

# Patrick P. Meier, PhD

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## SUMMARY OF QUALIFICATIONS

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- 10+ years of professional experience in Humanitarian Technology, Crisis Mapping & Crisis Early Warning.
- Unique expertise in application of emerging technology & advanced computing for humanitarian projects.
- Consultant for UN, EC, OSCE, OECD, World Bank, Red Cross and key nongovernment organizations.
- Book Author: "Digital Humanitarians: How Big Data is Changing the Face of Humanitarian Action".
- Founder of Humanitarian UAV Network (UAViators), enabling safe, effective uses of UAVs in disasters.
- Co-founder and former Co-Director of Harvard University's Program on Crisis Mapping and Early Warning.
- Co-founder of the Digital Humanitarian Network, CrisisMappers and the Standby Task Force (SBTF).
- Former Director of Crisis Mapping at Ushahidi, rated by MIT as top 50 most innovative company in world.
- PhD from The Fletcher School of Law & Diplomacy with Pre-Doctoral Fellowship from Stanford University.
- Finalist of the Peter Ackerman Annual Doctoral Dissertation Award at Fletcher School of Law & Diplomacy.
- Professional blogger & author of most respected blog on humanitarian technology/innovation: iRevolutions.
- Excellent public speaker with numerous keynote addresses and conference presentations worldwide.
- Accomplished author with several dozen peer reviewed publications in journals & chapters in edited books.
- Fellow at Harvard Humanitarian Initiative, Rockefeller Foundation, PopTech and UNICEF Innovations.
- Judge for major international competitions including GSMA's Mobile Awards and UAE's Drone for Goods.
- Interviewed by leading media including New York Times, BBC, CNN, The Economist, Wired, Forbes, etc.

## INTERNATIONAL EDUCATION

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<b>The Fletcher School of Law and Diplomacy, Tufts University</b> Ph.D., International Affairs with focus on Digital Activism and Crisis Mapping	<b>Boston</b> 2012
<b>Stanford University, Center for Democracy, Development and Rule of Law (CDDRL)</b> Hewlett Pre-Doctoral Fellow, Program on Liberation Technologies	<b>Stanford</b> 2011
<b>Columbia University, School of International and Public Affairs (SIPA)</b> M.A., International Affairs with focus Conflict Prevention	<b>New York</b> 2004
<b>University of York, School of Politics, Economics and Philosophy</b> B.A. (Honors), Political Science, Economics and Philosophy	<b>York, UK</b> 2001
<b>University of California at Berkeley</b> E.A.P, Political Science, Economics and Philosophy	<b>Berkeley</b> 2000

## ADVANCED CERTIFICATES

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<b>Fletcher Summer Institute for Advanced Study of Nonviolent Conflict</b> <ul style="list-style-type: none"><li>• Intensive course on theory, strategy and tactics for civil resistance</li></ul>	<b>Boston</b> 2009
<b>Santa Fe Institute (SFI), Complex Systems Summer School (CSSS)</b> <ul style="list-style-type: none"><li>• Intensive quantitative course for PhDs on modeling complexity</li></ul>	<b>Santa Fe</b> 2006

## PROFESSIONAL EXPERIENCE

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### Facebook

Strategy Consultant

**DC & SF**

2016-present

- Focus of consultancy is on the use of new and future Facebook products relevant to disaster response and crisis management. Non-Disclosure Agreement (NDA) signed. More detailed description of consultancy will be added here once consultancy is completed.

### Planet Labs

Strategy Consultant

**DC & SF**

2016-present

- Developing a strategy to guide the company's support of humanitarian engagement efforts worldwide with respect to the use of their growing constellation of satellites. Analyzed current ecosystem of actors, platforms and technologies engaged in the analysis of satellite imagery in the humanitarian space. Establishing Planet Lab's Humanitarian Impact Program. Collaborating closely with Planet's Executive Leadership and Engineering Team to support humanitarian efforts worldwide. Non-Disclosure Agreement (NDA) signed.

### World Bank

Lead Consultant on UAVs for Resilience Program

**DC & Pacific**

2015-present

- Identifying the most appropriate UAV hardware and software solutions along with UAV operators, standard operating procedures and workflows as well as information products and regulatory structures to enable the rapid use of UAVs for disaster preparedness, response and climate change adaptation. Developing World Bank's strategy for UAV testing and trials to assess most appropriate solutions. Formulating solutions to address the Big Data challenge around aerial imagery.

### Australian Red Cross

Consultant on Humanitarian UAV Project

**DC & Pacific**

2015-present

- Leading and implementing the Australian Red Cross's UAVs in Disaster Management Project in Asia Pacific. The purpose of this project is to understand applications of UAVs in disaster management operations and regional considerations for the Pacific region. The program will also inform a policy and practice position for the use of UAVs in the Pacific region for the Red Cross Red Crescent Movement.

### WeRobotics

Co-Founder and Executive Director

**DC & Global**

2015-present

- Accelerating the transfer of appropriate robotics technologies and skills to outstanding local partners in developing countries to scale the impact of their humanitarian aid, global development, environmental protection and public health projects. Co-creating a global network of "Flying Labs" with key local partners. Establishing strategic partnerships with the world's leading robotics companies and research institutes. Nepal Flying Labs and Tanzania Flying Labs and Peru Flying Labs are already in progress with Flying Labs in Philippines and Maldives being explored.

### FSD Swiss Foundation for Mine Action

Consultant on Humanitarian UAV Program

**DC & Geneva**

2015-2016

- Co-authored most comprehensive report on Drones in Humanitarian Action. Carried out applied research on humanitarian UAV missions and lessons learned. Identified compelling opportunities to spearhead pilot projects to demonstrate proof of concept. Updated regulatory information on UAV use in most disaster prone countries.

**Humanitarian UAV Network (UAViators)**

Founder and Coordinator

**Global**  
2014-present

- Spearheading unique community of humanitarian practitioners, policymakers and UAV experts. The purpose of UAViators is to facilitate and promote the safe, responsible and effective use of UAVs in support of a wide range of humanitarian and development efforts. Leading development of Code of Conduct and carrying out applied research on UAV uses in humanitarian projects. Spearheaded disaster recovery UAV mission in Nepal in partnership with DJI and Pix4D and in collaboration with Kathmandu University. Authored report on “Humanitarian UAVs: Towards Best Practices” and book chapter on Humanitarian UAVs in New America Foundation Primer on UAVs. Invited by UN to coordinate UAV teams in response to Nepal Earthquakes in 2015. Launched crowdsourced Crisis Map of aerial images and videos of disaster areas. Co-organized first ever Experts Meeting on Humanitarian UAVs at the UN Secretariat in 2014 and the 2015 UAViators Experts Meeting at MIT. Also co-organized first ever formal UAV training for humanitarian professionals and first ever International Policy Forum on Humanitarian UAVs, which was supported and hosted by the Rockefeller Foundation. Co-organized second Experts Meeting on Humanitarian UAVs in collaboration with OCHA, MIT and World Humanitarian Summit (WSH). Also co-organized hands-on UAV training in partnership with Unmanned Experts. The UAV Network, which was endorsed by UN OCHA, is the only one of its kind. Advisory Board members include European Commission, World Bank and leading UAV companies such as DJI Global, 3DRobotics and senseFly as well as important humanitarian organizations like the OCHA and American Red Cross. More at: UAViators.org.

**Qatar Foundation – Qatar Computing Research Institute (QCRI)**

Director of Social Innovation

**Doha & DC**  
2012-2015

- Spearheading QCRI’s Computing for Social Good Program. Collaborating directly with Senior Computer Scientists, Data Scientists, Software Engineers and Post Docs to apply the Institute’s expertise in advanced computing to address major computational challenges in the humanitarian and global development space. Leveraging Big Data Analytics, Social Computing, Machine Learning and Human Computing to develop the Next-Generation of Humanitarian and Crisis Computing Technologies. Developing time-critical microtasking platforms (MicroMappers) in partnership with UN to make sense of user-generated, multimedia content posted on social media during disasters. Extending MicroMappers to microtask analysis of satellite and UAV/aerial imagery to support relief operations and exploring semi-automated solutions powered by advances in computer vision. Also developing time-critical machine learning platform (Artificial Intelligence for Disaster Response, AIDR) in partnership with UN to augment situational awareness during disasters by automatically classifying crisis tweets & SMS. Directly spearheading the deployment of these platforms in response to major humanitarian crises. Developing advanced computing platforms (Verily and TweetCred) for the rapid verification of information during disasters and crises. Spearheading innovative partnerships—The Planetary Response Network—with Planet Labs to radically accelerate satellite imagery analysis post-disaster including Typhoons Haiyan and Ruby as well as Cylone Pam. Applying the above humanitarian technology platforms to other multiple social sectors including city resilience with the Rockefeller Foundation. Coordinating all strategic partnerships with international humanitarian and development organizations including the United Nations, World Bank, Red Cross, etc. Representing QCRI at high profile conferences worldwide and garnered extensive mainstream media coverage.

**European Space Agency Crowd4Sat Project**  
Strategy Consultant**DC & London**  
2015-2016

- Identified opportunities to apply crowdsourced satellite imagery analysis to support key humanitarian projects around the world. Liaised with leading satellite companies including Planet Labs and SkyBox, and key humanitarian organizations and citizen science platforms. Exploring deep machine learning solutions to semi-automate feature detection algorithms.

**Digital Humanitarian Network (DHN)**  
Co-Founder and Coordinator**Global**  
2012-present

- Co-founded and coordinating the international Digital Humanitarian Network with the UN Office for the Coordination of Humanitarian Affairs (OCHA). The purpose of the DHN is to provide humanitarian organizations with the surge capacity they need to make sense of Big (Crisis) Data during disasters. The DHN is composed of 25 organizations including Google Crisis Response, ESRI Disaster Response, Humanitarian OpenStreetMap and DataKind.

**Standby Volunteer Task Force for Live Mapping (SBTF)**  
Co-Founder and Member of the Board**Global**  
2010-present

- Launched international volunteer network to support live crisis mapping operations using social media and satellite imagery. Spearheaded & supported numerous Task Force deployments with multiple humanitarian organizations worldwide. Represented Task Force at key UN meetings and workshops in New York, Geneva and Vienna. Grew the membership of the Task Force to more than 1,000 volunteers in over 80 countries.

**Crisis Mappers: The Humanitarian Technology Network**  
Co-Founder and Co-Director**Global**  
2009-present

- Launched the world's premier international network on crisis mapping and humanitarian technology research, policy and practice. Grew the network to over 8,000 members based in over 170 countries. Co-organized and curated the first, second, third, fourth and fifth International Conferences on Crisis Mapping (ICCM) held in the United States, Europe and Africa. ICCM is the highest-profile conference exploring innovation in humanitarian technology for humanitarian response. Secured more than \$300K funding from major sponsors including ESRI and Google to support the international events.

**World Bank**  
Strategy Consultant**Global**  
2014-2015

- Spearheaded the World Bank's UAV response to Cyclone Pam in close collaboration with the Government of Vanuatu. Recruited, contracted and directly coordinated professional UAV teams. Served as liaison to the World Bank and provided logistics support to UAV teams. Operated UAV as part of humanitarian mission and spearheaded the crowdsourced analysis of the resulting very high-resolution aerial imagery. Took lead in full after-action review of humanitarian UAV deployment and in developing improved methodologies for the analysis of aerial imagery. Developed the World Bank's new "UAVs for Resilience" program for the Pacific Region to build capacity for rapid deployments. Advised the World Bank in Tanzania on using UAVs for disaster risk reduction (DRR).

**United Nations Development Program (UNDP)**  
Consultant**Global**  
2014-2014

- Carried out targeted review of new technologies that can be used to deliver aid in conflict zones. Interviewed humanitarian professionals operating in conflict zones and leading technology experts across several technology sectors. Authored chapter in UNDP report to document findings based on four case studies. Also provided actionable recommendations.

**Humanitarian Outcomes**

Consultant

**Global**  
2013-2014

- Carried out comprehensive review of new technologies to better assess the humanitarian footprint during complex emergencies and resulting humanitarian needs in non-permissive settings. Interviewed leading technology experts across the globe and authored final report for Humanitarian Outcomes with key and actionable recommendations.

**PeaceTXT**

Consultant &amp; Founding Member

**Global**  
2010-2013

- Collaborated with PopTech, CeaseFire, Medic:Mobile, Praekelt Foundation and others on groundbreaking mobile messaging initiative for the early detection, mitigation and prevention of violence. Spearheaded PeaceTXT's first international pilot project with Sisi ni Amani in Kenya to interrupt election-related violence during the 2013 presidential elections.

**Ushahidi – Crowdsourcing Crisis Information**

Director of Crisis Mapping and Strategic Partnerships

**Global**  
2009-2012

- Pioneered the field of crisis mapping and humanitarian technology. Catalyzed key partnerships with international humanitarian and development organizations, human rights groups, media companies and the technology sector. Provided strategic support to crisis mapping projects in dozens of countries worldwide and spearheaded major international crisis mapping efforts in Haiti, Chile, Libya and Somalia. Liaised and directly collaborated with multiple UN organizations including Secretary General's Office, OCHA, UNDP, WFP and UNHCR. Coordinated major partnership with Al-Jazeera and collaborated with Internews and George Washington University on CrowdGlobe initiative, a data-driven analysis of crowdsourced data. Presented at numerous international and world-class conferences and providing frequent interviews to the international media. Served on Ushahidi's original Advisory Board in 2008-2009.

**UN Office for the Coordination of Humanitarian Affairs (OCHA)**

Strategy Consultant

**Global**  
2011-2012

- Providing strategic guidance to UN OCHA on developing and launching the Digital Humanitarian Network, an official interface between professional humanitarian organizations and informal technical & volunteer communities. Designing and formulated strategies for this interface based on the lessons learned from the Standby Volunteer Task Force (SBTF). Developed draft protocols, standard operating procedures and modular information management workflows. Strategizing branding options.

**Global Facility for Disaster Risk Reduction and Recovery (GFDRR)**

Strategy Consultant

**Global**  
2011-2012

- Providing strategic guidance to the World Bank's Open Data for Resilience Initiative (OpenDRI). Collaborating with GFDRR Labs team to produce strategy document outlining rationale and approach of OpenDRI, building on "Natural Hazards, Unnatural Disasters" report. Addressing role of data in decision-making for resilience-building activities and why open data matters in disaster and climate change context. Carrying out case study research on OpenDRI deployments to illustrate real-world applications of the initiative.

**Internews**

Strategy Consultant

**Global**  
2011-2012

- Spearheaded novel CrowdGlobe project to improve empirical analysis of crowdsourced event-data. Collaborated with faculty from George Washington University to carry out comprehensive analysis of global Crowdmap data, using both quantitative and qualitative methods. Identified insightful patterns and produced detailed report of findings.

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| <p><b>World Bank</b><br/>Research Coordinator</p> <ul style="list-style-type: none"> <li>Coordinating research project on implications of new technologies for human rights space. Developing appropriate framework, methodology and identifying key case studies. Managing two research assistants to co-author final report. Expecting to provide consulting services to new project on open data, technology and disaster resilience.</li> </ul>  | <p><b>Global</b><br/>2011-2012</p>     |
| <p><b>UN Office of the Special Advisor on the Prevention of Genocide</b><br/>Early Warning Consultant</p> <ul style="list-style-type: none"> <li>Carried out comprehensive conflict risk assessment for Kyrgyzstan. Developed proposal to apply crisis mapping technologies for conflict early warning and people-centered conflict prevention. Carried out official fact-finding mission in Bishkek to formulate implementation strategy. Launched customized crisis map and provided hands-on training.</li> </ul>   | <p><b>Kyrgyzstan</b><br/>2010-2011</p> |
| <p><b>UN Secretary General's Office (UN Secretariat)</b><br/>Crisis Mapping Consultant</p> <ul style="list-style-type: none"> <li>Contributed to the conceptual design and development UN Global Pulse, an international initiative by the UN Secretary General to monitor and respond to vulnerable communities in real-time. Produced deliverable on lessons learned and best practices in crisis early warning systems. Participated in first high-level workshop with experts to formulate basis for Global Pulse.</li> </ul>  | <p><b>Europe</b><br/>3-6/2010</p>      |
| <p><b>UNDP Crisis and Risk Mapping Assessment (CRMA)</b><br/>Crisis Mapping Consultant</p> <ul style="list-style-type: none"> <li>Carried out comprehensive evaluation of CRMA methodology. Provided detailed feedback on lessons learned and best practices of crisis mapping. Evaluated role of the United Nation's Information Management Working Group. Assessed viability of crisis-mapping data for conflict early warning and geospatial analysis. Carried out field-evaluations of crisis mapping focus groups in Eastern Sudan.</li> </ul>  | <p><b>Sudan</b><br/>3-8/2009</p>       |
| <p><b>Harvard Humanitarian Initiative (HHI), Harvard University</b><br/>Co-Founder and Co-Director of Program on Crisis Mapping and Early Warning</p> <ul style="list-style-type: none"> <li>Co-directed cutting-edge research project on crisis mapping and conflict early warning. Directly contributed to proposal that secured the \$250K to run the new research program. Played pivotal role in pioneering the field of crisis mapping and humanitarian technology. Developed applied research agenda to formalize the field and catalyze innovative research. Carried out 300+ consultations with humanitarian, human rights and technology groups. Formally partnered with Ushahidi and Humanitarian Sensor Web to incubate both projects. Identified best practices in technology use for humanitarian and human rights initiatives. Co-founded and co-organized the first International Conference on Crisis Mapping. Co-founded and co-launched the International Network of Crisis Mappers.</li> </ul> | <p><b>Global</b><br/>2007-2009</p>     |
| <p><b>United Nations Foundation (UNF)</b><br/>Co-author</p> <ul style="list-style-type: none"> <li>Published major report on New Technologies in Emergency Response and Disaster Relief. Carried out extensive research on information, social networks and new media in crises. Identified innovative cases to highlight challenges and opportunities in humanitarian tech.</li> </ul>  | <p><b>Europe</b><br/>05-10/2009</p>    |

- Development Alternatives Inc. (DAI)** **Boston**  
New Media Advisor 5-9/2009
- Acted as independent advisor to USAID democracy and contingency planning program. Advised on integration of technology into program activities in repressive environments. Provided guidance technology applications for transitions to democratic governance.
- Organization for Economic Co-operation and Development (OECD)** **Europe**  
Early Warning Consultant 8-10/2008
- Critically reviewed major report on Future of Operational Conflict Early Warning Systems. Added content on people-centered approaches and untapped potential of new technologies. Carried out gap analysis, made corrections and incorporated missing information.
- European Commission (EC) State Fragility Project** **Europe**  
Early Warning Consultant 5-10/2008
- Co-authored major report on monitoring mechanisms for state fragility. Mapped donors, actors, financial instruments and assessment tools in situations of fragility. Identified gaps in mapping by drawing on six pilot countries: Burundi, Sierra Leone, Guinea Bissau, Haiti, Timor-Leste and Afghanistan. Developed on the needs and possibilities to diagnose and assess fragile situations through joint analysis, mechanisms to liaise and coordinate, and inter-linkage of tools.
- International Federation for Elections Systems (IFES)** **East Timor**  
Early Warning Consultant 1-3/2008
- Collaborated with local NGO to design people-centered conflict early warning system. Provided training on best practices and lessons learned in the field of conflict early warning. Supported development of strategy for implementing the system at the national level. Facilitated outreach efforts with regional and international organizations.
- Peace Research Institute, Oslo (PRIO)** **Norway**  
Research Assistant 2006-2007
- Collaborated with former Secretary of State and Deputy Foreign Minister Helga Hernes. Carried out research on direct and indirect causes of death in armed conflict by gender. Crisis mapped Armed Conflict Location and Event Data (ACLED) using Google Earth. Updated Lacina-Gleditsch battle-deaths dataset for Center for Study of Civil War. Published book review and refereed an article for the Journal of Peace Research.
- Economic Community of Central African States (ECCAS)** **Norway**  
Early Warning Consultant 6-7/2006
- Developed full conceptual and operational framework for Central African early warning system to collect, analyzes data for early detection and prevention of crises.
- United States Agency for International Development (USAID)** **Boston**  
Early Warning Consultant 2-3/2006
- Co-developed full conceptual, operational framework for second phase of Colombia's early warning system for the prevention of massive and systematic violations of human rights.
- Consortium for International Conflict Prevention (CICP)** **Global**  
Independent Consultant 2004-2006
- Established Early Warning Working Group with International Crisis Group (ICG), International Alert (IA) and Swisspeace.

**Intergovernmental Authority on Development (IGAD)**

Early Warning Consultant

**East Africa**

2004-2005

- Scaled up the Horn of Africa's CEWARN regional conflict early warning system. Provided technical training, analytical support. Set up GIS and crisis mapping project. Enhanced quantitative conflict indicators and integrated environmental indicators. Initiated partnership with IGAD Climate Prediction and Impact Assessment Center. Liaised with government officials to assess capacity for national early response units. Secured important USAID contract renewal to scale up network.

**Center for International Conflict Resolution (CICR), Columbia University**

Research Fellow

**New York**

2003-2005

- Acted as research assistant to David Hamburg and UN Committee on Genocide Prevention. Actively participated in Global Partnership for Prevention of Armed Conflict meetings. Carried out research on UN's capacity for conflict early warning and rapid response. Contributed to Secretary-General's report on Prevention of Armed Conflict.

**Economic Community of West African States (ECOWAS)**

Early Warning Consultant

**Gambia**

2004-2005

- Initiated the development of West Africa's regional conflict early warning network. Drew on lessons learned and best practices developed by the Horn of Africa's CEWARN. Briefed ECOWAS Secretariat, military personnel and NGOs on conflict early warning. Developed methodology for West Africa Network for Peacebuilding (WANEP). Secured USAID contract to develop regional warning system in West Africa.

**United Nations Headquarters (UNHQ)**

Conflict Prevention Consultant

**New York**

2004-2005

- Briefed Office of Special Advisor for Prevention of Genocide on conflict early warning. Designed early warning framework for Millennium Secretariat to monitor MDGs. Provided recommendations on early warning and sustainable development. Developed field-based early warning proposal for UN OCHA.

**Organization for Cooperation and Security in Europe (OSCE)**

Early Warning Consultant

**Austria**

2004-2005

- Briefed Office for Economic Activities and UN Economic Commission for Europe (UNECE). Proposed framework to develop joint OSCE-UNECE conflict early warning system. Evaluated early warning systems for Conflict Prevention Situation Room.

**The Swiss Peace Foundation at the United Nations**

United Nations Representative

**New York**

2003-2004

- Established UN Liaison Office and secured CEO approval to apply for UN affiliation. Presented lessons learned in conflict prevention and early warning to UN Secretariat. Designed strategic plan to promote FAST Conflict Early Warning International. Coordinated public and donor relations with major international donors.

**Organization for Cooperation and Security in Europe (OSCE)**

Early Warning Consultant

**Austria**

2003-2004

- Briefed Office for Environmental Activities, UNDP and UNEP on early warning systems. Evaluated potential of early warning systems to monitor environmental security. Provided Environmental Security Initiative with strategic guidance on early systems. Presented recommendations at international conference on environmental security.

**Center for Globalization and Sustainable Development, Earth Institute**

Research Assistant

**New York**

4-6/2004

- Carried out research on conflict prevention report for Millennium Development Goals. Co-organized workshop on conflict & development with Professor Macartan Humphreys. Developed conference theme on conflict early warning for sustainable development.

**Center for Earth Science Information Network (CIESIN), Earth Institute**

Research Assistant

**New York**

9-12/2003

- Carried out research on multiple conflict early warning systems and methodologies. Evaluated early warning systems for USAID Office of Conflict Management and Mitigation Recommended Watch List of Watch Lists model to network conflict early warning systems.

**The Swiss Peace Foundation**

Research Associate

**Switzerland**

06-08/2003

- Collaborated with UNICEF-Somalia to develop project proposal to implement a conflict early warning system for field security in Somalia. Took lead in establishing Business and Peace project and established joint research agenda with Economists for Peace and Security. Analyzed potentials and challenges of business engagement in conflict prevention and assessed impact of economic activities on violent conflict.

**United Nations International Children Emergency Fund (UNICEF)**

Research Associate with Somalia Support Office

**Kenya**

05-06/2003

- Carried out study on Somali conflict from perspective of environmental degradation. Drafted proposal to mainstream environment and conflict early warning systems. Designed conflict prevention training strategy for Somali youth.

**United Nations International Children Emergency Fund (UNICEF)**

Independent Consultant

**Western Sahara**

06-08/2002

- Carried out field research to assess influence of protracted conflict on women and children. Conducted interviews with local groups, UN peacekeepers and returned Polisario fighters. Authored and presented 30-page report on findings and recommendations.

**Global Policy Forum at the United Nations (GPF)**

Senior Research Associate on Security Council

**New York**

2001-2002

- Participated in weekly preventive diplomacy forum with Ambassadors on Security Council and senior representatives of major international non-governmental organizations. Actively monitored international security policy-making in UN Security Council. Performed daily conflict research and analysis on Iraq, Afghanistan, Sudan, Congo-DRC and other hotspots.

**Foreign Affairs Division, Congressional Research Service (CRS)**

Research Analyst

**Washington DC**

05-09/2000

- Authored weekly Congressional Briefs for Members of Senate and House Committees. Carried out research on international conflicts, security, trade and human rights. Attended Senate and House hearings and networked with congressional staff.

**Informatique, Télématique, Bureautique (IBT)**

Computer Software Programmer

**Belgium**

06-08/1996

- Designed and programmed professional statistics-based software package using Visual Basic and Microsoft Access. Authored technical manual and developed bilingual user manual. Networked with clients and attended company board meetings.

## ACADEMIC HONORS

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<b>Stanford University – Program on Liberation Technologies</b>	<b>Stanford</b>
• Pre-Doctoral Visiting Fellowship	2010-2011
<b>Tufts University – Fletcher School of Law and Diplomacy</b>	<b>Boston</b>
• Recipient of competitive Provost PhD scholarship	2005-2011
• PhD student representative on Admissions Committee	
• Robert E. Stuart Prize for outstanding graduate student	
• Finalist of Peter Ackerman Doctoral Dissertation Award	
• Recipient of conference grants totaling more than \$20K	
<b>Columbia University – School of International and Public Affairs</b>	<b>New York</b>
• Scholarship and Program Assistantship for International Economics	2003-2004
<b>University California at Berkeley</b>	<b>Berkeley</b>
• Full competitive scholarship	1999-2000

## TEACHING EXPERIENCE

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<b>Tufts University: “Digital Democracy”</b> Co-lecturer with Google colleague	<b>Boston</b> Spring 2009
• Designed and co-taught new 14-week undergraduate seminar. Developed full syllabus, teaching notes and all powerpoint presentations. Core topics taught included new media, citizen journalism, digital activism, humanitarian technology, censorship and circumvention, cybersecurity and technology for development. Made extensive use of multimedia including wikis, blogs, videos and Twitter. Graded all in class presentations and final research projects.	
<b>The Fletcher School: “Managing Complex Systems”</b> Co-lecturer with Professor Moomaw	<b>Boston</b> Fall 2007
• Proposed, designed, co-taught 7-week, 14-lectures graduate seminar on complex systems. Developed 10-page syllabus and identified reading materials with list of further readings. Core topics taught included principles of complexity science, stocks and flows, agent-based modeling and social network analysis. Designed problem sets to introduce and demonstrate how to develop and simulate complex systems using systems thinking software and agent-based modeling program. Took lead in developing all lecture slides and used other multimedia extensively. Co-taught all core lectures and taught six full lectures. Graded all problem sets, final research papers.	
<b>Tufts Nutrition School: “Disaster and Conflict Early Warning/Response”</b> Co-lecturer with Professor Patrick Webb	<b>Boston</b> Fall 2007
• Designed and co-taught 6-week professional distance learning course for UN professionals. Introduced methods of risk analysis, highlighted distinction between hazards & disasters. Used case studies of early warning systems for earthquakes, famine, pandemics & conflict. Presented on the challenges and opportunities of new technologies for early warning. Assessed causes of warning-response gap and potential policy measures to close gap. Used multimedia extensively including animations, simulations and documentaries. Developed slides and teaching notes for all lectures.	

**Tufts University: “From Disaster to Conflict Early Warning”**

Lecturer

**Boston**  
Fall 2006

- Designed and taught new 14-week undergraduate seminar. Developed syllabus and made extensive use of multimedia to enhance understanding. Core topics included disaster and conflict theory, disaster and conflict analysis, crisis mapping in theory and practice, evaluation of operational disaster and conflict early warning systems and methodologies, people-centered approaches to early warning, tactical early warning, response, strategic nonviolent action, linking warning to response. Graded presentations, final research papers.

**Tufts University Osher Institute: “Disaster and Conflict Early Warning”**

Lecturer

**Boston**  
Fall 2006

- Designed and taught 8-week distance learning seminar to UN professionals on 4 continents. Developed 10-page syllabus to cater to working practitioners in the field. Core topics included disaster and conflict theory, disaster and conflict analysis, crisis mapping in theory and practice, evaluation of operational disaster and conflict early warning systems and methodologies, people-centered approaches to early warning, tactical early warning and response, strategic nonviolent action and linking warning to response. Made extensive use of multimedia to complement readings and discussion board.

**Tufts University Osher Institute: “Disaster and Conflict Early Warning”**

Lecturer

**Boston**  
Spring 2006

- Designed and taught 8-week seminar to high-powered retired professionals on disaster and conflict early warning systems. Developed 8-page syllabus to cater to the more professional audience and taught all lectures using slides. Core topics included disaster and conflict theory, disaster and conflict analysis, crisis mapping in theory and practice, evaluation of operational disaster and conflict early warning systems and methodologies, people-centered approaches to early warning, tactical early warning and response, strategic nonviolent action and linking warning to response. Made extensive use of multimedia encouraged discussion on current disasters and conflicts.

**PROFESSIONAL BLOGGER**

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**iRevolutions**2008-*present*

- Received close to 2 million hits. Published close to 1,000 blog posts on topics ranging from humanitarian innovation, crowdsourcing, UAVs, crisis mapping and crisis computing to digital activism, civil resistance and humanitarian technology. Considered one of the premiere blogs on these topics. Cited across the blogosphere and by the mainstream media. Top result: 60,000+ hits per month. See: <http://iRevolutions.org>.

**EarlyWarning**

2008-2010

- Published close to 100 blog posts on topic of conflict early warning and rapid response. The EarlyWarning blog is still the only blog in the world dedicated to this topic. The blog was folded into the iRevolution blog in 2011.

## **PROFESSIONAL & ACADEMIC PUBLICATIONS**

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- Book published by Taylor&Francis Press: *Digital Humanitarians: How Big Data is Changing the Face of Humanitarian Response*. Endorsed by Harvard, MIT, Stanford, Georgetown, Oxford, UN, ICRC, IFRC, USAID, DfID, World Bank, LinkedIn, Twitter and more.
- Over 80 papers and publications: <http://iRevolutions.org/publications>

## **INTERNATIONAL KEYNOTES & TALKS**

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- Over 200 speaking engagements in 20 countries: <http://iRevolutions.org/talks>
- Dozens of Keynotes including: <http://iRevolutions.org/videos>

## **LANGUAGES**

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- Native English and Fluent French: born and raised in English- and French speaking Africa
- Studied Modern Standard Arabic for 3 years including accelerated courses in Morocco
- Intermediate fluency in Germany

## **REFERENCES**

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- Available upon request.