

# Mitsuru Mukaigawara, M.D., M.P.P.

Department of Government, Harvard University  
Address: 1737 Cambridge Street, Cambridge, MA 02138  
Website: [MitsuruMukaigawara.com](http://MitsuruMukaigawara.com)  
Email: [mitsuru\\_mukaigawara@g.harvard.edu](mailto:mitsuru_mukaigawara@g.harvard.edu)

## Education

### Harvard University

|   |                 |
|---|-----------------|
| Ph.D., Political Science, Department of Government  | 2027 (expected) |
| Committee: Marcella Alsan, Dara Cohen, Kosuke Imai, Joshua Kertzer (Chair)                  |                 |
| Douglas Dillon Fellow, Merit Award Fellow   |                 |
| A.M., Statistics, Department of Statistics  | 2027 (expected) |
| M.P.P., Harvard Kennedy School  | 2021            |
| Advisor: Marcella Alsan   |                 |
| Recipient of Robert Belfer Annual Award for best master's thesis in international relations |                 |
| Visiting Medical Student, Harvard Medical School  | 2012            |

### Tokyo Medical and Dental University (Institute of Science Tokyo)

|      |      |
|------|------|
| M.D. | 2013 |
|------|------|

## Selected Working Papers

(\* Authors' names are alphabetized.)

1. Infection and insurrection  
Mitsuru Mukaigawara
2. The scourge of war: Health forecasts for nuclear war, conventional war, and political violence, 2026–2100  
Mitsuru Mukaigawara, Amanda Smith, and Christopher J L Murray
3. [Survey estimates of wartime mortality\\*](#)  
Gary King and Mitsuru Mukaigawara
4. [Spatiotemporal causal inference with arbitrary spillover and carryover effects: Airstrikes and insurgent violence in the Iraq war](#)  
Mitsuru Mukaigawara, Kosuke Imai, Jason Lyall, and Georgia Papadogeorgou
5. [geocausal: An R package for spatio-temporal causal inference](#)  
Mitsuru Mukaigawara, Lingxiao Zhou, Georgia Papadogeorgou, Jason Lyall, and Kosuke Imai

## Peer-Reviewed Publications

### Political Science

1. [Diplomacy by committee: Assessing resolve and costly signals in group settings](#)  
Carly Wayne, Mitsuru Mukaigawara, Joshua Kertzer, and Marcus Holmes  
*American Journal of Political Science*. 2025+.

## Medicine

1. **Impact of the national health guidance intervention for obesity and cardiovascular risks on healthcare utilisation and healthcare spending in working-age Japanese cohort: Regression discontinuity design**  
Shingo Fukuma, Mitsuru Mukaigawara, Toshiaki Iizuka, and Yusuke Tsugawa  
*BMJ Open*. 2022;12(7):e056996.
2. **Balancing science and political economy: Tobacco control and global health**  
Mitsuru Mukaigawara, Janelle Winters, Genevie Fernandes, and Devi Sridhar  
*Wellcome Open Research*. 2018;3(40).
3. **Global, regional, and national comparative risk assessment of 79 behavioural, environmental and occupational, and metabolic risks or clusters of risks in 188 countries, 1990–2013: A systematic analysis for the Global Burden of Disease Study 2013**  
GBD 2013 Risk Factors Collaborators  
*Lancet*. 2015;386(10010):2287–2323.
4. **Global, regional, and national disability-adjusted life years (DALYs) for 306 diseases and injuries and healthy life expectancy (HALE) for 188 countries, 1990–2013: Quantifying the epidemiological transition**  
GBD 2013 DALYs and HALE Collaborators  
*Lancet*. 2015;386(10009):2145–2191.
5. **Global, regional, and national incidence, prevalence, and years lived with disability for 301 acute and chronic diseases and injuries in 188 countries, 1990–2013: A systematic analysis for the Global Burden of Disease Study 2013**  
GBD 2013 Collaborators  
*Lancet*. 2015;386(9995):743–800.
6. **Global, regional, and national age-sex specific all-cause and cause-specific mortality for 240 causes of death, 1990–2013: A systematic analysis for the Global Burden of Disease Study 2013**  
GBD 2013 Mortality and Causes of Death Collaborators  
*Lancet*. 2015;385(9963):117–171.
7. **Global, regional, and national incidence and mortality for HIV, tuberculosis, and malaria during 1990–2013: A systematic analysis for the Global Burden of Disease Study 2013**  
GBD 2013 Collaborators  
*Lancet*. 2014;384(9947):1005–1070.
8. **Global, regional, and national levels and causes of maternal mortality during 1990–2013: A systematic analysis for the Global Burden of Disease Study 2013**  
GBD 2013 Collaborators  
*Lancet*. 2014;384(9947):980–1004.
9. **Vaccination of healthcare workers to protect patients at increased risk of acute respiratory disease: Summary of a systematic review**  
Gayle Dolan, Rebecca Harris, Mandy Clarkson, Rachel Sokal, Gemma Morgan, Mitsuru Mukaigawara, Hiroshi Horiuchi, Rachel Hale, Laura Stormont, Laura Béchard-Evans, Yi-Sheng Chao, Sergey Eremin, Sara Martins, John S Tam, Javier Penalver, Arina Zanuzadana, and Jonathan S Nguyen-Van-Tam  
*Influenza and Other Respiratory Viruses*. 2013;7:93–96.
10. **Influenza vaccination for immunocompromised patients: Summary of a systematic review and meta-analysis**

Charles Beck, Bruce McKenzie, Ahmed Hashim, Rebecca Harris, Arina Zanuzdana, Gabriel Agboado, Elizabeth Orton, Laura Béchard-Evans, Gemma Morgan, Charlotte Stevenson, Rachel Weston, Mitsuru Mukaigawara, Joanne Enstone, Glenda Augustine, Mobasher Butt, Sophie Kim, Richard Puleston, Girija Dabke, Robert Howard, Julie O'Boyle, Mary O'Brien, Lauren Ahyow, Helene Denness, Siobhan Farmer, Jose Figureroa, Paul Fisher, Felix Greaves, Munib Haroon, Sophie Haroon, Caroline Hird, Rachel Isba, David A Ishola, Marko Kerac, Vivienne Parish, Jonathan Roberts, Julia Rosser, Sarah Theaker, Dean Wallace, Neil Wigglesworth, Liz Lingard, Yana Vinogradova, Hiroshi Horiuchi, Javier Penalver, and Jonathan S Nguyen-Van-Tam  
*Influenza and Other Respiratory Viruses.* 2013;7:72–75.

11. [Influenza vaccination for immunocompromised patients: Systematic review and meta-analysis by etiology](#)

Charles Beck, Bruce McKenzie, Ahmed Hashim, Rebecca Harris, UNIIC Study Group, and Jonathan Nguyen-Van-Tam  
*Journal of Infectious Diseases.* 2012;206(8):1250–1259.

Policy citations: [Government of the Netherlands \(2019\)](#)

12. [Vaccination of health care workers to protect patients at increased risk for acute respiratory disease](#)

Gayle Dolan, Rebecca Harris, Mandy Clarkson, Rachel Sokal, Gemma Morgan, Mitsuru Mukaigawara, Hiroshi Horiuchi, Rachel Hale, Laura Stormont, Laura Béchard-Evans, Yi-Sheng Chao, Sergey Eremin, Sara Martins, John S Tam, Javier Penalver, Arina Zanuzadana, and Jonathan Nguyen-Van-Tam  
*Emerging Infectious Diseases.* 2012;18(8):1225–1234.

Policy citations: [World Health Organization \(2014\)](#), [WHO Regional Office for Europe \(2017\)](#)

13. [Influenza vaccination for immunocompromised patients: Systematic review and meta-analysis from a public health policy perspective](#)

Charles Beck, Bruce McKenzie, Ahmed Hashim, Rebecca Harris, Arina Zanuzdana, Gabriel Agboado, Elizabeth Orton, Laura Béchard-Evans, Gemma Morgan, Charlotte Stevenson, Rachel Weston, Mitsuru Mukaigawara, Joanne Enstone, Glenda Augustine, Mobasher Butt, Sophie Kim, Richard Puleston, Girija Dabke, Robert Howard, Julie O'Boyle, Mary O'Brien, Lauren Ahyow, Helene Denness, Siobhan Farmer, Jose Figureroa, Paul Fisher, Felix Greaves, Munib Haroon, Sophie Haroon, Caroline Hird, Rachel Isba, David A Ishola, Marko Kerac, Vivienne Parish, Jonathan Roberts, Julia Rosser, Sarah Theaker, Dean Wallace, Neil Wigglesworth, Liz Lingard, Yana Vinogradova, Hiroshi Horiuchi, Javier Penalver, and Jonathan S Nguyen-Van-Tam  
*PLoS ONE.* 2011;6(12):e29249.

## Medicine: Clinical Case Reports and Case Series

1. [Clinical problem-solving: A curve ball](#)

Mitsuru Mukaigawara, Reza Manesh, Mitsuyo Kinjo, Shuichi Sugita, and Andrew P.J. Olson  
*New England Journal of Medicine.* 2020;383(10):970–975.

2. [Acute aortic dissection masquerading as acute pericarditis](#)

Kazuhito Hirata, Jun-ichi Shimotakahara, Izumi Nakayama, Mitsuru Mukaigawara, Minoru Wake, Toshiho Tengan, and Hidemitsu Mototake  
*Internal Medicine.* 2020;59(16):2009–2013.

3. [Clinical characteristics of disseminated strongyloidiasis, Japan, 1975–2017](#)

Mitsuru Mukaigawara, Masashi Narita, Soichi Shiiki, Yoshihiro Takayama, Shunichi Takakura, and Tomokazu Kishaba

*Emerging Infectious Diseases.* 2020;26(3):401–408.

4. [Progressive dyspnea in a woman with genital skin lesions](#)  
Hiroyuki Teruya, Mitsuru Mukaigawara, and Kazuhito Hirata  
*JAMA Oncology.* 2020;6(3):433–434.
5. [Clinical care conundrum: Past is prologue](#)  
Mitsuru Mukaigawara, Mitsuyo Kinjo, Andrew Olson, Yoshihiko Raita, and Vivek Murthy  
*Journal of Hospital Medicine.* 2019;14(8):501–505.
6. [Acute esophageal necrosis associated with \*Strongyloides stercoralis\* hyperinfection](#)  
Maiko Tomori, Mitsuru Mukaigawara, and Masashi Narita  
*American Journal of Tropical Medicine and Hygiene.* 2019;100(5):1037–1038.
7. [Severe CNS angiostrongyliasis in a young marine: A case report and literature review](#)  
Liane McAuliffe, Shannon Ensign, Derek Larson, Mary Bavaro, Joseph Yetto, Michael Cathey, Mitsuru Mukaigawara, Masashi Narita, Kiyofumi Ohkusu, and Timothy Quast  
*Lancet Infectious Diseases.* 2019;19(4):e132–e142.
8. [Fever, rash, and abnormal liver function test results](#)  
Mitsuru Mukaigawara and Shuichi Sugita  
*JAMA.* 2018;320(24):2591–2592.
9. [Strongyloidiasis and culture-negative suppurative meningitis, Japan, 1993–2015](#)  
Mitsuru Mukaigawara, Izumi Nakayama, and Koichiro Gibo  
*Emerging Infectious Diseases.* 2018;24(12):2378–2380.
10. [Diffusely elevated ST segments on electrocardiography](#)  
Mitsuru Mukaigawara, Kazuhito Hirata, and Minoru Wake  
*JAMA Cardiology.* 2016;1(2):229–230.

## Commentary

1. [Lessons from COVID-19 must be learned before the next outbreak](#)  
Ines Hassan, Genevie Fernandes, Mitsuru Mukaigawara, and Devi Sridhar  
*Nature Medicine.* 2023;29(9):2171–2173.  
  
Media coverage: [The Guardian](#)  
Policy citations: [The Independent Panel for Pandemic Preparedness and Response \(2022\)](#)
2. [An equitable roadmap for ending the COVID-19 pandemic](#)  
Mitsuru Mukaigawara, Ines Hassan, Genevie Fernandes, Lois King, Jay Patel, and Devi Sridhar  
*Nature Medicine.* 2022;28(5):893–896.  
  
Policy citations: [Organisation for Economic Co-operation and Development \(2023\)](#),  
[Government of Ireland \(2023\)](#)
3. [Hindsight is 2020? Lessons in global health governance one year into the pandemic](#)  
Ines Hassan, Mitsuru Mukaigawara, Lois King, Genevie Fernandes, and Devi Sridhar  
*Nature Medicine.* 2021;27(3):396–400.  
  
Policy citations: [Organisation for Economic Co-operation and Development \(2023\)](#),  
[Government of Ireland \(2023\)](#)
4. [Going home, dying](#)  
Mitsuru Mukaigawara  
*JAMA Internal Medicine.* 2016;176(11):1603.

## Statistical Software

1. [trimsib: Survey estimates of wartime mortality](#)  
Mitsuru Mukaigawara and Gary King  
(Maintainer and Author)
2. [geocausal: Causal inference with spatio-temporal data](#)  
Mitsuru Mukaigawara, Georgia Papadogeorgou, Jason Lyall, and Kosuke Imai  
(Maintainer and Author; available through [CRAN](#))

## Awards and Honors

1. *Weatherhead Dissertation Writing Grant Fellowship*, Harvard University Weatherhead Center for International Affairs (2026).
2. *Merit Award Fellowship* for academic excellence and scholarly achievements (top 2 departmental nominee; selected among top 20% university-wide), awarded by Harvard University (2025).
3. *Hans J. Morgenthau Fellowship*, the University of Notre Dame (2024).
4. *Douglas Dillon Fellowship*, Harvard University (2022—2025).
5. *Katzin Prize Fellowship*, the University of California San Diego (2021; declined).
6. *Robert Belfer Annual Award* for “best Policy Analysis Exercise (master’s thesis) in international relations,” awarded by Harvard Kennedy School (2021).
7. *Graham T. Allison, Jr. Fellowship (Belfer Young Leader Fellowship)* for “a track record of leadership and academic or professional excellence,” awarded by Harvard Kennedy School (2020—2021).
8. *Fulbright Scholarship*, Fulbright Foundation (2019; declined).
9. *Ito Foundation Scholarship*, Ito Foundation for International Education Exchange (2019).
10. *Dean’s Scholarship*, Johns Hopkins University School of Advanced International Studies (2019; declined).
11. *Tuition Scholarship*, Georgetown University Walsh School of Foreign Service (2019; declined).
12. *Chief Resident Award* for outstanding leadership, clinical competence, and commitment to the residency program as Chief Medical Resident, awarded by the University of Hawaii Postgraduate Medical Education Program at Okinawa Chubu Hospital (2018).
13. *Best Resident Award* for outstanding leadership and clinical competence, awarded by the University of Hawaii Postgraduate Medical Education Program at Okinawa Chubu Hospital (2015, 2016, 2017, 2018).
14. *Presidential Scholar Fellowship* for participation in the exchange clinical clerkship program at Harvard Medical School, awarded by Tokyo Medical and Dental University (Institute of Science Tokyo) (2012).

## Publications in Japanese

(Books and Book Chapters)

### Book

1. Mitsuru Mukaigawara and Mitsuyo Kinjo. *Writing Case Reports*. Igaku Shoin, Tokyo, Japan, 2023.

## Book Chapters

1. Mitsuru Mukaigawara. Effective collaboration with external public health organizations. In Akane Futami and Koji Morishita, editors, *Pocket International Emergency Medicine Manual*, pages 103–105. Person Publishing, Tokyo, Japan, 2020.
2. Mitsuru Mukaigawara. Infection control procedures. In Akane Futami and Koji Morishita, editors, *Pocket International Emergency Medicine Manual*, pages 79–82. Person Publishing, Tokyo, Japan, 2020.
3. Mitsuru Mukaigawara. Outpatient care of patients with infectious diseases. In Akane Futami and Koji Morishita, editors, *Pocket International Emergency Medicine Manual*, pages 101–102. Person Publishing, Tokyo, Japan, 2020.
4. Mitsuru Mukaigawara. Pre-admission screening. In Akane Futami and Koji Morishita, editors, *Pocket International Emergency Medicine Manual*, pages 106–108. Person Publishing, Tokyo, Japan, 2020.
5. Mitsuru Mukaigawara. Routine and traveler vaccinations. In Akane Futami and Koji Morishita, editors, *Pocket International Emergency Medicine Manual*, pages 109–115. Person Publishing, Tokyo, Japan, 2020.

## Selected Research Grants

### Harvard University

1. Weatherhead Pre-/Mid-dissertation Grant (2024, 2025).
2. Weatherhead Graduate Student Associate Research Grant (2024).
3. John C. Hansen & Katherine Vogelheim Research Fund (2023).
4. Harvard Data Science Initiative Research Grant (2023; with Gary King and Stefano Iacus).

### External

1. Toyota Foundation the 50th Anniversary Grant (2025—2027). “The Future of Global Health Security,” (D24-HS-0049). Principal Investigator. \$13,557.
2. Suntory Foundation Grant for Groundbreaking Young Researchers (2024—2025). “The Effects of Infectious Disease Outbreaks on Conflict,” (2023-315). Principal Investigator. \$6,700.

## Teaching

### Harvard University (Teaching Fellow)

|   |             |
|---|-------------|
| GOV 1742: Psychology of International Relations (Teaching Fellow for Joshua Kertzer)      | Spring 2025 |
| GOV 1790: American Foreign Policy (Teaching Fellow for Joshua Kertzer)                    | Fall 2024   |
| GOV 2002: Causal Inference with Applications (PhD-level; Teaching Fellow for Kosuke Imai) | Spring 2024 |
| GOV 2001: Probability Theory (PhD-level; Teaching Fellow for Matthew Blackwell)           | Fall 2023   |

## Presentations

### Invited Presentations

2025      The *Lancet* Commission on 21st-Century Global Threats to Health; German Research Center for Artificial Intelligence; Nospare, Inc; Institute of Science Tokyo; Institute for Health Metrics and

|      |  |  |
|------|--|--|
|      | Evaluation, University of Washington   |  |
| 2024 | Institute for Health Metrics and Evaluation, University of Washington; The <i>Lancet</i> Commission on 21st-Century Global Threats to Health; Suntory Foundation |  |
| 2023 | Tufts University   |  |

### Association Conferences

|  |            |
|--|------------|
| Peace Science Society  | 2025       |
| Society for Political Methodology (PolMeth)                    | 2025       |
| Japanese Society for Quantitative Political Science            | 2025       |
| International Studies Association (ISA)                        | 2022, 2024 |
| Prince Mahidol Award Conference                                | 2019       |
| Infectious Disease Society of America Annual Meeting (ID Week) | 2016       |
| European Scientific Working Group on Influenza Conference      | 2011       |

### Service

#### Referee Service

*Acta Tropica, American Journal of Tropical Medicine and Hygiene (x2), Annals of Internal Medicine (x3), BMJ Open, Journal of Global Health, Journal of Health Economics, Nature Medicine, World Development*

#### Consultant Service

|   |      |
|---|------|
| WHO Meeting on the Diagnostic Methods for the Control of Strongyloidiasis | 2020 |
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#### Department

|   |           |
|---|-----------|
| Graduate Student Representative, Curriculum and Educational Policy Committee          | 2024—     |
| Political Violence Workshop Coordinator, Weatherhead Center for International Affairs | 2022—2023 |

### Medical Experience

#### Employment

|   |           |
|---|-----------|
| Attending Physician (Medicine and Infectious Diseases), Okinawa Miyako Hospital     | 2018—2019 |
| Visiting Scholar, Global Health Governance Program, University of Edinburgh         | 2017      |
| Global Burden of Disease Expert, Institute for Health Metrics and Evaluation        | 2013—2015 |
| Intern / Individual Contractor, Global Influenza Program, World Health Organization | 2011—2012 |
| Research Assistant, WHO Center for Healthy Cities and Urban Policy                  | 2008—2011 |

#### Postgraduate Medical Education

|   |      |
|---|------|
| Fellowship in Infectious Diseases, Okinawa Chubu Hospital | 2018 |
| Chief Medical Residency, Okinawa Chubu Hospital           | 2018 |
| Residency in Internal Medicine, Okinawa Chubu Hospital    | 2016 |

## Skills

### Programming and Software

R, Python, L<sup>A</sup>T<sub>E</sub>X, ArcGIS, HTML/CSS

### Languages

English, Japanese, French (intermediate)

### Certification

GOARN Tier 1.5 (Infection Prevention and Control), Global Outbreak Alert and Response Network

Certificate in Management, Leadership, and Decision Sciences, Harvard Kennedy School

Board Certification in Internal Medicine, Japanese Society of Internal Medicine

Last updated: September 2025