



## Milana Trounce

Clinical Professor, Emergency Medicine

 NIH Biosketch available Online

### CLINICAL OFFICE (PRIMARY)

- **Stanford Dept of Emergency Medicine**

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### Bio

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#### BIO

Dr. Boukhman Trounce graduated from the University of California San Francisco (UCSF) School of Medicine and went on to complete her emergency medicine residency and fellowship in Disaster Medicine and Bioterrorism Response at Harvard Medical School. She worked with the Center for Integration of Medicine and Technology (CIMT), a consortium of Harvard teaching hospitals and MIT, where she led BioSecurity related projects in conjunction with the US State Department. She also received her MBA from Stanford Business School.

After Harvard she joined UCSF as an Assistant Professor of Emergency Medicine and was Medical Director for Disaster Response. For the past 11 years, she has been at Stanford Medical School, where she is a Clinical Professor of Emergency Medicine.

She directs the BioSecurity program at Stanford, focused on protecting society from pandemics and other threats posed by infectious organisms, with a specific emphasis on approaches to interrupting transmission of infectious organisms in various settings. The background for the approach is outlined in her briefings at the Hoover Institute (see in publications list below). Stanford BioSecurity facilitates the creation of interdisciplinary solutions by bringing together experts in biology, medicine, public health, disaster management, policy, engineering, technology, and business. <https://med.stanford.edu/biosecurity/about.html>

At Stanford, over the past ten years she has established and directed a class on BioSecurity and Pandemic Resilience , which examines ways of building global societal resilience to pandemics and other biothreats and has educated over a thousand students. She has also taught an online Harvard course on medical response to biological terrorism, educating thousands of physicians globally.

She has served as a spokeswoman for the American College of Emergency Physicians (ACEP) and is a founding Chair of BioSecurity at ACEP. In addition to her academic research and speaking at national conferences, she also consults nationally and internationally to healthcare systems, governments, and other organizations.

#### CLINICAL FOCUS

- Emergency Medicine

- Pandemic resilience, BioSecurity

## **ACADEMIC APPOINTMENTS**

- Clinical Professor, Emergency Medicine

## **ADMINISTRATIVE APPOINTMENTS**

- Awards Committee member, Society of Academic Emergency Physicians, (2019-2020)
- Alternate Member, Clinical Professor Appointment and Promotions Committee, Clinical Associate Professor and Clinical Stanford Medical School, (2021- present)
- Faculty Mentor, Stanford Global Catastrophic Risk Initiative, (2020-2020)
- Faculty Lead, Stanford COVID-19 Response Innovation Lab, (2020-2020)
- Founder, Director, Stanford BioSecurity, Pandemic Resilience, and Infectious Disease Disaster Response, (2014- present)
- Founding Chair, BioSecurity, American College of Emergency Physicians, (2019-2022)
- Expert Advisor on BioSecurity, Department of Defense, (2019- present)
- Member, Clinical Assistant Professor Appointment and Promotions Committee, Stanford Medical School, (2018-2021)
- Director, Stanford BioSecurity, Pandemic resilience, and Bioterrorism Response course, (2010- present)
- Course Director "Responding to Nuclear, Biological, and Chemical Weapons", Harvard Medical School CME, (2005-2018)
- Assistant Clinical Professor of Medicine, University of California San Francisco School of Medicine, (2005-2012)
- Instructor of Medicine, Harvard Medical School, (2004-2005)
- Diplomat of the American Board of the Emergency Medicine, American Board of Emergency Medicine, (2005- present)
- Medical Director of Disaster Response, UCSF, (2005-2006)
- Consultant: BioIndustry Initiative, US State Department, (2004-2005)
- Founder of the re-direction /technology transfer program for the Russian scientists, Harvard/MIT Center for Integration of Medicine and Technology, (2004-2005)
- Professional Practice Evaluation Committee, Stanford Emergency Medicine, (2012- present)
- Infectious Disease/Emergency Medicine Liaison, Stanford Medical School, (2014- present)
- Disaster Response section Member, American College of Emergency Physicians, (2012-2022)
- Academic Advisor for BioSecurity Concentration, Public Policy Masters Program Stanford, (2012- present)
- Senator Alternate, Stanford Medical School Faculty Senate, (2016-2018)

## **HONORS AND AWARDS**

- Faculty Teaching Award in Emergency Medicine, Stanford Medical School (2009)
- Anne E. Dyson Award for Advocacy, American Academy of Pediatrics (AAP) (2011)
- Faculty Mentorship and Teaching Award, Stanford (2014)
- Terman Mentorship Award, Stanford School of Engineering (2014)
- Fellow, American College of Emergency Physicians (2015)
- Excellence in Teaching Award, Stanford Emergency Medicine (2019)
- Chair, "Sustainability and Global Health" short communication session, Association of Medical Educators of Europe (AMEE) (2022)

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Spokesperson, American College of Emergency Medicine (2010 - 2015)
- Disaster Medicine Section, American College of Emergency Medicine (2012 - present)
- Fellow, Center for Innovation in Global Health (2015 - present)
- Reviewer for the Journal, Biosecurity and Bioterrorism: Biodefense Strategy, Practice, and Science (2015 - present)

- Founding Chair, BioSecurity, American College of Emergency Physicians (2019 - 2022)
- Transmissible Infectious Diseases and Epidemics, Society of Academic Emergency Physicians (2019 - present)
- Invited expert, National Academies of Sciences Board on Army Research and Development on BioDefense (BOARD) (2020 - 2021)
- Expert in Risk and Resilience in Global Health, World Economic Forum (2020 - present)
- Fellow, Crisis Science Collaborative (2020 - present)
- Invited Expert, Summit on Ending Biological Threats. Council on Strategic Risks. Washington, DC (2022 - 2022)
- Leadership Committee Member, Academy of Women in Emergency Medicine (AWAEM), Society of Academic Emergency Physicians (2022 - present)
- Reviewer for the Journal, JAMA Network Open (2023 - present)

## PROGRAM AFFILIATIONS

- Public Policy

## LINKS

- <https://med.stanford.edu/biosecurity/about.html>: <https://med.stanford.edu/biosecurity/about.html>
- <https://www.hoover.org/research/potential-pandemics>: <https://www.hoover.org/research/potential-pandemics>
- <https://explorecourses.stanford.edu/search?view=catalog&filter-coursestatus-Active=on&page=0&catalog=&academicYear=&q=biosecurity&collapse=:> [https://explorecourses.stanford.edu/search?view=catalog&filter-coursestatus-Active=on&page=0&catalog=&academicYear=&q=biosecurity&collapse=](https://explorecourses.stanford.edu/search?view=catalog&filter-coursestatus-Active=on&page=0&catalog=&academicYear=&q=biosecurity&collapse=:)
- <https://synbiobeta.com/are-we-doing-enough-about-biosecurity/>: <https://synbiobeta.com/are-we-doing-enough-about-biosecurity/>
- <https://news.stanford.edu/2020/04/30/stanford-students-launch-incubator-support-projects-fighting-covid-19/>: <https://news.stanford.edu/2020/04/30/stanford-students-launch-incubator-support-projects-fighting-covid-19/>
- <https://bewell.stanford.edu/home-caregivers-in-the-time-of-coronavirus/>: <https://bewell.stanford.edu/home-caregivers-in-the-time-of-coronavirus/>
- <https://www.youtube.com/watch?v=Zk-vIAAhzFw>: <https://www.youtube.com/watch?v=Zk-vIAAhzFw>
- COVID-19 and Future Pandemics Hoover publication: <https://www.hoover.org/research/covid-19-and-future-pandemics>

## Teaching

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### COURSES

#### 2023-24

- BioSecurity and Pandemic Resilience: BIOE 122, EMED 122, EMED 222, PUBLPOL 122, PUBLPOL 222 (Win)
- Health Care Leadership: EMED 127, EMED 227, PUBLPOL 127, PUBLPOL 227 (Win)

#### 2022-23

- BioSecurity and Pandemic Resilience: BIOE 122, EMED 122, EMED 222, PUBLPOL 122, PUBLPOL 222 (Win)
- Health Care Leadership: EMED 127, EMED 227, PUBLPOL 127, PUBLPOL 227 (Win)

#### 2021-22

- BioSecurity and Pandemic Resilience: BIOE 122, EMED 122, EMED 222, PUBLPOL 122, PUBLPOL 222 (Win)
- Health Care Leadership: EMED 127, EMED 227, PUBLPOL 127, PUBLPOL 227 (Win)

#### 2020-21

- BioSecurity and Pandemic Resilience: BIOE 122, EMED 122, EMED 222, PUBLPOL 122, PUBLPOL 222 (Win)

## Publications

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### PUBLICATIONS

- **Teaching Principles of Medical Innovation and Entrepreneurship Through Hackathons: Case Study and Qualitative Analysis.** *JMIR medical education*  
Preiksaitis, C., Dayton, J. R., Kabeer, R., Bunney, G., Boukhman, M.

2023; 9: e43916

- **Drive-through Medicine for COVID-19 and Future Pandemics** *WESTERN JOURNAL OF EMERGENCY MEDICINE*  
Ngo, J., Ravi, S., Kim, N., Boukhman, M.  
2021; 22 (2): 252–56
- **Is EMS Prepared for an epidemic or a pandemic? (expert comment)**  
Trounce, M. B.  
EMS1.com.  
2020 ; EMS1
- **COVID-19 and Future Pandemics**  
Trounce, M. B., Shultz, G. P.  
Hoover Press.  
2020 ; Governance in an Emerging New World
- **Potential Pandemics**  
Trounce, M. B.  
Hoover Press.  
2019 ; Governance in an Emerging New World
- **HITTING A MOVING TARGET: A STRATEGIC TOOL FOR ANALYZING TERRORIST THREATS** *HEALTH SECURITY*  
Coleman, K., Ishisoko, N., Trounce, M., Bernard, K.  
2016; 14 (6): 409–18
- **Educating Health Care Professionals on Human Trafficking** *PEDIATRIC EMERGENCY CARE*  
Grace, A. M., Lippert, S., Collins, K., Pineda, N., Tolani, A., Walker, R., Jeong, M., Trounce, M. B., Graham-Lamberts, C., Bersamin, M., Martinez, J., Dotzler, J., Vanek, et al  
2014; 30 (12): 856-861
- **How contagious pathogens could lead to nuke-level casualties.** <http://med.stanford.edu/ism/2014/may/bioterror-0519.html>  
Goldman, B.  
2014; May
- **FDA Food Safety Modernization Act: Is it Enough?** *J Bioterr Biodef*  
Coates, A., Boukhman Trounce, M.  
2011; 2 (109)
- **Humming is as effective as Valsalva's maneuver and Trendelenburg's position for ultrasonographic visualization of the jugular venous system and common femoral veins** *ANNALS OF EMERGENCY MEDICINE*  
Lewin, M. R., Stein, J., Wang, R., Lee, M. M., Kernberg, M., Boukhman, M., Hahn, I., Lewiss, R. E.  
2007; 50 (1): 73-77
- **Cholera** *Disaster Medicine. Philadelphia:Elsevier*  
Boukhman MB, Ciotton GR  
2005
- **Sustainability of Emergency Medicine/ First Responder Training centers in the CIS** *3rd Emergency Medicine Mediterranean Congress (poster presentation)*  
Boukhman, M., Kelly S, Freitas R, Ciotton GR, Chen Y, Anderson PD  
2005
- **Atrial Fibrillation** *Micromedex*  
Boukhman MP, Wolfe R  
2003
- **Surgical Management of Insulinomas** *Atlas of Surgical Oncology*  
Boukhman MP, Perrier NI, Clark OH  
2003
- **Thresholds in contact sensitization: Immunologic mechanisms and experimental evidence in humans - an overview** *FOOD AND CHEMICAL TOXICOLOGY*  
Boukhman, M. P., Maibach, H. I.

2001; 39 (12): 1125-1134

- **Contact Urticaria Syndrome: Occupational Hazards.** *Clinics in Occupational and Environmental Medicine.*  
Boukhman MP, Maibach HI  
2001; 1(1) (1): 13-34
- **Localization of insulinomas** *70th Annual Session of the Pacific-Coast-Surgical-Association*  
Boukhman, M. P., Karam, J. M., Shaver, J., Siperstein, A. E., DeLorimier, A. A., Clark, O. H.  
AMER MEDICAL ASSOC.1999: 818-22
- **Allergic contact dermatitis from tropicamide ophthalmic solution** *CONTACT DERMATITIS*  
Boukhman, M. P., MAIBACH, H. I.  
1999; 41 (1): 47-48
- **Hyperinsulinemic Hypoglycemia in Children (poster presentation)** *Pacific Coast Surgical Association. 70th Annual Meeting.*  
Boukhman, M., Clark, OH  
1999
- **Localization of Insulinomas (abstract)** *JAMA*  
Boukhman MP, Siperstein AI, Clark OH  
1999; 282 (17): 1608
- **Insulinoma - Experience from 1950 to 1995** *WESTERN JOURNAL OF MEDICINE*  
Boukhman, M. P., Karam, J. H., Shaver, J., Siperstein, A. E., Duh, Q. Y., Clark, O. H.  
1998; 169 (2): 98-104