

RODOLFO HERNÁNDEZ-PÉREZ
6312 73RD ST. 0810, Lubbock, TX 79424
(806) 281-8501 | Rodolfo.Hernandez@ttu.edu

EDUCATION

- Ph.D. in Philosophy of Science** **Jun. 2017**
Tsinghua University - Institute of Science, Technology, and Society. Beijing, China
Thesis: "Experts and the Public in the Age of Air Quality Governance in China"
Advisors: Zhengfeng Li & Kim Fortun
- MA in Philosophy of Science and Technology** **Jun. 2012**
Huazhong University of Science and Technology. Department of Philosophy. Wuhan, China
Thesis: "A Philosophical Reflection of Risk and Uncertainty in Environmental Systems"
- Spec. in Multimedia Design** **Sep. 2008**
Universidad Nacional de Colombia. Bogota, Colombia
- BA in Anthropology (Minor in Political Science)** **Sep. 2006**
Universidad de Los Andes. Bogota, Colombia

RESEARCH EXPERIENCE

- Texas Tech University, Lubbock, TX** **Sep. 2022 – Present**
Senior Research Associate at the Department of Geosciences, Program in Geography
- PI: "Social-Wildfire Vulnerability Affecting Spanish-Speaking Populations in the Texas Wildland Urban Interface" (Weather Ready Research Award, Natural Hazards Center at the University of Colorado Boulder with the support of the National Science Foundation). Jan. 2024 - Apr. 2024.
 - Co-PI: "Hurricane Naming Conventions and Bilingual Audiences: Characterizing Spanish-Speaking Broadcast Meteorologists' Challenges Communicating Multiple Hazards in Landfalling Tropical Cyclones" (National Oceanic & Atmospheric Administration (NOAA) Fiscal Year 2023, Weather Program Office Research Programs). Aug. 1, 2023 – Jul. 31, 2025.
 - Co-PI: "GP-IN: Air Across Texas: Scattered and Supported: A Program Introducing Underrepresented High School Students to Air Quality" (National Science Foundation NSF023-540). Jan. 1, 2024 – Dec. 31, 2026.
- Texas Tech University, Lubbock, TX** **Oct. 2021 – Aug. 2022**
Postdoctoral Researcher Associate
- Project: "Improving Knowledge about NWS Forecaster Core Partner Needs for Reducing Vulnerability to Compound Threats in Landfalling Tropical Cyclones Amid Covid-19." National Oceanic & Atmospheric Administration (NOAA) Fiscal Year 2021, Weather Program Office Research Programs. Award# NA21OAR4590214). Aug. 2021 – Jul. 2024.
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- Universidad de Cundinamarca, Fusagasugá, Colombia** **Sep. 2020 – Sep. 2021**
Postdoctoral Research Scientist
- PI: "Geospatial Tool for the Construction of Social and Environmental Assessment of Sylvania's Municipal and Territorial Plan (Colombia)" (Ministry of Science, Technology, and Innovation of Colombia, Postdoctoral National Grant).

Universidad de Cundinamarca, Fusagasugá, Colombia

Sep. 2019 – Feb. 2020

Research Professor

- PI: "Geospatial Tool for the Construction of Social and Environmental Assessment of Sylvania's Municipal and Territorial Plan (Colombia)" (Ministry of Science, Technology, and Innovation of Colombia, Colombia BIO).

Ministry of Science, Technology and Innovation, Bogota, Colombia

Oct. 2018 – Aug. 2019

National Research Coordinator

- Public Policy Building Process: Social Appropriation of Science, Technology, and Innovation.

Universidad Manuela Beltrán, Bogota, Colombia

Nov. 2017 – Dec. 2018

Research Professor

- Researcher: "Industrial Dynamics of Audiovisual Sector in Bogotá" (National Cinematographic Fund Grant, 2017).

Rensselaer Polytechnic Institute, Troy, NY

Sep. 2015 – Sep. 2017

Department of Science and Technology Studies

Visiting Scholar

- Project: "Environmental Health Governance in Six Cities: How Scientific Cultures, Practices, and Infrastructure Shape Governance Styles" (National Science Foundation NSF, 1535888). Aug. 2015 – Feb. 2017.

TEACHING EXPERIENCE

Texas Tech University, Lubbock, TX

2023 - Present

Instructor

- Qualitative Mapping Research, Methods, and Theory (graduate level). Spring 2024
- Qualitative Mapping: Research, Methods, and Communication (undergraduate level). Spring 2024
- Senior Seminar in Geography (undergraduate level). Spring 2023

Universidad Manuela Beltran, Bogota, Colombia

Spring 2018

Instructor

- Mixed-Methods Research (undergraduate level)

PUBLICATIONS

Porter, M., **Hernández, R.**, Checkoway, B., Nielsen, E. R., Williamsberg, C., Eosco, G., Christian, K., Morris, A., Cej, E. G., Patelski, K., & Henderson, J. (2024). Expanding the Concept of Knowledge Transition through Social Science Research. (published online ahead of print 2024). *Bulletin of the American Meteorological Society*. <https://doi.org/10.1175/BAMS-D-23-0310.1>

Salkhi Khasraghi, G., Volchenkov, D., Nejat, A., **Hernandez, R.** (2024). University Campus as a Complex Pedestrian Dynamic Network: A Case Study of Walkability Patterns at Texas Tech University. *Mathematics*. 12(1):140. <https://doi.org/10.3390/math12010140>

Hernandez, R., Bode, A., & Henderson, J. (2022). Envision: Cartographies of Risk in Lubbock. *Visualizar: Cartografías sociales del riesgo*. Risk, Equity & Disaster (RED) Lab. <https://doi.org/10.17603/ds2-ye2p-8y77>

Hernández, R. (2020). China's Air Pollution Meets Public Participation and Citizen Science. *Journal of Peer Production*, 14, 87–104. URL: <http://peerproduction.net/editsuite/issues/issue-14-infrastructuring-the-commons-today-when-sts-meets-ict/peer-reviewed-papers/chinas-air-pollution-meets-public-participation-and-citizen-science/>

Hernández, R. 2015. 'Prevention and Control of Air Pollution in China: A Research Agenda for Science Technology Studies.' *S.A.P.I.EN.S*, 8 (1). URL: <http://sapiens.revues.org/1734>

Medina, A., Tamayo, C, et al. 2008. Las elecciones de la prensa: agenda informativa y calidad periodística. **Rodolfo Hernández** (ed.). Bogotá: Medios para la paz. ISBN: 978-958-44-2956-8

Hernández, R., & Salamanca, N. (2007). Colombia: Desetiquetar la guerra sexual. Actualidad Colombiana. Centro de Investigación y Educación Popular –CINEP– (2007). En línea: <http://reliefweb.int/report/colombia/colombia-desetiquetar-la-guerra-sexual>

Cardozo, D, **Hernández, R.** (2006). “Las estrategias electorales en las elecciones legislativas del 12 de marzo de 2006.” En: Colombia Internacional. 64, Jul-Dec 2006. Departamento de Ciencia Política, Universidad de Los Andes, Bogotá. <https://doi.org/10.7440/colombiaint64.2006.08>

Hernández, R., Abadía-Barrero, C., González, F. et Pinilla M. 2006. “Niñez y SIDA en Latinoamérica: Lecciones aprendidas, Desafíos y Posibilidades”. Revista digital Creciendo Unidos. Red del Grupo Consultivo para la Primera Infancia en América Latina.

FELLOWSHIP, AWARDS & HONORS

Weather Ready Research Award, sponsored by the Natural Hazards Center at the University of Colorado Boulder with the support of the National Science Foundation. **Project:** “Social-Wildfire Vulnerability Affecting Spanish-Speaking Populations in the Texas Wildland Urban Interface.” Jan. – Apr. 2024.

TTU Department of Geosciences seed funding. Establishing a Geospatial Creativity and Social Mapping Program and Lab. Nov. 2024.

TTU Open Educational Resources Adoption Incentive Grant. Design the OER course “Qualitative Mapping Research, Methods, and Theory.” May 2023 – May 2024.

National Science Foundation – GEOpaths (NSF 23-540). **Project:** “GP-IN: Air Across Texas: Scattered and Supported: A program introducing underrepresented high school students to air quality.” Jan. 2024 – Dec. 2026.

National Oceanic and Atmospheric Administration (NOAA), Fiscal Year (FY) 2023 Weather Program Office Research Programs. **Project:** “Hurricane Naming Conventions and Bilingual Audiences: Characterizing Spanish-Speaking Broadcast Meteorologists' Challenges Communicating Multiple Hazards in Landfalling Tropical Cyclones.” Aug. 2025 – Jul. 2025.

Hooke Fellow in Policy and Leadership. 2022 American Meteorological Society Summer Policy Colloquium. Jun. 5 -10, 2022. Washington D.C.

Colombia's Postdoctoral Research Grant, 2020-2021. Ministry of Science, Technology, and Innovation of Colombia. Bogota, 2020. **Project:** "Geospatial Tool for the Construction of Social and Environmental Assessment of Silvania's Municipal and Territorial Plan (Colombia)." Sep. 2020 – Sep. 2021.

ColombiaBIO – Ministry of Science, Technology, and Innovation (Colombia): "R&D projects for the technological development of a biological basis that contribute to the challenges of the Department of Cundinamarca. **Project:** Geospatial Tool for the Construction of Social and Environmental Assessment of Silvania's Municipal and Territorial Plan (Colombia)." Sep. 2019- Sep. 2021.

Chinese Scholarship Council / Beijing-Tsinghua Scholarship. International Doctorate Scholarship. 2012-2017. Beijing, China.

CONFERENCE PRESENTATIONS

Hernandez, R., Henderson, J., & Nielsen, E. "Beyond Linguistic Translations: Old and New Roles of Bilingual Broadcast Meteorologists in the US." American Meteorological Society 104th Annual Meeting, Baltimore, MD, Jan. 28 – Feb. 1, 2024.

Henderson, J., **Hernandez, R.,** Nielsen, E., Porter, M. & Checkoway, B. "Transitioning Social Science Research to Expert Workplaces. Workshop Findings and Future Needs." American Meteorological Society 104th Annual Meeting, Baltimore, MD, Jan. 28 – Feb. 1, 2024.

Henderson, J., **Hernandez, R.,** & Nielsen, E. Transitioning Social Science Research to Expert Workplaces. American Meteorological Society 104th Annual Meeting, Baltimore, MD, Jan. 28 – Feb. 1, 2024.

Hernandez, R. Assembling Notions of Spatial (re)Configurations (Panel Chair). Society for Social Studies of Science 4S Annual Conference. Honolulu, HI. Nov. 8-11, 2023.

Hernandez, R. Lubbock's Socioenvironmental Hazards Revisited: A Century of Old-New Racial Disparities. XII Race, Ethnicity, and Place (MAD-AAG Joint Conference). Washington D.C. Oct. 12-13, 2023.

Hernandez, R., Henderson, J., & Nielsen, E. What is Social Science? / Tornadoes and Flash Floods (TORFFs): Preliminary Results. Research Knowledge Transitions & Compound Hazards. Generating Ideas for Adapting Social Science to Your Workspace. Jun. 6 -7, 2023. Virtual Workshop.

Hernandez, R. Data Management and Ethical Commitments in Qualitative Research. 103rd Annual Meeting American Meteorological Society. Denver, CO. Jan. 12, 2023.

Hernandez, R. Disentangling the Nature of Compound in Environmental Disasters (Panel organizer). Society for Social Studies of Science 4S Annual Conference. Cholula, Mexico. Dec. 7-10, 2022.

Hernandez, R., Henderson, J. Epistemic Diversity: RED Lab as an Experiment. 7th Texas Tech University Hispanic/Latinx Research and Creativity Symposium. Lubbock, TX. Mar. 30, 2022.

Hernandez, R., Ortiz Cardona, M. Let's Talk about the DIM Words: A Social Communication of Science Workshop. 7th Texas Tech University Hispanic/Latinx Research and Creativity Symposium. Lubbock, TX, Mar. 30, 2022.

Hernandez, R. Planeación territorial y construcción de paz en Silvania -Colombia: reflexiones desde el diagnóstico socioambiental geoespacial participativo. Esocite-Lalics, Virtual Annual Congress. Apr. 19-23, 2021.

Hernandez, R. "Calculating Futures: The Afterlives of Environmental and Health Monitoring." (Roundtable Presenter). Society for Applied Anthropology-Virtual Annual Meeting. Mar. 22-27, 2021.

Hernandez, R., Andrade, E. Is there a New PLACTS Wave? Towards a Stocktaking of Current Latin American STS Thought. Panel organizer. Society for Social Studies of Science 4S Annual Conference. New Orleans, LA. Sep. 4-7, 2019.

Hernandez, R. Science and Technology Theater in a Political Context. Keynote Speaker. Science Events Summit. St. Petersburg, FL. Jun. 3-5, 2018.

Hernandez, R. How Naive Experts Use Citizen Science to Cope with Air Pollution in China. Society for Social Studies of Science 4S Annual Conference. Boston, MA. Aug. 30 – Sep 2, 2017.

Hernandez, R. Catching-up, Falling Apart, or Some of Both?: Latin America (Social) Science Meets a World Perspective. Colloquium Coordinator and Presenter. Colloquium Latin America in Cultural Perspectives (Department of Science and Technology Studies, Rensselaer Polytechnic Institute. Troy, NY. May 26, 2016.

Hernandez, R. Disclosure, Openness, and Transparency: China's Activists on Environmental Data. The Biennial Meeting of the Society for Cultural Anthropology. Cornell University, Ithaca, NY. May 13-14, 2016.

Hernandez, R. Environmental Disclosure and Scientific Community in China. Society for Social Studies of Science 4S Annual Conference. Denver, CO. Nov. 11-14, 2015.

Fortun, K., **Hernandez, R.** "Long Term Management of Chronic Disasters." (Panel commentator). Inter-Asia Roundtable Governance of Health in Disasters: Perspectives on Asia. Asia Research Institute, National University of Singapore. Oct. 18, 2014.

Hernandez, R. The Problematic Adoption of an Air Quality Index in China. Society for Social Studies of Science 4S Annual Conference. Buenos Aires, Argentina. Aug. 20-23, 2014.

Hernandez, R. Defining a Smoggy Problem: Air Pollution Index in China and the Problem of Scientific Consensus. STGlobal: An Interdisciplinary Graduate Student Conference in Science & Technology in Society. Washington, USA, Apr. 4-5, 2014.

Hernandez, R. Let the Water Flow to the City: A Recent History of the Water Saving Technologies for Agriculture in China. 14th Congress of Logic, Methodology, and Philosophy of Science. Nancy, France. Jul. 19-26, 2011.

OTHER RELEVANT PROFESSIONAL EXPERIENCE

Federación Nacional de Ganaderos (Fedegan), Bogota, Colombia
Project Evaluator

Aug. 2019-Mar. 2020

- Evaluation of the 10-year project "Sustainable Livestock Farming" (Ganadería Colombiana Sostenible -GCS-), supported by CIPAV and sponsored by the World Bank.

British Council, Bogota, Colombia
Project Evaluator

Mar. 2018

- Evaluation of the Supporting Young Offenders in Colombia (SYOC) Project.

Universidad de Los Andes, Bogota, Colombia
Research Consultant

Dec. 2017 – Feb. 2018

- Pilot City: Association of Alcohol Consumption and Quarrels (Ciudad piloto: consumo de alcohol y su asociación en riñas).

Medios Para la Paz, Bogota, Colombia
Research Coordinator

Jan. 2007-Aug. 2008

- Design, plan, coordinate, and execute research projects related to journalism and human rights in Colombia.
- Budget administration of research projects.

Universidad de Los Andes. Department of Political Sciences, Visible Congress
Bogota, Colombia

Sep. 2006-Dec. 2006

Researcher

- Data coding and analysis on peace-building legislative bills.
- Write research reports.

TRAINING

University of Vienna. Vienna International Summer University / Scientific World Conceptions. VISU/SWC 2012. A “Climate Studies.” July 1-13, 2013.

University of Vienna. Vienna International Summer University / Scientific World Conceptions. VISU/SWC 2012. “Applied Science. Historical, Epistemological, and Institutional Characteristics.” July 2-12, 2012.

University of Vienna. Vienna International Summer University / Scientific World Conceptions. VISU/SWC 2011. “The Nature of Scientific Evidence.” July 4-11, 2011.

PROFESSIONAL SERVICE, LEADERSHIP, AND MEMBERSHIPS

2024 **Ambassador.** American Meteorological Society (AMS) Committee on Hispanic and Latinx Advancement (CHALA).

2023-Present **Chair of the Collective Committee.** Journal of Disasters Studies (Penn Press)

2021-Present **Co-Director.** Risk & Equity in Disasters (RED) Lab.

2022-2024 **Society member.** American Meteorological Society (AMS)

2022-2024 **Society member.** American Association of Geographers (AAG).

2015-Present **Society member.** The Society for Social Studies of Science 4S.

2020-Present **Research Collaborator.** The Disaster-STS Network.

2019- Present **Colectivo Clackers of Communication and Engagement in Science.** Co-Founder and Director.

2020-2022 **Research collaborator.** Transnational STS COVID-19 Project.

2015-2017 **Research collaborator.** The Asthma Files.

Languages

Spanish (Native)

English (Fluent)

Chinese Mandarin (Fluent)

Google Scholar: <https://scholar.google.com/citations?user=huXIO0MAAAAJ&hl=en#>

ResearchGate: <https://www.researchgate.net/profile/Rodolfo-Hernandez-16>

Orcid: <https://orcid.org/0000-0003-3837-1424>