

# FRANCISCO JOSÉ SARMIENTO

## DISASTER PUBLIC HEALTH PHYSICIAN

### CONTACT

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### EXPERTISE

Risk analysis  
Community preparedness  
Safety and health promotion  
Research methods  
Public health program planning  
Hospital disaster risk management  
Public health preparedness  
Emergency response  
Knowledge management  
Training design  
Evidence-based decision making  
Training and Education  
Cultural competency  
Coordination of Field activities

### TECHNOLOGY

Microsoft Office  
SPSS  
Mac / Windows  
Social Media

### LANGUAGES

Spanish - Native  
English - Advanced

I am a passionate, intellectually restless, highly creative and humane disaster physician. I have extensive experience working with communities, hospitals and public health organizations in disasters preparedness and response.

Both, my passion and my talent revolve around learning from disasters and sharing the knowledge in simple and practical ways. Research education and experience give me competence to carry out essential disaster-related activities such as risk analysis, early warning systems, damage and needs assessments, and program monitoring and evaluation. Seeking a stable job where I can serve with knowledge and kindness.



### EDUCATION

- Doctorate in Disaster Science and Management**  
*University of Delaware / Newark, DE, USA / 2021*  
Dissertation title: Challenges, barriers and facilitating factors for disaster resiliency in Bogota's middle and high complexity hospitals.  
Committee: James Kendra (Chair), Tricia Wachtendorf [pending other members]
- Master in Public Health**  
*Braun School of Public Health & Community Medicine / Hebrew University of Jerusalem / Israel / 2013*  
Thesis title: Gap analysis of the disaster health response strategy of the Colombian Red Cross.
- Specialization in General Epidemiology**  
*El Bosque University / Colombia / 2012*  
Thesis title: Characterization of Bogota's Hospital Volunteer Emergency Brigades
- Master of Science in Disaster Medicine (European Master in Disaster Medicine)**  
*Università del Piemonte Orientale/Free University of Brussels / Italy/Belgium / 2011*  
Thesis title: Family earthquake preparedness of Bogotá's Emergency response personnel and influencing behavioral factors.
- Advanced Postgraduate Diploma on Telemedicine and Medical Informatics**  
*Centre for the Development of Advanced Computing/ITEC / Mohali, India / 2010*
- Doctor in Medicine**  
*"Nueva Granada" Military University / Colombia / 2004*  
Internship year
  - *Internal Medicine, surgery, anaesthesiology.*  
*"Fundación Santa Fe de Bogotá" University Hospital / Bogotá, Colombia*
  - *Disaster Medicine.*  
*Centre for Medical and Paramedical training based on simulators (CEMPAS) - CES*
  - *Clinical Toxicology.*  
*San Vicente de Paul" University Hospital / Medellín, Colombia*
  - *Trauma Emergencies Unit*  
*"Evaristo García" Valle´s University Hospital / Cali, Colombia*
  - *Prehospital care / Disaster Risk management.*  
*District Health Secretariat – Bogotá's Emergencies Regulation Center / Bogotá, Colombia*



## EXPERIENCE

09/2017 – present

### Research Assistant

*Disaster Research Center / University of Delaware / USA*

- Conducted literature reviews on critical health facilities' disaster resilience, role abandonment.
- Designed first drafts interview guidelines
- Carried out interviews with hospital and nursing home administrative staff.
- Submitted projects to the Institutional Review Board

01/2017 - 08/2017

### Leader of Education in Disaster Risk Management

*Colombian Red Cross - Cundinamarca and Bogota Chapter/ Colombia/ 2017*

- Designed and taught innovative disaster risk management courses.
- Led of a team responsible of course marketing and management.
- Coordinated the group instructors in disaster management courses.
- Developed disaster and first aid courses syllabus, educational materials and presentations for instructors.
- Managed the search and rescue training center.
- Coordinated a field mission to carry out post disaster research interviews

01/2015 - 01/2017

### Consultant in Business and Hospital Disaster Risk Management

*Emergencies, Safety and Support/ Colombia/ 2015-2017*

- Met with clients to present portfolio and discuss proposals
- Developed proposals and budgets for disaster risk management projects for businesses and hospitals
- Executed disaster risk management processes and documentation in business organizations and hospitals
- Developed and executed trainings and simulated exercises with business and healthcare organization emergency committees and staff
- Developed and coordinated realistic disaster simulation games and exercises with over 100 integrated simultaneous participants
- Developed and implemented mixed methods hospital disaster risk evaluation studies in six hospitals
- Wrote Technical risk management documents

10/2013 - 02/2015

### Member of the Risk Management and Immediate Response Team

*Public Health Surveillance and Risk Analysis Directorate / National Institute of Health / Colombia 2013-2014*

- Co-authored of various technical public health risk management guidelines
- Co-wrote daily and weekly Chikungunya Epidemic follow up bulletins.
- Carried out nation-wide consultancies and trainings to public health agencies
- Participated in the development of the Early Warning System for Public Health Emergencies for Colombia.
- Participated in several analysis units, epidemiologic field investigations and follow-up of emergencies, outbreaks and alerts.
- Coordinated a field study with vulnerable disperse communities during a shortage emergency due to blockade in Guajira, Colombia

12/2011 – 06/2012

### Lead instructor of the technological career of Risk Management and Prehospital care.

*National Learning Center (SENA) / Center of Human Talent for health / 2011-2012*

- Organized lesson plans and
- Coordinated different courses and clinical rotation

# FRANCISCO JOSÉ SARMIENTO

02/2011 – 06/2017

## Lecturer of "Public health preparedness and response in Disasters"

*Master of Risk Management and Development / School of Military Engineers / Colombia*

- Developed of the course syllabus, teaching and student evaluation activities
- Worked as an advisor of students during their master's thesis process
- Organized the 30-year commemoration seminar of the Armero disaster
- Co-organized the 1<sup>st</sup> International Disaster Risk Management conference

02/2015 – 06/2017

## Lecturer of the "Disaster Epidemiology" course

*Master of Epidemiology / "El Bosque" university / Colombia*

- Developed the course syllabus,
- Taught and evaluated students

06/2012 – 07/2012

## Physician of a humanitarian mission in a complex humanitarian emergency due to the internal armed conflict.

*Colombian Red Cross – Norwegian Red Cross / Cauca, Colombia / 2012*

- Provided healthcare to communities in conflict areas following a strict security code and humanitarian principles
- Solved medical problems in austere environments.
- Collected, analyzed and reported basic healthcare statistics

10/2008 – 09/2012

## Hospital Disaster Preparedness Coordinator

*"Santa Clara" High Complexity Public Hospital / Colombia 2008-2012*

- Led the hospital volunteer emergency brigade
- Developed and improved plans and procedures
- Organized the hospital internal emergency system
- Implemented the Hospital Incident Command System
- Created and coordinated a network of hospitals to prepare together for disasters
- Trained of all hospital staff in disaster risk management
- Planned and implemented different types of simulated disaster exercises
- Organized the conference "Lessons learned from the 2010 Haiti Earthquake"
- Coordinated the preparedness and response to incidents

10/2007 – 05/2008

## Advanced Life Support ambulance Physician

*"El Tunal" High Complexity Public Hospital / Colombia*

- Led the Ambulance Crew
- Managed the prehospital care of patients requiring advanced life support

08/2007 – 09/2007

## Physician during the health response to Pisco's earthquake

*Colombian Red Cross / Peru*

- Carried out medical primary healthcare consultations in affected communities and shelters
- Organized medical donations in a functional system
- Trained Peru's Red Cross Staff and community
- Reported of daily activity statistics

02/2006 – 02/2007

## Research Assistant

*School of Medicine - Universidad de los Andes / Colombia*

- Collected field data of fitness tests in schools and lifestyle surveys among medical students
- Reviewed the Literature and writing documents
- Applied to research grants

06/2005 – 02/2006

## Mandatory social service year physician

*"Ayacucho" Infantry Battalion / Manizales, Colombia 2005-2006*

- Provided primary healthcare consultation to active and retired military and their families
- Coordinated the Logistics of several healthcare brigades to vulnerable populations

## CONTINUING EDUCATION

- 2020 G-191 Incident Command System / Emergency Operations Center Interface (8h). **DEMA**
- 2020 IS-00800.c National Response Framework. **FEMA**
- 2020 IS-00200.c Basic Incident Command System for Initial Response. **FEMA**
- 2019 Planning for Disaster Debris Management (8h). **National Preparedness Training Center / University of Hawaii.**
- 2019 EOC-101 Introduction to the Emergency Operations Center (4h). **DEMA**
- 2017 Responsible Conduct of Research. **CITI**
- 2017. Human Subjects Protections - Social-Behavioral-Educational Focus. **CITI**
- 2013 Course of disaster and crisis medicine (Israel) (24h). **Hebrew University of Jerusalem**
- 2013 Workshop on Geographical Information Systems (GIS) (Israel). **Hebrew University of Jerusalem**
- 2013 Management of Emergency Situations (Israel) (14 days). **International Institute for Leadership at Histadrut.**
- 2013 Americas Field School (Dominican Republic, Haitian border – cholera epidemic context) (17 days) **Pan American Disaster Relief Unit (PADRU) – International Federation of the Red Cross (IFRC).**
- 2012 XX International Course of Intermediate Epidemiological methods (80h). **National Institute of Health (Bogotá).**
- 2010 Advanced Medical Response in Disasters (AMDR) (16h). **Colombian and Pan American Trauma Association.**
- 2010 Damage Assessment and Need Analysis in Disasters (24h). **OFDA / Colombian Red Cross.**
- 2010 Risk Management course (24h). **OFDA / Colombian Red Cross.**
- 2010 National Intervention Teams in Disasters and Epidemics (70h). **Colombian Red Cross / USAID / CREPAD.**
- 2010 Incident Command System, Intermediate Level (40 h). **OFDA / Colombian Red Cross / Bogotá.**
- 2010 Advanced Postgraduate Course on Telemedicine and Medical Informatics (Mohali, India) (2 months). Centre for the Development of Advanced Computing/ITEC 2010.
- 2009 Basic Incident Command System (16h). **OFDA – District Health Secretariat / Emergencies' Regulation Center.**
- 2009 First Responder in Hazardous Materials Incidents (8h). **“Nueva Granada” Military University/DGM-Matpel.**
- 2007 Advanced Cardiac Life Support (ACLS). **Colombian Red Cross - National Resuscitation Committee – AHA**
- 2007 Advanced Trauma Life Support (ATLS). **Colombian Association of Trauma-American College of Surgeons.**
- 2007 Basic Car Rescue Course (16h). **Colombian Civil Defense.**
- 2006 International Trauma Life Support (ITLS). **Colombian Red Cross - American College of Emergency Physicians.**
- 2005 Collapsed Structures Light Rescue course (48h). **USAID-OFDA- Colombian Red Cross.**
- 2004 Management of the Acute Coronary Syndrome (8h) **Colombian Association of Emergency Medicine (Medellín)**
- 2004 Seminar-Workshop, Hospital Emergency Planning (8h) **CEMPAS / Health Sciences Institute – CES (Medellín)**
- 2004 Basic and Advanced Cardiac Life Support. **CEMPAS – Health Sciences Institute – CES.**
- 2004 Prehospital Trauma Life Support (48h). **District Health Secretariat (Bogotá).**
- 2004 7<sup>th</sup> Course of Prehospital Care. **Colombian Red Cross– Cundinamarca.**
- 2003 Trauma Care, cardiac and medical emergencies course (60h). **Fundación Salamandra (Bogotá).**
- 2003 Prehospital management of brain trauma. **Fundación Salamandra - Brain Trauma Foundation (Bogotá) -**
- 2002 Prehospital Trauma Life Support (PHTLS). **Fundación Salamandra – NAEMT (Bogotá).**
- 2002 VII National Prehospital care, rescue and disaster workshop (24h). **Fundación Salamandra**
- 2000 Volunteer Rescuer. **Colombian Red Cross.**
- 1997 Volunteer Rescuer. **Colombian National University Support and Rescue Group.**

## CONFERENCE PRESENTATIONS

- **Hospital Disaster Risk Management Seminar - 2020**  
Organizer and speaker of first seminar involving representative of 50 hospitals and of every stakeholder group

## PUBLICATIONS

- Lobelo F, Duperly J, Segura C, **Sarmiento F**, Herrera, D, Sarmiento O, and Frank, E. The Association between Colombian Medical Students healthy personal habits, and their attitude towards counseling. BMC Public Health 2009, 9:218.
- Gomez LC, **Sarmiento FJ**. "Public health situation rooms in crisis: experiences in three Colombian departments in 2014". IQEN Vol. 19 No. 13, 15 of July 2014. National Institute of Health (available in Spanish).

## BOOK CHAPTER

- "Health in Disasters" Module. Master's Textbook (ISSN-2248-7013), book I. Master in Risk Management and Development. Colombian Army, School of Military Engineers. November 2011. (available in spanish)
- **Sarmiento F**, Castelblanco S, Argote K. "Management of Mass Casualty incidents in Latin America." In: Vargas L, Escalante R, García D. Latin American Emergency Medicine Book. Soon to be published online (available in spanish)

## POSTERS

- Duperly J, Lobelo F, Sarmiento OL, **Sarmiento F**, Segura C. Medical Students. "Is it worth it to be a lifestyle role model?" XIX National Congress of Internal Medicine. Cartagena, Colombia, 2006 (available in Spanish)
- **Sarmiento F**, Castelblanco S, Cortes E, Beleño LE. The experience in the adoption of the "Hospital Incident Command System" in a Developing Country. Presented at the Disaster Planning for California Hospitals, Planning for today, tomorrow and beyond. Sacramento, CA, (2015).
- **Sarmiento F**, Castelblanco S. "A Proposed Methodology for an Integral Evaluation of Emergency Hospital Risk Management." Presented at the Disaster Planning for California Hospitals, Planning for today, tomorrow and beyond. Sacramento, CA, (2015).
- Castelblanco S; **Sarmiento F**; Camero, G. "Effective Hospital Response to a Disaster. What Made the Difference? The Mocoa, Colombia, South America case, March 31, 2017". Presented at the Disaster Planning for California Hospitals Conference. September 18 – 20, 2017. Sacramento, CA.
- Castelblanco S, Gutierrez M, **Sarmiento F**, Camero G. "Lessons Learned from the Mocoa (Colombia) Mudflow Disaster." Presented at the IAEM 65th Annual Conference. November 10-15, 2017.
- **Sarmiento F**, Rivas C, Al Ruwaithi A, Kendra J, Nigg J. Hawaii's Health Care Facilities' Response to the False Ballistic Missile Alert. Presented at the 2018 Natural Hazards Workshop, Boulder, CO

## ACADEMIC REFERENCES

### James Kendra

Director, Disaster Research Center

Professor, School of Public Policy and Administration

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