to connect science to practice, Mountains 2018, Nova Friburgo, Rio de Janeiro State, Brazil, 10-December 14, 2018.

**Alcántara-Ayala, I.**, 2018, Disaster Risk Reduction: the challenge to link science and practice (Reducción del Riesgo de Desastres: el desafío de vincular la ciencia con la práctica), XVII Congreso Nacional de Ciencia y Tecnología, APANAC (Asociación Panameña para el Avance de la Ciencia), Ciudad de Panamá, Panama, October 23-26, 2018. *(In Spanish)*.

**Alcántara-Ayala, I.**, 2017, Geomorphology, Disaster Risk Reduction and Policy Making: on the road to Sendai, 9th International Conference on Geomorphology of the International Association of Geomorphologists (IAG), New Delhi, India, November 6-11, 2017.

**Alcántara Ayala, I.**, 2017, The milestone of the 1985 earthquake and the Civil Protection System in Mexico: the way forward, Workshop on Hazard Assessment of Large Earthquakes and Tsunamis in the Mexican Pacific Coast for Disaster Mitigation, Kasugano International Forum, Nara, Japan, July 26, 2017.

**Alcántara Ayala, I.**, 2017, Landslides and Society, 4 World Landslide Forum, Ljubljana, Slovenia, May 29 - June 2, 2017.

**Alcántara-Ayala, I.**, 2016, Landslide risk assessment and landslide disaster risk management: on the missing link between scientific knowledge, decision making and practice (Sergey Soloviev Medal Lecture), Session: NH3.9, Uncertainty and quality evaluation in landslide hazard and risk assessment, European Geosciences Union General Assembly, Vienna, Austria, May 20, 2016.

**Alcántara-Ayala, I.**, 2016, Beyond hazard understanding: landslide risk perception in developing countries, GADRI Geohazard Group Meeting 2016: New generation of

geohazard mapping and strategy for its social application, Global Alliance of Disaster Research Institutes (GADRI), Disaster Prevention Research Institute (DPRI), University of Kyoto, Japan, March 12, 2016.

**Alcántara Ayala, I.**, 2014, Forensic investigations of disasters: a tool for territorial planning (Investigaciones Forenses De Desastres: Una Herramienta para el Ordenamiento Territorial,) VI Congreso Iberoamericano de Estudios Territoriales y Ambientales (CIETA), Universidad de Sao Paulo, Brazil, 8-12 September. *(In Spanish)*.

**Alcántara-Ayala, I.**, 2013, The Day of the Landslide: Forensic Investigations of Disasters, IANAS, Scientific Meeting and General Assembly, Punta Cana, Dominican Republic, July 17, 2013.

**Alcántara-Ayala, I.**, 2013, Integrated Research on Disaster Risk (Investigación Integral de Riesgo de Desastres), International workshop on Forensic Investigations of Landslide Disasters, FORIN, Universidad de Ciencias y Artes de Chiapas (UNICACH), Mexico, June 26, 2013. *(In Spanish)*.

**Alcántara-Ayala, I.**, 2013, Hillslope instability, disasters and environmental impact (Inestabilidad de laderas, desastres e impacto ambiental), 14o Encuentro de Geógrafos de América Latina (EGAL), Lima, Peru, April 11, 2013. *(In Spanish)*.

**Alcántara-Ayala, I.**, 2013, Integrated Research on Disaster Risk: the role of geography, 1st International CEGOT meeting, Geography, politics, policies and planning, Universidad de Porto, Porto, Portugal, March 4, 2013.

**Alcántara-Ayala, I.**, 2012, Disaster risk management: an agenda of scientific and social challenges (Gestión del riesgo de desastres: una agenda de desafíos científicos y sociales), Feria Internacional del Libro 2012, Guadalajara, Jalisco, Mexico, November 30, 2012. *(In Spanish)*.

**Alcántara Ayala, I.** 2011, Lessons from Latin America - when science and society meet landslides, The Second World Landslide Forum "putting science into practice". Rome, Italy. October 3-9, 2011.

**Alcántara Ayala, I.** 2010, The Anatomy of landslides disasters – an insight, Natural Hazards and Disaster Risks in Latin America and the Caribbean, The ENHANS International Symposium, Iguassu, Brazil, August 9-11, 2010.

**Alcántara-Ayala, I.** 2009. Landslide disasters: Climate change or globalization? (Desastres por procesos de remoción en masa: ¿Cambio climático o globalización?), Universidad Pedagógica y Tecnológica de Colombia (UPTC) y el Instituto Geográfico Agustín Codazzi - IGAC, Bogota, Colombia. *(In Spanish)*.

**Alcántara-Ayala, I.** 2009. Landslide disasters: Climate change or globalization? (Desastres por procesos de remoción en masa: ¿Cambio climático o globalización?), III Simposio Mexicano Colombiano de Investigación Geográfica, Universidad de Quintana Roo, Mexico. *(In Spanish)*.

**Alcántara-Ayala, I.** 2008. Landslides and extreme events in mountain regions of Mexico: climatic change or human induced? Regional Conference on Geomorphology; Landslides, Floods and Global Environmental Change in Mountain Regions, Brasov, Rumania.

**Alcántara-Ayala, I.** 2008. Beyond science: geomorphology and disaster prevention, II Encuentro Latinoamericano de Geomorfología, Belo Horizonte, Brazil.

**Alcántara-Ayala, I.** 2008. Geomorphology and disaster prevention: challenges to be faced, First joint congress of the Working Groups: Human Impact on the Landscape (HILS) and Geomorphological Hazards (IAGeomhaz), Bochum, Germany.

**Alcántara-Ayala, I.** 2005. Earth, surface, processes and ladies: from Gaea, Prithivi, and Coatlicue to contemporary women geomorphologists. 6th International Conference on Geomorphology, Zaragoza, Spain.

**Alcántara-Ayala, I.** 2005. Geomorphology, natural hazards, vulnerability and prevention of natural disasters in developing countries, Department of Geography and Anthropology, Louisiana State University, USA, Evelyn Pruitt Lecture.

## PARTICIPATION IN INTERNATIONAL MEETINGS

Velásquez Espinoza, G. **Alcántara-Ayala, I.** 2024, Spatio-Temporal Distribution of Rainfall-Induced Landslides in Nicaragua (2000–2022): Preliminary Insights to Communicate Landslide Disaster Risk, 2024 International Programme on Landslides-Kyoto Landslide Commitment (IPL-KLC) Symposium, Kyoto University, Japan. November 6-7, 2024.

Garnica-Peña R.J., **Alcántara-Ayala, I.** 2024, Do not Let Your Guard Down: Landslide Exposure and Local Awareness in Mexico, 2024 International Programme on Landslides-Kyoto Landslide Commitment (IPL-KLC) Symposium, Kyoto University, Japan. November 6-7, 2024.

**Alcántara-Ayala, I.**, 2024, Critical Connections: Disaster Risk, Climate Change and Health in the 21st Century, II International Congress on Research and Climate Change and Health, Union of Universities of Latin America and the Caribbean, CDMX, October 21-23.

**Alcántara-Ayala, I.** 2024, Disaster Mapping: A Forensic-Geographic Perspective on the Root Causes and Drivers of Disaster Risk, Finisterra Annual Lecture, 2024 edition, Centro de Estudios Geográficos, Lisbon, Portugal, October 17, 2024.

Marín Cambranis, R.H., Benavides Rosales, A., Mungaray Lagarda, A., Reyna N., **Alcántara-Ayala, I.** 2024, Mexico Earthquake / 2017, UNDRR, Global Assessment Report, GAR Special Report 2024, Forensic Insights for Future Resilience: Learning from Past Disasters, September 18, 2024, 10.13140/RG.2.2.3466.

**Alcántara-Ayala, I.** 2024, Landslide Disaster Risk Reduction in Mountains: challenges for transdisciplinary research, 35th International Geographical Congress 2024, Dublin City University, Ireland, 24 - 29 August.

**Alcántara-Ayala I.** 2024. Forensic Investigations of Disasters: Unveiling Enablers and Barriers to Disaster Risk Management and Resilience Building, Humanitarian Networks and

Partnerships Weeks HNPW 2024 (29 April - 10 May 2024), Session: Applied Disaster Forensics: Learn from the past to build a resilient future, Geneva, Switzerland, May 8, online.

**Alcántara-Ayala I.** 2024. Disaster Risk Reduction and Resilience: A Contribution from Geography, 5th Open Discussion Forum of GADRI Contributions to the Political Declaration of the SFDRR: An Academic and Science Perspective, Global Alliance of Disaster Research Institutes, GADRI, DPRI, Kyoto University, March 12, Kyoto, Japan.

**Alcántara-Ayala I.** 2024. Experiences on Risk and Disasters in Latin America: Risk Reduction Associated with Volcanic Hazards, Cities on Volcanoes 12, February 11 to 17, 2024, Antigua Guatemala, Guatemala.

**Alcántara-Ayala, I.** 2023, Integrated Disaster Risk Management in the Americas and the Caribbean: perspectives and challenges from the Academy, Panel Discussion The Academic Perspective of the Medium Term of the Sendai Framework for Action, 5th International Congress on Integrated Risk Management and Resilience in Cities, October 11-13, CDMX.

Garnica-Peña R.J., **Alcántara-Ayala I.** 2023. Landslide recognition in a Mexican mountain local context: building community interactions using unmanned aerial vehicles, 6th World Landslide Forum "Landslides Science for sustainable development", Florence, Italy, 14 to 17 November 2023.

**Alcántara-Ayala, I.** 2023, Progress on the Implementation of the Sendai Framework: Challenges for the Science and Technology Community in the Americas and the Caribbean, Sendai Midterm Review – MTR-SF Viewpoints and Discussion for the Next Seven Years of the Sendai Framework, DPRI, Kyoto University, Kyoto, Japan, March 14, 2023.

**Alcántara-Ayala, I.** 2023, Integrated Disaster Risk Management in the Americas and the Caribbean: insights for a new scientific and technological-based regional agenda, UNDRR Regional Platform, Punta del Este, Uruguay, February 28-March 2nd.

**Alcántara Ayala, I.** y R.J. Garnica Peña, 2022, Landslide warning systems in low- and lower-middle-income countries: future challenges and societal impact, ICL Conference, DPRI-Kyoto University, Kyoto, November.

**Alcántara-Ayala, I.** 2022, Disaster Risk Reduction: Awareness, With Science and with our Planet, 2022 Regular Session of the Council of the Commission for Environmental Cooperation, intergenerational roundtable Living under crises: sharing knowledge to create more sustainable communities, 14-15 July, Mérida, México. (online).

**Alcántara-Ayala, I.** 2022, Improved Understanding and Governance of Systemic Risk - Unpacking the 2022 Global Assessment Report, Seventh Session of the Global Platform on Disaster Risk Reduction (GP2022) which took place from 23-28 May 2022 in Bali, Indonesia.

Capparelli, G., Spolverino, G., **Alcántara-Ayala, I.**, Ruiz-Cortés, N.S. 2022. Physical modelling investigation and integrated analysis of landslides for defining risk scenarios, 5th Regional Symposium on Landslides in the Adriatic-Balkan Region Landslide Modelling & Application, Faculty of Civil Engineering, University of Rijeka, 23-26 March, Croacia, online, March 25. (online).

Vogel, C., Siame, G., **Alcántara-Ayala, I.** 2022. The chains that bind us: adding value to the value chain, 1st WMO/WWRP Weather & Society Conference, February 28 – March 11, 2022, Geneva, Switzerland, March 8th. (online).

Garnica-Peña R.J., Cardón-Idelfonso G., **Alcántara-Ayala I.** 2021, Landslide Exposure Community-Based Mapping: A First Encounter in a Small Rural Locality of Mexico, 5th World Landslide Forum, WLF 2020, November 5, Kyoto, Japan (online).

Garnica-Peña R.J., García-Marroquin G., **Alcántara-Ayala I.** 2021, On the Use of UAVs for Landslide Exposure of Households: La Gloria Neighbourhood, Teziutlán, Puebla. 5th World Landslide Forum, WLF 2020, November 5, Kyoto, Japan (online).

**Alcántara-Ayala I.** 2021, Size Matters: The Impact of Small, Medium and Large Landslide Disasters, 5th World Landslide Forum, WLF 2020, November 5, Kyoto, Japan.

**Alcántara-Ayala, I.** 2021, Science and technology for DRR: Forensic Investigation of Disasters (FORIN), Learning Laboratory, VII Regional Platform for Disaster Risk Reduction in the Americas and the Caribbean Building Resilient Economies, November 2, (online).

**Alcántara-Ayala, I.** 2021, Regional Risk Assessment Report 2021 (Regional risk overview): towards integrated, multilateral risk governance with a gender perspective, UNDRR, ECLAC, GNDR, VII Regional Platform for Risk Reduction Disaster Management in the Americas and the Caribbean Building Resilient Economies, November 1, Jamaica (online).

**Alcántara-Ayala, I.,** 2021, Reflections on the Global Research Agenda on Disaster Risk Reduction, The Integrated Research on Disaster Risk 2021 International Conference, Beijing, China, 8-10 June (online).

**Alcántara-Ayala, I.,** 2021, Integrated Research on Disaster Risk, International virtual forum of women leaders in disaster risk reduction, Center for University Studies of the New West and the Mexican College of Professionals in Risk Management and Civil Protection, March 5.

**Alcántara-Ayala, I.,** Noy, I. 2020, COVID-19: Insights through the lens of IDRiM, IDRiM Virtual Workshop for Interactive Discussions between Senior and Early-Career Scientists, Integrated Disaster Risk Management (IDRiM) Society, 23 de septiembre (online).

Gunya, A., Tucker, C., Jimenez, E. **Alcántara-Ayala, I.,** Klein, J., Mwangi, E., Xu, J., 2019, Mountain ecosystems-analogues: possibilities and limitations of knowledge transfer and experience in the field of mountain governance, International Mountain Conference 2019, Innsbruck, Austria, September 8-12, 2019.

Tucker, C., Jiménez-Zamora, **Alcántara-Ayala, I.,** Gunya, A., Klein, J., Mwangi, E., Xu, J., 2019, Opportunities and Challenges for Sustainable Governance and Local Development of Mountain Social-Ecological Systems, International Mountain Conference 2019, Innsbruck, Austria, September 8-12, 2019.

**Alcántara-Ayala, I.,** Tucker, C., Gunya, A., Jiménez-Zamora, E., Klein, J., Mwangi, E., Xu, J., 2019, The complex anatomy of Disaster Risk Governance in Mountains: on the need of an integrated transformation approach, International Mountain Conference 2019, Innsbruck, Austria, September 8-12, 2019.

**Alcántara-Ayala, I.**, 2019, Understanding Disaster Risk and Disasters, Workshop on Water, Climate Change and Disasters, Alliance of Mexican-Indian Geoscientific Opportunities (AMIGOs), Auditorio Ricardo Monges López – Instituto de Geofísica, UNAM, Mexico, 29-31 mayo.

**Alcántara-Ayala, I.**, 2019, Understanding Disaster Risk: a contribution from Latin America (Entendiendo el Riesgo de Desastres: una contribución desde América Latina, Panel Humanitarianismo en México y Latinoamérica: Pasado y presente, Instituto de Investigaciones Dr. José María Luis Mora, Mexico, February 20, 2019. *(In Spanish)*.

Garnica-Peña, R.J., **Alcántara-Ayala, I.**, 2018, Landslide disaster risk perception (Percepción de la población a la exposición por deslizamientos en Teziutlán, Puebla), IV Congreso de la Sociedad de Análisis de Riesgo Latinoamericana SRA-LA 2018, CDMX, Mexico, October 29-31.

**Alcántara-Ayala, I.**, 2018, Forensic investigations of disasters : the essential compass for integrated disaster risk management (Investigación forense de desastres: la brújula imprescindible para la Gestión Integral del Riesgo de Desastres), IV Congreso de la Sociedad de Análisis de Riesgo Latinoamericana SRA-LA 2018, CDMX, Mexico, October 29-31. *(In Spanish)*.

**Alcántara-Ayala, I.**, 2018, High Panel Session Disaster Risk Reduction and the role of Science, Technology and Innovation (Sesión de Alto Nivel: La Reducción del Riesgo de Desastres y el Rol de la Ciencia, la Tecnología y la Innovación), II Foro Abierto de Ciencias de América Latina y el Caribe, CILAC 2018 “Ciencia Conecta: Territorios Sostenibles”, panelista, October 22-24, Ciudad de Panamá, Panama *(In Spanish)*.

**Alcántara-Ayala, I.**, 2018, The challenges of the implementation of Integrated Disaster Risk Management in Mexico: a look from the Academy (Los desafíos de la implementación de la GIRD en México: una mirada desde la Academia), Sesión: Los desafíos de la implementación de la Gestión Integral del Riesgo de Desastres en México, organizada por Citibanamex, Foro Understanding Risk 2018, Palacio de Minería, Mexico City, Mexico, May 14-18 *(In Spanish)*.

**Alcántara-Ayala, I.**, 2018, Landslides, Society and Disaster Risk Reduction, Department of Earth and Environmental Sciences, Geo-Institute (Heverlee campus), University of Leuven, Belgium, February 27.

**Alcántara-Ayala, I.**, 2018, SFDRR, Priority 1-Understanding Risks: Contribution of Universities to Society, Open Discussion Forum of the Global Alliance of Disaster Research Institutes (GADRI), Disaster Prevention Research Institute (DPRI), University of Kyoto, Japan, March 15, 2018.

Ruiz-Cortés, N.S., **Alcántara-Ayala, I.**, 2017, Landslide Disaster Risk In The Urban Area Of Teziutlán, Puebla, México: Building Exposure Through Time, 9th International Conference on Geomorphology of the International Association of Geomorphologists (IAG), New Delhi, India, November 6-11, 2017.

**Alcántara-Ayala, I.**, 2017, Disaster Prevention and Resilient Society, Science and Technology in Society forum, Kyoto, Japan, October 1-3rd (invited key speaker).

**Alcántara-Ayala, I.**, 2017, Disasters, 40th Anniversary Conference, Overseas Development Institute, London, England, September 14 (Invited speaker for a discussion panel).

**Alcántara-Ayala, I.**, 2017, Civil Protection in Mexico: a brief history and challenges ahead, 9th Sogo Bosai Seminar, Disaster Prevention Research Institute (DPRI), University of Kyoto, Japan, September 1, 2017.

**Alcántara-Ayala, I.**, Cruz A.M., 2017, The Fukushima Dai-ichi Nuclear Power Plant Natech accident: a Forensic perspective, IDRIM2017, 8th Conference of the International Society for Integrated Disaster Risk Management, Reykjavik, Iceland, August 23-25.

**Alcántara-Ayala, I.**, 2017, Landslide Disaster Risk in Teziutlán, Puebla, Mexico: some insights on people's perception and exposure, Disaster Prevention Research Institute (DPRI), University of Kyoto, Japan, June 23, 2016.

**Alcántara-Ayala, I.**, Murray V., Daniels P., McBean G., 2017, On the future challenges for the integration of science into international policy development for Landslide Disaster Risk Reduction, 4 World Landslide Forum, Ljubljana, Slovenia, May 29 – June 2.

Garnica Peña R.J., **Alcántara-Ayala, I.**, 2017, Landslide synchronic evaluation by using Unmanned Aerial Vehicles (UAV): some insights on disaster risk in Teziutlán, Puebla, México, 4 World Landslide Forum, Ljubljana, Slovenia, May 29 – June 2.

**Alcántara-Ayala, I.**, R.J. Garnica Peña, A.R. Moreno Sánchez, K. Landeros Mugica y J. Urbina Soria, 2016, "Landslide Risk Perception and Exposure in Teziutlán, Puebla, México", 33 International Geographical Congress, International Geographical Union, Beijing, China, August 21-25.

**Alcántara-Ayala, I.**, 2016, DRR-IMPASS Disaster Risk Reduction Implementation Assessment, Open Discussion Forum of the Global Alliance of Disaster Research Institutes (GADRI), Disaster Prevention Research Institute (DPRI), University of Kyoto, Japan, March 23, 2016.

**Alcántara-Ayala, I.**, Moreno A. R., Garnica-Peña, R.J., 2016, Landslide disaster risk communication in mountain areas, International Programme on Landslides (IPL) Symposium, International Consortium on Landslides (ICL), Disaster Prevention Research Institute (DPRI), University of Kyoto, Japan, March, 2016.

**Alcántara-Ayala, I.**, 2016, Forensic Investigations of Disasters (FORIN): a closer look to disasters, International Seminar of Committee of Infrastructure, Planning and Management, Japan Society of Civil Engineers (JSCE), Disaster Prevention Research Institute (DPRI), University of Kyoto, Japan, February 22, 2016 (Invited Lecture).

Murillo-García, F. G., Garnica-Peña, R.J., **Alcántara-Ayala, I.**, 2015, La Aurora Landslide, Teziutlán, Puebla: hazard characterization and potential risk impact, Perth III: Mountains of Our Future Earth, Mountain Research Initiative, Perth, Scotland, October 4-8, 2015.

**Alcántara-Ayala, I.**, Moreno, A. R., 2015, On the fundamental nature of risk communication for Disaster Risk Reduction in mountain areas: challenges ahead, Perth III: Mountains of Our Future Earth, Mountain Research Initiative, Perth, Scotland, October 4-8, 2015.

**Alcántara-Ayala, I.**, 2015, Disaster Risk Reduction and Climate Change : a challenge for scientific research (Reducción del riesgo de desastres y cambio climático: desafíos para la investigación científica), IV Asamblea Región Centroamericana, Unión de Universidades de América Latina y el Caribe (UDUAL), Universidad Francisco Gavidia, San Salvador, El Salvador, May 25-26. *(In Spanish)*.

Oliver-Smith, A., **Alcántara-Ayala, I.**, Burton, I., Lavell, A., 2015, Forensic Investigations of Disasters 2.0., United Nations World Conference on Disaster Risk Reduction (UNWCDRR), Public Forum on Integrated Research for Disaster Risk, Sendai, Japan, March 14-18.

Carby B., and **Alcántara-Ayala, I.** 2015, Identification of existing advances and linkages of the scientific and academic community initiatives with Disaster Risk Reduction (DRR) in Latinoamerica and the Caribbean (LAC), United Nations World Conference on Disaster Risk Reduction (UNWCDRR), Public Forum on the Role of Higher-Education Institutions (HEIS): Advancing Disaster Risk Knowledge and Building Local Risk Capacity, Sendai, Japan, March 14-18.

Murillo-García, F., Rossi, M., Fiourucci, F., **Alcántara-Ayala, I.**, 2014, Population Landslide Vulnerability Evaluation: The Case of the Indigenous Population of Pahuatlán-Puebla, Mexico, XII Congress of the International Association of Engineering Geology (IAEG), Torino, Italy, September 15-19.

**Alcántara-Ayala, I.**, Oliver-Smith, A., 2014, Migration, Urbanisation and Landslide Disasters in Contemporary Latin America: a Mexican Case Study in the Development and Social Construction of Risk, 2nd IRDR Conference, "Integrated Disaster Risk Science: A Tool for Sustainability," Beijing, China, June 7-9.

Murillo-García, F. G. Fiorucci, F., **Alcántara-Ayala, I.**, 2014, The development of a detailed landslide inventory for a temperate region in Mexico by using very high resolution (VHR) satellite stereo-images World Landslide Forum 3, Beijing, China, June 2-6.

Mikos, M., Rouhban, B., **Alcántara-Ayala, I.**, Li, X., 2014, Introduction: International Programme on Landslides—IPL, World Landslide Forum 3, Beijing, China, June 2-6.

Hernández-Moreno, G., Garnica-Peña, R. J., **Alcántara-Ayala, I.**, 2014, Landslide community mapping and public awareness in the region of Chichonal volcano, Chiapas, Mexico, World Landslide Forum 3, Beijing, China, June 2-6.

Garnica-Peña, R. J., Domínguez-Morales, L., **Alcántara-Ayala, I.**, 2014, Landslide instrumentation and monitoring in Teziutlan, Puebla, Mexico, World Landslide Forum 3, Beijing, China, June 2-6.

Bravo-Carvajal, I., Garnica-Peña, R. J., López-Bravo, L.C., **Alcántara-Ayala, I.**, 2014, Landslide susceptibility mapping using remote sensing and GIS: Nueva Colombia, Chiapas, Mexico, World Landslide Forum 3, Beijing, China, June 2-6.

**Alcántara-Ayala, I.**, Carreño, R., Ávila, G., Godoy, A., 2014, The ICL Latin American Network (ICLLAN): past activities and challenges ahead, World Landslide Forum 3, Beijing, China, June 2-6.

**Alcántara-Ayala, I.**, 2013, The long and winding road towards the implementation of Sound Early Warning Systems, International Workshop on Linking Sustainable Development, Global Migration, Climate Change Adaptation and Disaster Risk Reduction – identifying emerging issues–, University of Lausanne, Switzerland, December 2-4.

Murillo García, F.G., **Alcántara-Ayala, I.**, 2013. Landsliding identification and mapping using Very High-Resolution satellite images for the municipality of Pahuatlan, Mexico, Workshop on Recent Developments in the Analysis, Monitoring and Forecast of Landslides and Debris Flow, Universität für Bodenkultur Wien, University of Natural Resources and Life Sciences, Vienna, Austria.

Murillo-García F., Rossi M., Reichenbach P., Marchensini I., Ardizzone F., Guzzetti F., **Alcántara-Ayala I.**, 2013, Landslide susceptibility analysis and mapping: Pahuatlán-Puebla, Mexico, 8th IAG International Conference on Geomorphology, Paris, France, August 27-31.

Osorno J., **Alcántara-Ayala I.**, Ramos S., Couturier S., Garnica R., Lopez J., 2013, An online atlas as a collaborative and visualization tool for the Geopark proposal of the Chichonal volcano area, 8th IAG International Conference on Geomorphology, Paris, France, August 27 -31, 2013.

De S., Ghosh G.K., **Alcántara-Ayala I.**, Sengupta A., Joshi V., 2013, Landslide Susceptibility in the North District of Sikkim, India, 8th IAG International Conference on Geomorphology, Paris, France, August 27-31, 2013.

Couturier S., Huerta-Luna R., Garnica R., **Alcántara-Ayala I.**, Hernández G., Osorno J., 2013, The socialization of threat information in hazardous areas: a method for the representation of susceptibility to landslides at landholder parcel scale, 8th IAG International Conference on Geomorphology, Paris, France, August 27-31, 2013.

Murillo-García F., Ardizzone F., Fiorucci F., Cardinali M., Mondini A., Rossi M., Guzzetti F., **Alcántara-Ayala I.**, 2013, Landslide identification and mapping based on the interpretation of a stereo pair of Very High Resolution satellite images (VHR) for the production of a landslide inventory for the municipality of Pahuatlan, Mexico, 8th IAG International Conference on Geomorphology, Paris, France, August 27-31, 2013.

Meadows, M.E., Slaymaker, O., Moreira-Munoz, A., Brierley, G., Clifford, N., **Alcántara-Ayala, I.**, 2013, Environmental Change: Perspectives from the Developed and Developing World, 8th IAG International Conference on Geomorphology, Paris, France, August 27- 31, 2013.

**Alcántara-Ayala, I.** 2012, Landslides in Mexico: the need of an integrated LAC endeavor, Regional Workshop on Disaster Risk Management in Latin America and the Caribbean: Towards a project plan for integrated science and risk management for the region, Academia Nacional de Ciencias Exactas, Físicas y Naturales, Buenos Aires, Argentina, September 3-5.

Garnica-Peña, R. J., **Alcántara-Ayala, I.** 2012, Landslides instrumentation and monitoring in volcanic terrains in Mexico: the case of Teziutlán, Puebla, 32nd International Geographical Congress, Cologne, Germany, August 26-30, 2012.

Murillo-García, F. G., **Alcántara-Ayala, I.** 2012, Mass movement risk analysis and mapping in Pahuatlán, municipality of Puebla, México, 32nd International Geographical Congress, Cologne, Germany, August 26-30, 2012.

Fiorucci, F., Ardizzone, F., Murillo García, F. G., Guzzetti, F., **Alcántara-Ayala, I.**, 2012, Visual interpretation of very high resolution (VHR) stereoscopic satellite images for landslide recognition and mapping, Asia Oceania Geosciences Society- American Geophysical Union (AOGS-AGU), (WPGM) Joint Assembly 2012, Singapore, August 13-17.

**Alcántara-Ayala, I.** 2011, A brief journey around the world: can disasters be prevented? Part II, Regional Conference of Young Scientists of TWAS-ROLAC. Trinidad and Tobago December 7-9.

**Alcántara-Ayala, I.** 2011, Geography in the Americas, 2011 International Geographical Union Regional Conference, Santiago de Chile, Chile, November 14-18, 2011.

Garnica Peña, R., **Alcántara-Ayala, I.** (2011) Landslide inventory and mapping on pyroclastic volcanic terrains: a first step into landslide warning systems in Mexico. The Second World Landslide Forum "putting science into practice". Rome, Italy, October 3-9.

Legorreta Paulin, G., Bursik, M., **Alcántara-Ayala, I.**, Lugo-Hubp, J., Zamorano Orozco, J.J., Ramírez-Herrera, M.T., (2011) Landslide inventory and susceptibility mapping in the Río Chiquito-Barranca Del Muerto watershed, Pico de Orizaba volcano, Mexico. The Second World Landslide Forum "putting science into practice". Rome, Italy, October 3-9.

**Alcántara-Ayala, I.** 2011, Latin American Consortium on Landslides: state of the art and challenges, 3rd Session of the Global Platform on Disaster Risk Reduction, International Strategy for Disaster Reduction (ISDR), Geneva, Switzerland, May 9-13.

**Alcántara-Ayala, I.** 2010, Natural Hazards in Latin America and the Caribbean (LAC): From Risk to Opportunity by Partnership of Science and Society, Joint Meeting of the America, Iguassu, Brazil, August 9-11.

**Alcántara-Ayala, I.** 2010, International Geographical Union, the Israeli National Committee for Geography, IGU Regional Conference Tel Aviv 2010, Tel Aviv, Israel, July 12-16.

**Alcántara-Ayala, I.** 2010, A brief journey around the world: can disasters be prevented? 7th Regional Conference of Young Scientists of TWAS-ROLAC. Academia Brasileira de Ciências. Rio de Janeiro, Brazil, May 3-5.

**Alcántara-Ayala, I.**, Garnica Peña, R., Borja Baeza, R. 2010, On the significance of mechanisms of disastrous rainfall triggered landslides. European Geosciences Union, General Assembly, Vienna, Austria, May 2-7.

Dykes, A. and **Alcántara-Ayala, I.** 2009. Geomorphological hazards in Southeast Mexico, Dykes, A., Melbourne Convention and Exhibition Centre, Melbourne, Australia.

**Alcántara-Ayala, I.**, Dykes, A.P. and Garnica-Peña, R.J. 2009. Hurricane Earl, chronicle of a Mexican foretold landslide disaster, 7th International Conference on Geomorphology (ANZIAG), Melbourne Convention and Exhibition Centre, Melbourne, Australia.

**Alcántara-Ayala, I.** 2008. Disaster prevention, needs and perspectives: the case of Mexico (Líneas de trabajo en la temática de prevención de desastres naturales, necesidades y perspectivas: el caso de México), Antigua, Guatemala.

**Alcántara-Ayala, I.** y Vera Sánchez, P. 2007. Earthquake induced landslide disasters in Mexico City (Riesgos de desastre por procesos de remoción en masa desencadenados por sismicidad en la Ciudad de México), Americas Megacities Forum- (EMI) Earthquakes and Megacities Initiative (Políticas de prevención enfocadas a la participación y corresponsabilidad social en caso de sismos, Ciudad de México), Mexico (*In Spanish*).

**Alcántara-Ayala, I.** 2007. Geomorphosites: risk assessment and management. Workshop "Geomorphosites, Geoparks and Geotourism" Lesvos, Greece.

**Alcántara-Ayala, I.** 2007. Magnitude and frequency of landslides: does size matter? Regional Geomorphology Conference, Kota Kinabalu, Malaysia.

Evans, S.G. and **Alcántara-Ayala, I.** 2007. Disasters resulting from landslides, snow avalanches, and geotechnical failures in North America (Canada, United States, and Mexico) 1841-2006: A first assessment. First International Conference Landslides in North America, American Society of Civil Engineers, Vail, Colorado, USA.

**Alcántara-Ayala, I.** 2007. Disaster Prevention: a trans-disciplinarity approach, global scientific challenges: perspectives from young scientists (An international conference celebrating 75 years of ICSU), Lindau, Germany.

**Alcántara-Ayala, I.** 2007. On the historical account of disastrous landslides in Mexico: the challenge of risk management and disaster prevention, Second EGU Alexander von Humboldt International Conference on The Role of Geophysics in Natural Disaster Prevention, Lima, Peru.

Migoñ, P. and **Alcántara-Ayala, I.** 2006. Weathering and landform development in a subtropical hilly terrain, Acapulco, southern Mexico, IAG - Regional Conference on Geomorphology, Goiânia-GO, Brazil.

**Alcántara-Ayala, I.** 2006. Geomorphology and natural hazards (Geomorfología y amenazas naturales), Simposio para la Investigación en Cambios Globales, IIASA-SER-Instituto de Geografía, UNAM, Mexico. (*In Spanish*).

Mendoza-López, M. and **Alcántara-Ayala, I.**, 2005. Landslide disaster risk perception in indigenous communities (Percepción de comunidades indígenas sobre procesos de remoción en masa en la Sierra Norte de Puebla). Conferencia de Geógrafos Latinoamericanistas CLAG, Morelia, Michoacán, Mexico. (*In Spanish*).

Oliva-Aguilar, V.R. and **Alcántara-Ayala, I.** 2005. On the different approaches of disaster risk in rural areas (Los diferentes enfoques de los desastres en zonas rurales). Conferencia de Geógrafos Latinoamericanistas CLAG, Morelia, Michoacán, Mexico. (*In Spanish*).

**Alcántara-Ayala, I.** and Migoñ, P. 2005. Modelling slope instability on weathered granite, Acapulco, Mexico. 6th International Conference on Geomorphology, Zaragoza, Spain.

**Alcántara-Ayala, I.** and Thornes, J.B. 2005. Landslides and hillslope hydrology under varying land-use in the Sierra de Norte de Puebla, Mexico. 6th International Conference on Geomorphology, Zaragoza, Spain.

**Alcántara-Ayala, I.** and Migoñ, P., 2005. Modelling slope instability on weathered granite, Acapulco, Mexico. 6th International Conference on Geomorphology, Zaragoza, Spain.

Migoñ, P. and **Alcántara-Ayala, I.** 2005. Granite weathering, slope instability and associated hazards in subtropical hilly terrain, Acapulco, Mexico, European Geosciences Union General Assembly 2005, Session NH3.07: Slope movements in weathered materials: recognition, analysis, and hazard assessment, Vienna, Austria.

**Alcántara-Ayala, I.** 2005. Natural hazards and risk communication among indigenous communities: the role of women on disaster prevention, Department of Geography and Anthropology, Louisiana State University, USA.

López-Mendoza, M., Melgarejo-Palafox, G. y **Alcántara-Ayala, I.** 2004. Tepet, Tepekonet Amo Xik Pacho No Kalltsi Taxixitika...Tejuan Tikpia Nentajtol (Loma, lomita no sepultes mi casita. Derrumbes... ¡Tú tienes la última palabra!). 3o Seminario Taller Internacional sobre Desastres: Prevención, Mitigación, Tecnología, Gestión, Educación, IPN, México, D.F., Mexico. *(In Spanish)*.

**Alcántara-Ayala, I.** Delgado Campos, J.G. and Parrot, J.F. 2004. Geomorphic hazards and associated disasters: key issues towards the achievement of sustainability. 32 International Geological Congress, Florence, Italy.

**Alcántara-Ayala, I.**, López-Mendoza, M. and Melgarejo-Palafox, G. 2004. Enhancing disaster prevention culture among indigenous communities: an aid tool from the words of the Aztecs. 30 Congress of the International Geographical Union, Glasgow, Scotland.

Bendimerad, F., Wenzel, F., **Alcántara-Ayala, I.** 2004. An integrated disaster management model for large cities. 30 Congress of the International Geographical Union, Glasgow, Scotland.

Delgado-Campos, J., Angeles-Serrano, G., **Alcántara-Ayala, I.** 2004. Vulnerability and risk of peripheral areas in the rural-urban dynamic and its effect on city region sustainability. 30 Congress of the International Geographical Union, Glasgow, Scotland.

**Alcántara-Ayala, I.**, Borja-Baeza, R.C., Marcos-López, J., Mendoza-López, M., Esteban-Chávez, O., Garnica-Peña, R.J. y Sánchez-Titla, E. 2004. Landslide disaster risk assessment at municipality scale (Valoración de riesgos por procesos de remoción en masa a escala municipal en la Sierra Norte de Puebla, México). III Seminario Latinoamericano de Geografía Física, Puerto Vallarta, Jalisco, Mexico. *(In Spanish)*.

Garnica-Peña, R.J., Borja-Baeza, R.C., Marcos López, J. Esteban Chávez, O., Mendoza López, M. y **Alcántara-Ayala, I.** 2004. Flood risks in the municipality of Tecolutla, Veracruz (Riesgos por inundación en el municipio de Tecolutla, Veracruz, México). III Seminario Latinoamericano de Geografía Física, Puerto Vallarta, Jalisco, Mexico. *(In Spanish)*.

Esteban-Chávez, O., **Alcántara-Ayala, I.** y Parrot, J.F. 2004. Spatial-temporal impact of deforestation on landslides in the Sierra Norte de Puebla, Mexico (Impacto espacio temporal de la deforestación en la ocurrencia de procesos de ladera en la Sierra Norte de Puebla), México. III Seminario Latinoamericano de Geografía Física, Puerto Vallarta, Jalisco, Mexico. *(In Spanish)*.

Domínguez-Morales, L., Borja-Baeza, R.C., Esteban-Chávez, O., Garnica-Peña, R.J., López-Mendoza, M., Marcos-López, J., Villarreal-Lugo, P.A., **Alcántara-Ayala, I.** 2003. Hazard and vulnerability: an evaluation of risk associated to landsliding. IGU Conference: Society and Environment Interaction under Conditions of Global and Regional Changes, Moscow and Barnaul, Russia.

**Alcántara-Ayala, I.**, Zamorano-Orozco, J.J., Lugo-Hubp, J., and Melgarejo-Palafox, G. 2003. Mass movement processes in the Sierra Norte, Puebla; dynamics, impact and social effects. IGU Conference: Society and Environment Interaction under Conditions of Global and Regional Changes, Moscow and Barnaul, Russia.

**Alcántara-Ayala, I.**, Alcántara-García, D. and Thornes, J.B. 2003. Erosion, deforestation and landsliding: a geomorphological modelling approach. IGU Conference: Society and Environment Interaction under Conditions of Global and Regional Changes, Moscow and Barnaul, Russia.

Lugo-Hubp, J., Zamorano-Orozco, J.J., **Alcántara-Ayala, I.**, Melgarejo-Palafox, G., Inbar., M. 2003. Mass movement processes in the mountains of Puebla, October 1999 (Remoción en masa en las montañas plegadas del estado de Puebla, México en octubre de 1999). Simposio Internacional de Degradación y Desertificación, COMLAND, El Rodeo-Ambato-Catamarca, Argentina. *(In Spanish)*.

Marcos-López, J., Esteban-Chávez, O., Alcántara-García, D.A. y **Alcántara-Ayala, I.** 2003. Spatial analysis of mass rmovement processes and their relationship with deforestation (Análisis espacial de procesos de remoción en masa y su relación con la deforestación). 9 Encuentro de Geógrafos de América Latina, Mérida, Yucatán, Mexico. *(In Spanish)*.

**Alcántara-Ayala, I.** 2003. Vegetation and slope stability: a perspective for assessing the hazards associated with mass movement processes (Vegetación y estabilidad de laderas: una perspectiva de evaluación de los peligros asociados a procesos de remoción en masa), 9 Encuentro de Geógrafos de América Latina, Mérida, Yucatán, Mexico. *(In Spanish)*.

Carrascal-Galindo, I.E. y **Alcántara-Ayala, I.** 2003. Tourism, vulnerability and natural hazards: a risk perspective in Acapulco, Mexico (Turismo, vulnerabilidad y peligros naturales: una perspectiva de riesgo en Acapulco, México), 9 Encuentro de Geógrafos de América Latina, Mérida, Yucatán, Mexico. *(In Spanish)*.

**Alcántara-Ayala, I.** 2002. Rainfall induced landsliding associated to deforestation: a Mexican portrait. International Geographical Union, Regional Conference, Durban, South Africa.

**Alcántara-Ayala, I.** 2002. Sesismicity as landslide triggering mechanism (La sismicidad como factor desencadenante de inestabilidad de laderas), Earthquakes and Megacities Initiative - Americas Cluster Cities Workshop, México, D.F., Mexico *(In Spanish)*.

**Alcántara-Ayala, I.** 2001. Hazard assessment of rainfall induced landsliding in México. 5th International Conference on Geomorphology (IAG), Tokyo, Japan.

**Alcántara-Ayala, I.** 2001. Geomorphology and natural hazards in the Mediterranean. International Symposium on Land Degradation and Desertification. Instituto de Geografía, UNAM. México, D.F. y Pátzcuaro, Michoacán, México.

**Alcántara-Ayala, I.** 2000. Prevention of natural disasters in Mexico by using new space technology: towards a sustainable development. UN/IAF Workshop on Operational Strategy for Sustainable Development using Space. INPE, Sao José dos Campos, Brazil.

**Alcántara-Ayala, I.** 1999. Modelling slope instability in semi-arid Spain, mining engineering, keynote speaker, Department of Middle East Technical University, Ankara, Turkey.

**Alcántara-Ayala, I.** 1999. Vulnerability and natural disasters in developing countries: a new geomorphological approach. 30th Binghamton Geomorphology Symposium, Geomorphology in the Public Eye. Binghamton N.Y., USA.

**Alcántara-Ayala, I.** 1998. What can earth scientists do to prevent natural disasters beyond researching in the mountains? II International Workshop on Documentation of Mountain Disasters (DOMODIS), Barcelona, Spain.

**Alcántara-Ayala, I.** 1997. Slope stability in semi-arid mountainous terrains: modelling controlling factors. 4th International Conference on Geomorphology (IAG), Bologna, Italy.

**Alcántara-Ayala, I.** and Thornes, J.B. 1996. Structure and hydrology in controlling mass failure in space and time: the case of the Guadalfeo Failures. 8th International Conference and Field workshop on Landslides, Granada., Spain.

**Alcántara-Ayala, I.** and Thornes, J.B. 1996. The environmental dimensions of mass failure in semi-arid Spain. 7th International Symposium on Landslides, Trondheim, Norway.

**Alcántara-Ayala, I.** 1995. Impact of physical, chemical and structural properties of phyllites on mass failure. 17th Postgraduate Symposium, BGRG, University of Leeds, England.

## TRAINING OF STUDENTS

### *Supervised Thesis - PhD (in Spanish)*

2025, Gema de los Ángeles Velásquez Espinoza  
Postgraduate in Geography, National Autonomous University of Mexico (UNAM)  
PhD Thesis: Perception and Communication of Risk Associated with Hurricane Occurrence in Nicaragua

2020, Franny Giselle Murillo García  
Postgraduate in Geography, National Autonomous University of Mexico (UNAM)  
PhD Thesis: Statistical and cartographic elements for the analysis of landslide disaster risk: challenges and opportunities

2020, Ricardo Javier Garnica Peña  
Postgraduate in Geography, National Autonomous University of Mexico (UNAM)  
PhD Thesis: Evaluation of elements at risk due to landslides in the municipality of Teziutlán, Puebla

2012, Patricia Flores Olvera  
Postgraduate in Earth Sciences, National Autonomous University of Mexico (UNAM)  
PhD Thesis: Landslide risk assessment in the municipality of Temoaya, State of Mexico.

2012, Víctor Ramón Oliva Aguilar  
Postgraduate in Geography, National Autonomous University of Mexico (UNAM)  
PhD Thesis: Vulnerability analysis and disasters in Pahuatlan, Puebla

2012, Roberto Carlos Borja Baeza  
Postgraduate in Geography, National Autonomous University of Mexico (UNAM)  
PhD Thesis: Landslides early warning system, Tlatlauquitepec, Sierra Norte de Puebla

2010, Víctor Carlos Valerio  
Postgraduate in Earth Sciences, National Autonomous University of Mexico (UNAM)  
PhD Thesis: Mass movement processes in volcanic rocks: south-western sector of the Mexico's basin

2005, Víctor Manuel Hernández Madrigal (honours)  
Postgraduate in Geography, National Autonomous University of Mexico (UNAM)  
PhD Thesis: Characterization of mass movement processes in the region of Zacapoaxtla, Sierra Norte de Puebla, Mexico

### ***Supervised Thesis - MSc (in Spanish)***

2026, Karla María Hernández Cadena  
Postgraduate in Geography, National Autonomous University of Mexico (UNAM)  
MSc Thesis: Landslide disaster risk perception in times of COVID-19: A student's perspective

2024, Perla Lorena Romero Gaeta (honours)  
Postgraduate in Geography, National Autonomous University of Mexico (UNAM)  
MSc Thesis: Disaster Risk Drivers: A Forensic Analysis of the COVID-19 Disaster in Mexico City

2020, Noemi Sharon Ruiz Cortés  
Postgraduate in Geography, National Autonomous University of Mexico (UNAM)  
MSc Thesis: Landslide disaster risk awareness: a community-based approach

2017, Marco Antonio Pablo Pablo  
Postgraduate in Geography, National Autonomous University of Mexico (UNAM)  
MSc Thesis: Debris flows in the municipality of Ixtacamaxitlán, Puebla, Mexico: a dendrogeomorphological study

2016, Maria Guadalupe Hernández Moreno  
Postgraduate in Geography, National Autonomous University of Mexico (UNAM)

MSc Thesis: Landslide risk perception in Mexico: a research gate into public awareness and knowledge

2016, Felipe de Jesús Juárez Villanueva (honours)

Postgraduate in Geography, National Autonomous University of Mexico (UNAM)

MSc Thesis: Disaster Risk in the municipality of Teziutlán, Puebla: a non-structural diagnosis

2013, Franny Giselle Murillo García (honours)

Postgraduate in Geography, National Autonomous University of Mexico (UNAM)

MSc Thesis: landslide disaster risk analysis and mapping in the municipality of Pahuatlán, Puebla

Prize for the best thesis of Physical Geography, awarded by the Mexican Society of Geography and Statistics

2012, Ana Luisa Hernández García

Postgraduate in Geography, National Autonomous University of Mexico (UNAM)

MSc Thesis: Disaster risk perception of a students' community

2012, Ligia Kams Paniagua

Postgraduate in Geography, National Autonomous University of Mexico (UNAM)

MSc Thesis: Earthquake awareness for students: a proposal from the geography of risks

2011, Gema de los Ángeles Velásquez Espinoza

Postgraduate in Earth Sciences, National Autonomous University of Mexico (UNAM)

MSc Thesis: Geomorphology and social vulnerability of the Municipality of Managua, Nicaragua

2008, José Francisco Sotelo Leyva

Engineering Unit, Master in Sciences, Autonomous University of Guerrero, Mexico

MSc Thesis: Mass movement risk analysis in sprawling, Chilpancingo City, Guerrero

2007, Ricardo Javier Garnica Peña (honours)

Postgraduate in Geography, National Autonomous University of Mexico (UNAM)

MSc Thesis: Mass movement processes: instrumentation, monitoring and modelling

2007, Juan Pablo Oliva Hernández

Central American master programme in risk evaluation and disasters reduction, Geoscientific Research Centre, National Autonomous University of Nicaragua (UNAN)

MSc Thesis: Debris-flow hazard evaluation in the towns of Panabaj and Tzanchaj, Santiago Atitlan, Guatemala

2007, Jovanna Castilla Torres

Postgraduate in Geography, National Autonomous University of Mexico (UNAM)

MSc Thesis: Vulnerability indicators in the Sierras Norte and Noreste of Puebla

2006, Roberto Carlos Borja Baeza (honours)

Postgraduate in Geography, National Autonomous University of Mexico (UNAM)

MSc Thesis: Hillslope instability in Tlatlauquitepec, Puebla: analysis and modelling in sedimentary materials

2005, Víctor Ramón Oliva Aguilar

Postgraduate in Environment, National Polytechnic Institute (CIEMAD-IPN)

MSc Thesis: Disasters prevention in rural areas: Pahuatlan, Puebla

2005, Eloísa Sánchez Titla

Postgraduate in Geography, National Autonomous University of Mexico (UNAM)

MSc Thesis: Vulnerability, deforestation and hillslope instability: a risk evaluation in Zacatlan, Puebla

2004, Verónica Ochoa Tejeda

Postgraduate in Geography, National Autonomous University of Mexico (UNAM)

MSc Thesis: Hillslope instability studies by using Digital Terrains Models and remote sensing.

### *Supervised Thesis - Bachelor's (in Spanish)*

2025, Adán Montes de Jesús (honours)

Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)

Thesis:

2023, Jessica Vargas Posada

Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)

Thesis: Disaster risk management, a geographical perspective to evaluate educational processes

2020, Galdino García Marroquin (honours)

Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)

Thesis: The use of unmanned aerial vehicles for the analysis of landslide exposure at local level: Case study in La Gloria, Teziutlán

2020, Gerardo Cardón Idelfonso

Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)

Thesis: Analysis of landslide exposure through participatory mapping and the use of unmanned aerial vehicles in Huehueymico, Teziutlán, Puebla

2017, Lizeth Lerma Hernández

Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)

Thesis: Landslide risk perception in the San Andrés and Xoloco neighbourhoods, Teziutlán, Puebla: a spatial approach using GIS

2016, Noemi Sharon Ruiz Cortés

Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)

Thesis: Landslide disaster risk assessment: La Aurora, October 1999, Teziutlán Puebla

2016, Esteban López Barrón

Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Thesis: Landslide disaster risk, population growth and territorial planning in the municipality of Teziutlán, Puebla

2016, Alejandro Rogelio Escalante González  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Thesis: Remote sensing applied to landsliding using LIDAR

2015, Rafael Salinas Torres  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Thesis: Human displacement due to landslides disasters in Teziutlán, Puebla: an approach from the geography of risks.

2015, Víctor Bello Carranza  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Thesis: The use of the Light Penetrometer (PANDA) in the identification of potentially unstable hillslopes municipality of Teziutlán, Puebla

2015, Ixtlitzin Yaocihuatl Bravo Carvajal (honours)  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Thesis: Susceptibility to mass movement processes in the municipality of Teziutlán, Puebla

2015, Juan Luis Cordero Vargas (honours)  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Thesis: Spatial analysis of mass movement processes in the urban area of Teziutlán, Puebla

2013, José Alejandro Galindo Serrano  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Thesis: Landslide susceptibility along the road network of the Sierra Nororiental, Puebla

2012, Felipe de Jesús Juárez Villanueva (honours)  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Thesis: Risk perception and urban vulnerability in Teziutlán, Puebla

2012, Matilde Cruz Jerónimo  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Thesis: Strategy to reduce vulnerability to landslides based on the design of a web page

2011, Marco Antonio Miramontes Téllez  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Thesis: Dissemination of Science, a tool for risk communication. Case study: Teziutlán, Puebla

2011, Maria Guadalupe Hernández Moreno  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)

Thesis: Mass movement processes in the municipality of Motozintla, Chiapas

2007, Francisco Gerardo Murillo García  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)

Thesis: Mass movement processes inventory for the south-eastern region of the Sierra Norte, Puebla

2004, Marlene López Mendoza  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)

Thesis: Design of a programme on disasters, mitigation and prevention for floods and landslides in Zapotitlán de Méndez, Puebla

2004, Omar Esteban Chávez  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)

Thesis: Deforestation and landslides in the Sierra Norte de Puebla

2004, Ricardo Javier Garnica Peña, (honours)  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)

Thesis: Floods and landslides risks in Tecolutla, Veracruz

2003, José Marcos López (honours)  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)

Thesis: Landslides distribution and risks in the municipality of Tlatlauquitepec, Puebla

2003, Roberto Carlos Borja Baeza  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)

Thesis: Landslide susceptibility and associated risks, Zacapoaxtla, Puebla

2002, Pablo Flores Lorenzo  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)

Thesis: Hillslope instability in Teziutlan, Puebla

*Short research stays (undertaken by the students in Spanish)*

Ricardo Gabriel Zárate Verde  
Faculty of Graphic Design, National Autonomous University of Mexico (UNAM)  
Community-based approaches for landslide disaster risk reduction  
April 2018 - August 2018

Daniela Magali Cruz Zamudio  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Landslide instrumentation and monitoring.  
October 2015 - May 2016

Anabel Muro Lezama  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Rainfall-induced landslides and disaster prevention.  
April 2014 - October 2014

Esteban López Barrón  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Rainfall-induced landslides and disaster prevention.  
April 2014 - October 2014

Rafael Salinas Torres  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Rainfall-induced landslides and disaster prevention.  
January 2014 - July 2014

Victor Bello Carranza  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Rainfall-induced landslides and disaster prevention.  
January 2014 - July 2014

Juan Luis Cordero Vargas  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Rainfall-induced landslides and disaster prevention.  
January 2014 - July 2014

Felipe de Jesús Almazán Maciel  
Geography College, Academic Unit of Earth Sciences, Autonomous University of Guerrero  
Landslide Assessment and disaster prevention  
February 2013 - June 2013

Oscar Peralta Medina  
Geography College, Academic Unit of Earth Sciences, Autonomous University of Guerrero  
Landslide Assessment and disaster prevention  
February 2013 - June 2013

Víctor Tenorio Pérez  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Landslide Assessment and disaster prevention

November 2012 - May 2013

Gustavo Lucio José  
Faculty of Higher Studies Zaragoza, UNAM  
Landslide Assessment and disaster prevention  
September 2011 - March 2012

Cynthia Paola Santibáñez León  
National School of Anthropology and History  
Landslide Assessment and disaster prevention  
September 2011 - March 2012

Matilde Cruz Jerónimo  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Rainfall-induced landslides and disaster prevention.  
June 2010- November 2010

Rodrigo Carranza Rosales  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Landslide risk and disaster prevention  
April 2003 - November 2003

Omar Esteban Chávez  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Landslide risk and disaster prevention  
April 2003 - September 2003

Ricardo Javier Garnica Peña  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Landslide risk and disaster prevention  
April 2002 - September 2002

Roberto Carlos Borja Baeza  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Landslide risk and disaster prevention  
May 2001 - November 2001

Ma. Luisa Cuevas Fernández  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Landslide risk and disaster prevention  
October 2000 - October 2001

José Manuel Canto Vergara  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)

Landslide risk and disaster prevention  
October 2000- October 2001

**TEACHING (*in Spanish, otherwise stated*)**

Cecilia Limón Hernández  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Landslide risk and disaster prevention  
October 2000 - October 2001

Norma Dávila Hernández  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Landslide risk and disaster prevention  
October 2000 - October 2001

Ivonne Rojas Hernández  
Geography College, Philosophy and Letters Faculty, National Autonomous University of Mexico (UNAM)  
Landslide risk and disaster prevention  
October 2000 - October 2001

**Course Lecturer – Semester courses**

**1. Bachelor's degree (National Autonomous University of Mexico)**

Geography of Disaster Risk  
Geography College, Faculty of Philosophy and Letters, National Autonomous University of Mexico  
Semesters: 2012-2, 2013-2, 2014-2, 2015-2, 2016-2, 2018-2, 2019-2, 2020-2, 2021-2, 2022-2, 2023-2, 2024-2

Applied Geomorphology  
Geography College, Faculty of Philosophy and Letters, National Autonomous University of Mexico  
Semesters: 2012-1, 2014-1, 2015-1, 2016-1, 2017-1, 2019-1, 2020-1, 2021-1, 2022-1, 2023-1, 2024-1, 2025-1

Integrated Disaster Risk Management  
National School of Earth Sciences, National Autonomous University of Mexico  
Semesters: 2025-1

Applied Geomorphology II  
Geography College, Faculty of Philosophy and Letters, National Autonomous University of Mexico  
Semesters: 2001-2, 2002-2, 2003-2, 2004-2, 2005-2, 2006-2, 2007-2, 2008-2, 2009-2, 2010-2, 2011-2

Applied Geomorphology I

Geography College, Faculty of Philosophy and Letters, National Autonomous University of Mexico

Semesters: 2001-1, 2002-1, 2003-1, 2004-1, 2005-1, 2006-1, 2008-1, 2009-1, 2010-1, 2011-1

## **2. Postgraduate studies (National Autonomous University of Mexico)**

Selected topics of physical geography II

Postgraduate studies in geography, National Autonomous University of Mexico

Semesters: 2001-2, 2002-2, 2003-2, 2004-2, 2005-2, 2006-2, 2007-2, 2008-2, 2009-2, 2010-2, 2011-2, 2012-2, 2013-2, 2014-2, 2015-2, 2016-2, 2018-2, 2019-2, 2020-2, 2021-2, 2022-2, 2023-2, 2024-2

Selected topics of physical geography I

Postgraduate studies in geography, National Autonomous University of Mexico

Semesters: 2001-1, 2002-1, 2003-1, 2004-1, 2005-1, 2006-1, 2007-1, 2008-1, 2009-1, 2010-1, 2011-1, 2012-1, 2013-1, 2014-1, 2015-1, 2016-1, 2017-1, 2019-1, 2020-1, 2021-1, 2022-1, 2023-1, 2024-1, 2025-2

Natural and anthropogenic risks

Postgraduate studies in geography, National Autonomous University of Mexico

Semesters: 2012-1, 2014-1, 2015-1, 2016-1, 2017-1, 2019-1, 2020-1, 2021-1, 2022-2

Natural risks

Postgraduate studies in geography, National Autonomous University of Mexico

Semesters: 2002-2, 2003-2, 2004-2, 2005-2, 2006-2, 2007-2, 2008-2, 2009-2

Territorial planning

Postgraduate studies in geography, National Autonomous University of Mexico

Semesters: 2003-1, 2004-1, 2005-1, 2006-1, 2007-1, 2008-1, 2009-1

Assessment of landslide hazards and risks

Postgraduate programme in Earth Sciences, National Autonomous University of Mexico

Semesters: 2007-2, 2009-1

Geo-hazards and vulnerability

Postgraduate studies in geography, National Autonomous University of Mexico

Semester: 2007-2

Geo-information for the assessment and management of multi-hazards risk

Postgraduate studies in geography, National Autonomous University of Mexico

Intensive course: June 2008

Natural dimensions of territorial planning

Postgraduate studies in geography, National Autonomous University of Mexico

Semester: 2001-2

Environmental impact, risk evaluation and disasters in territorial planning

Postgraduate studies in geography, National Autonomous University of Mexico

Semester: 2001-1

### 3. Other courses (Mexico)

II Diploma Integration of Civil Protection Programs  
Instituto Mora-Secretary of Integral Risk Management and Civil Protection of Mexico City  
Geological hazards  
November 2019

I Diploma course: Integration of Civil Protection Programs  
Instituto Mora-Secretary of Integral Risk Management and Civil Protection of Mexico City  
Geological hazards  
August 2019

I Diploma course: Integration of Civil Protection Programs  
Instituto Mora-Secretary of Integral Risk Management and Civil Protection of Mexico City  
Integrated Disaster Risk Management  
August 2019

II Specialized Training Program in Integrated Disaster Risk Management  
Module II The space-time Dynamics of natural and Anthropic threats  
Learning Unit II.6 Slope Instability  
School of Public Administration of Mexico City  
August 2014

I Specialized in Training Program in Integrated Disaster Risk Management  
Module II The space-time Dynamics of natural and Anthropic hazards  
Learning Unit II.6 Slope Instability  
School of Public Administration of Mexico City  
June 2013

II diploma course on Risk Assessment, Territorial Management, and Disaster Prevention  
Institute of Geography, UNAM-National Centre for Disaster Prevention (CENAPRED)  
Theoretical-conceptual framework, disaster risk approaches  
August 2012

Landslide disaster risk  
Intensive course  
Research Centre on Risk Management and Climate Change  
University of Sciences and Arts of Chiapas (Tuxtla Gutiérrez)  
June 2012

I diploma course on Risk Assessment, Territorial Management and Disaster Prevention  
Institute of Geography, UNAM-National Centre for Disaster Prevention (CENAPRED)  
August 2011  
Landslides

I diploma course on Risk Assessment, Territorial Management and Disaster Prevention  
Institute of Geography, UNAM-National Centre for Disaster Prevention  
Theoretical-conceptual framework, disaster risk approaches  
May 2011

Natural hazards

Diploma in Environmental Planning  
Faculty of Urban and Regional Planning  
Autonomous Mexico State University  
December 2001

#### 4. International courses

Landslide Disaster Risk Assessment (*in English*)  
Intensive Course for Young Geomorphologists  
International Association of Geomorphologists (IAG)  
Dehradun, India  
November 12-16, 2017

International Course-Workshop  
Forensic Investigations of Disaster: Landslides, FORIN  
University of Sciences and Arts of Chiapas (UNICACH)  
June 26 - July 5, 2013

Disaster Risk Management  
PhD Programme  
Faculty of Technology and Applied Sciences, University of Catamarca, Argentina  
April 15-19, 2013

Introduction to Landslide Disaster Risk Reduction  
1st ICL-LAN Seminar, Latin American Network of Landslides  
Polytechnic University of Engineering of Honduras (UPI)  
Tegucigalpa, Honduras  
International Consortium on Landslides (ICL)  
March 2013

Vulnerability assessment: landslides  
International course on risk evaluation and landslides warning in Central America  
Antigua, Guatemala  
June 2008

Geomorphology and natural risks  
Central American master programme in risk evaluation and disasters reduction, Geo-  
scientific Research Centre, National Autonomous University of Nicaragua (UNAN)  
UNAN – Managua, Nicaragua  
June 2005

Natural disasters in Mexico (*in English*)  
Master programme in natural risks  
University of Porto, Portugal  
February 2005

Geomorphology and natural risks  
Central American master programme in risk evaluation and disasters reduction, Geo-  
scientific Research Centre, National Autonomous University of Nicaragua (UNAN)  
UNAN – Managua, Nicaragua

February 2003

Hillslope instability  
Association of Engineers and Architects  
San Salvador, El Salvador  
May 2002

Geology (*in English*)  
Department of Civil and Environmental Engineering  
Massachusetts Institute of Technology  
Bachelor's level  
Academic years: 1999, 2000

## **ORGANIZATION OF SELECTED ACADEMIC FORA**

### **International**

UNDRR Regional Platform on Disaster Risk Reduction, The Americas, Punta del Este, Uruguay, February 28-March 2<sup>nd</sup>, 2023

Discussion on Early Warning Systems, October 13 and 14, 2022, Institute of Geography of UNAM.

Online dialogue: Challenges for Disaster Risk Governance and Territorial Governance in the Post-COVID-19 Era, United Nations Office for Disaster Risk Reduction, Regional Office – The Americas and the Caribbean, October 13, 2021.

Online dialogue: Urbanization and Disaster Risk in LAC, United Nations Office for Disaster Risk Reduction, Regional Office – The Americas and the Caribbean, September 20, 2021

Sendai Landslide Partnerships and Kyoto Landslide Commitment, Theme 1, S1.7 Integrated Research on Landslide Disaster Risk: Present and Future, (Irasema Alcántara-Ayala and Qunli Han), World Landslide Forum 5, Kyoto, Japan, November 2020.

Theme 5. Education and Capacity Development for Risk Management and Risk Governance, (Matjaž Mikoš and Irasema Alcántara-Ayala), World Landslide Forum 5, Kyoto, Japan, November 2020.

1st Global Mountain Sustainability Forum, Sustainability Governance: International Frameworks and Local Contributions, Sesto, Italy, October 5-6, 2020.

Symposium of Mountain Studies, 34th International Geographical Congress, Istanbul, Turkey, August 2020.

Workshop of Tools for Natech Risk Management, Disaster Prevention Research Institute, Kyoto University, Uji, Kyoto, March 13th, 2017.

Session on Disaster Risk Reduction, Perth III: Mountains of Our Future Earth, Mountain Research Initiative, Perth, Scotland, October 4-8, 2015.

XLII International Course on Applied Geography, "The Dissemination of Geographical Knowledge through the Study of the Human Population in the Pan American Orb", PAIGH, June 8 to October 9, 2015, online mode.

XLI International Course of Applied Geography "Geomorphology and Management of Landslide Hazards in Latin America", PAIGH, August 12 to December 12, 2014, online mode (Content design and co-organization).

International FORIN Seminar, Forensic Investigations of Disasters, ICSU-IGU, Institute of Geography, February 24 and 25, 2014 (Organizers: Irasema Alcántara Ayala and Anthony Oliver-Smith).

8th IAG International Conference on Geomorphology, Paris, August 27 to 31, 2013 Session S14. Geomorphic hazards, risk management and climate change impact (IAG-WG), Convenors: Irasema Alcántara-Ayala, Sunil Kumar De & Adriana Niz.

International Course-Workshop on Forensic Investigations of Disasters related to the occurrence of Landslides, FORIN, University of Sciences and Arts of Chiapas (UNICACH), June 26- July 5, 2013.

International Congress on Disaster Risks and Sustainable Territorial Development, University of Catamarca, Catamarca, Argentina, April 22-24, 2013 (co-organization).

European Geosciences Union, General Assembly, Session on Natural Hazards, NH3.6, Mechanisms of landslides under seismic and precipitation conditions, Fukuoka, H., Alcántara-Ayala, I., Scarascia-Mugnozza, G., Igwe, O. 2010, (Convenors), Vienna, Austria, May 2-7, 2010.

International Congress of Ecological and Territorial Planning-2009, Institute of Geography-Center for Research in Environmental Geography, Morelia, Michoacán, November 24-28, 2009.

III International Congress of Territorial Studies "The Promotion of Territorial Studies in Latin America" from November 17 to 20, 2008, Acapulco, Guerrero-México.

Regional Geomorphology Conference, "Geomorphic hazards: towards the prevention of disasters", Mexico City, October 27th - November 2nd, 2003.

International Symposium on Land Degradation and Desertification, IGU Commission on Land Degradation and Desertification (COMLAND), Institute of Geography - Institute of Ecology. UNAM, Mexico, D.F. and Pátzcuaro, Michoacán, May 7-14, 2001.

## **National**

1st Multisectoral Meeting towards Integrated Disaster Risk Management (IDRiM): building national public policy, University City Exhibition and Congress Centre of the UNAM, Mexico City, October 21-24, 2019.

Academic dialogues: From the National Civil Protection System to the National System for Integrated Disaster Risk Management: Reflections, Challenges, and Transformation Proposals from the Academy, Geography Institute, UNAM, Mexico City, October 12, 2018.

Multidisciplinary discussion forum: Would you like to change the seismic alert? Institute of Geography, UNAM, Mexico City, June 5, 2018.

Earth Week 2018: The Geo-Lottery at UNIVERSUM (April 22 and 28), the National Preparatory School (April 23 to 27) and the University Olympic Stadium (April 29). Institute of Geography and DGDC-UNIVERSUM. México, April 2018.

Dialogues with the Community. Disasters: beyond the response, Institute of Geography, UNAM, Mexico City, October 6 and 10, 2017.

1st Diploma course on Risk Assessment, Territorial Management and Disaster Prevention”, May 13 to December 9, 2011, Institute of Geography.

1st Diploma course for Geography high School Teachers, January 15 to September 3, 2011, Institute of Geography, UNAM.

3rd OTEAR Workshop Territorial Observatory of Hazards and Risks, Chichón Volcano Geopark, June 21-22, 2011, Institute of Geography, UNAM.

2nd OTEAR Workshop Territorial Observatory of Hazards and Risks, Chichón Volcano Geopark, January 17-18, 2011, Institute of Geography, UNAM.

Forum Landslide and flood disaster risks in the Chichonal region: a meeting between science and society, UNICACH, Tuxtla Gutiérrez, Chiapas, November 22, 2010, University of Sciences and Arts of Chiapas (UNICACH) - Institute of Geography, UNAM.

1st OTEAR Workshop Territorial Observatory of Hazards and Risks, Chichón Volcano Geopark, April 15-16, 2010, Institute of Geography, UNAM.

Multidisciplinary Meeting Interactions of Planet Earth, Session: Integral Effect of Earth and life in it, UNAM, Mexico City, October 29-31, 2008.

VII National Meeting of Geomorphology, Mexican Society of Geomorphology, Centre for Research in Environmental Geography (CIGA), Morelia Michoacán, November 26-29, 2007.

The party of Gea, Cycle of Conferences to commemorate Earth Day, Institute of Geography, UNAM, April 24, 2006.

Geomorphology Fluvial Course and River Management, Mexican Society of Geomorphology, April 17-22, 2006.

III National Meeting of Earth Sciences and VII National Meeting of Geomorphology, Puerto Vallarta, Jalisco, November 4 to 8, 2002.

5th Seminar on Territories, Institute of Geography, UNAM, October-November 2002.

4th Seminar on Space, risk and society, Institute of Geography, UNAM, December 4, 2001.

VI National Meeting of Geomorphology, Institute of Geography, UNAM, May 7 and 8, 2001.

## **POPULAR SCIENCE**

Over one hundred conferences, radio, television, and newspaper interviews were conducted in Mexico, Nicaragua, Guatemala, El Salvador, Colombia, Austria, Slovenia, Switzerland, the United Kingdom, China, and Japan.

# **From Signals to Meaning: Risk Understanding at the Heart of Early Warning and Preparedness**

*Why Warnings Only Work When They Are Understood*

Irasema Alcántara-Ayala  
Institute of Geography  
National Autonomous University of Mexico

## **Abstract**

Early Warning Systems (EWS) have advanced rapidly in hazard monitoring, forecasting, and alert dissemination, underpinning global ambitions such as the WMO-led Early Warnings for All (EW4All) initiative. Yet persistent and, in many contexts, rising disaster losses demonstrate that timely warnings alone do not guarantee effective risk reduction. This contribution argues that early warning must be accompanied by early understanding—an understanding of how risk is produced, differentiated, and governed within specific social, institutional, and territorial contexts. Drawing on integrated disaster risk research and social science perspectives, the paper advances the concept of articulated, people-centred early warning systems, in which physical and social sciences, governance arrangements, and community knowledge are actively connected rather than operating in parallel. Within this framing, risk communication is understood as a locally grounded process of sense-making and interaction, rather than the linear transmission of alerts. Persistent gaps in articulation across scientific domains, policy scales, and societal actors continue to constrain the translation of warnings into meaningful and timely action, particularly among populations facing structural vulnerability. By reframing EWS as socio-technical systems embedded in ongoing processes of risk creation and risk reduction, this perspective contributes to EW4All’s vision by strengthening the relevance, inclusivity, and effectiveness of people-centred early warning as a foundation for sustainable disaster risk reduction.

## PUBLICATIONS

### Journal publications (peer-reviewed, included in Web of Science and SCOPUS)

Alcántara-Ayala, I., Sánchez-Salazar, M. T., Garnica-Peña, R. (2026). Reimagining Geography Education through Challenge-Based Learning: Insights from Pre-University Students in Mexico in the Global South, *Geography in Higher Education*, 10.1080/03098265.2026.2637881 **(Web of Science)**

Alcántara-Ayala, I. (2026). Landslides, knowledge, and shared learning for safer societies. *Landslides*, 1-4. **(Web of Science)**

Alcántara-Ayala, I. (2026). Disaster mapping: a forensic-geographic perspective on the root causes and drivers of disaster risk. *Finisterra*, 61, e41846-e41846. **(Web of Science)**

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