

Sai University
School of Arts & Sciences
School of Computing & Data Science
School of Law

2022-2023 Semester A

Global Challenges

Convenors

Sherman Teichman
Professor of the Practice of International Relations and Global Affairs
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Cody Valdes
Senior Lecturer and Senior Tutor
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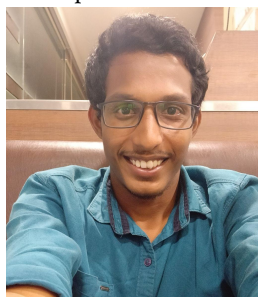
Jyotsna Badrinarayanan
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Shaheer Rahman
Columbia University, New York City
Colloquium Teaching Assistant



Tarun Kumar Reddy
Colloquium Intern/Graphic Designer



Requirements

Informed Participation:	Students are expected to have read the readings before the discussion and main lecture and to come to both sessions prepared to exchange their views and understandings of the issues. All students will submit 3-5 carefully articulated questions prior to each guest lecture.
Assessments:	Take-home papers will be assigned at the middle and end of semester. One paper may be a research paper in preparation for or subsequent to an internship related to Global Challenges.
Grading:	Mid-term (40%) Final (45%) Participation (15%)
Academic Integrity:	Students will be held to the highest standards of academic integrity. While students are encouraged to discuss lectures, readings and assignments amongst themselves, they must submit only original work that is the product of their own efforts and ideas. There will be zero tolerance for plagiarism, dishonesty, misrepresentation, or cheating of any kind.
Recordings:	Video and audio recordings for the 2021-2022 Global Challenges colloquia are available on the following Google Drive folder and posters on Sherman's Trebuchet website . Lecture recordings will be uploaded to Google Drive during the semester.

Summary

Week 1 - T.S. Gopi Rethinaraj, Population Dynamics and Global Demographic Evolution

Week 2 - Ayesha Jalal & Sugata Bose, India and Pakistan at 75 - Internal Dynamics and External Relations

Week 3 - Admiral RK Dhowan & Peter Droege, The Global Maritime Accord: The Environmental and Strategic Challenges of the Oceans

Week 4 - Chandler Rosenberger, Identity and Dignity: The Persistence of Nationalism in a Globalizing World

Week 5 - Steven Miller, The Geopolitical Challenge of China

Week 6 - Ethan Corbin, The Challenges to Euro-Atlantic Security. Russia, China and Revisionist Authoritarian States

Week 7 - Don Thieme, Ukraine - A Case Study of Conflict and Complexity

Week 8 - Tanvi Kulkarni, Managing the China, India, and Pakistan Nuclear Trilemma

Week 9 - Gary Samore, Nuclear Threats? Iran/North Korea/Ukraine

Week 10 - Jason Clay, Food Production in the 21st Century: Issues and Trends

Week 11 - Bill Moomaw & Peter Droege, The Climate Challenge for India and the World - and Opportunities for Responding

Week 12 - Turhan Canli, Global Brain Health in Times of War and Forced Migration

Week 13 - Lucas Kello, The Challenges of Governance in Space

Week 14 - Ananda Paez, The Challenges of Poverty and Pandemics: Social Protection Approaches to New Shocks

Week 15 - Eli Levite, The Challenges of Cyber Conflict

Lectures

Week 1

Introduction to the Course/Syllabus

T.S. Gopi Rethinaraj

Population Dynamics and Global Demographic Evolution

Monday, 19 September 2022

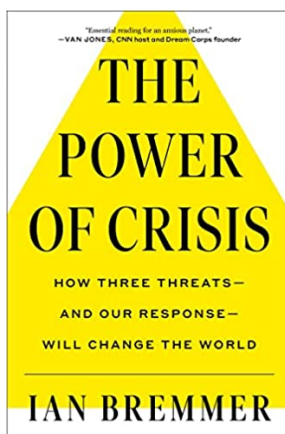
18:00 IST / 8:30 EDT

[Sherman Teichman](#)

Introduction to Syllabus

The Power of Crisis: How Three Threats- and our Response- Will Change the World, Ian Bremmer.

Students will be assigned to read this volume over the course of the semester. I will join you in your recitations over the course of the semester, linking this reading whose threats are political polarisation, pandemics, the environment, and disruptive technology - e.g. cyber, AI, autonomous and nuclear weapons, machine learning quantum computers – to appropriate lectures



[T.S. Gopi Rethinaraj](#)



Professor of Physics, Sustainability & Public Policy, in the School of Arts and Sciences of Sai University.

Readings:

David Adam, 'How Far will Global Populations Rise?' *Nature* 597 (September 2021): 462-65 [link](#)

'India becoming world's most populous country may strengthen its claim for permanent UNSC membership: U.N. official,' *The Hindu* (12 July 2022) [link](#)

United Nations. 'World Population Prospects 2022: Summary of Results.' [PDF](#)

Week 2

Ayesha Jalal & Sugata Bose

India and Pakistan at 75 - Internal Dynamics and External Relations

Monday, 26 September 2022

18:00 IST / 8:30 EDT

[Ayesha Jalal](#) & [Sugata Bose](#)



Ayesha Jalal is Mary Richardson Professor of History at Tufts University.

Sugata Bose is Gardiner Chair of Oceanic History and Affairs at Harvard University.

Readings:

Sugata Bose and Ayesha Jalal, 'Introduction: Islam is the Ocean'

Sugata Bose and Ayesha Jalal, 'When Democracy Breaks: The Indian Emergency (1975-1977) In Historical Perspective'

Week 3

Admiral RK Dhowan & Peter Droege

The Global Maritime Accord: The Environmental and Strategic Challenges of the Oceans

Tuesday, 4 October 2022

18:00 IST / 8:30 EDT

Discussion: 17:00 IST City Campus

[Admiral RK Dhowan & Peter Droege](#)



Admiral Dhowan was the 22nd Chief of Naval Staff of the Indian Navy.

Prof. Peter Droege directs the Liechtenstein Institute for Strategic Development (LISD), the global advisory and research organization for the rapid transition to regenerative communities, cities, regions and infrastructure.

Readings:

Society for Aerospace, Maritime and Defence Studies, 'Global Maritime Accord' PDF

'Independence Day Message,' *Sea and Coast* (August 2021) PDF

David Ronfeldt & John Arquilla, 'Whose Story Wins,' Ch. 7, 'Hope for the Noosphere and Noopolitik' (Rand Corporation, 2020): pp. 51-68 PDF

Additional Material:

'Regenerative Earth Decade: 100% Renewables are only the Beginning,' (EUROSOLAR, 9 November 2020)

'The Global Commons,' (Global Commons Alliance, 2020)

'Safeguarding the Global Commons,' (Global Environmental Facility, 2022)

Week 4

Chandler Rosenberger

Identity and Dignity: The Persistence of Nationalism in a Globalizing World

Monday, 10 October 2022

18:00 IST / 8:30 EDT

[Chandler Rosenberger](#)



Chandler Rosenberger is Associate Professor of International and Global Studies and Sociology.

Readings:

Greenfeld, Liah. "The Political Significance of Culture." *Nationalism and the Mind: Essays on Modern Culture*.

Lutsevych, Orysia. "Why Putin doesn't understand the country he invaded," *The Sunday Times*, 02 October 2022.

Salam, Reihan. "The Virtues of Nationalism," *The Atlantic*, 10 November 2018.

Week 5

Steven Miller

The Geopolitical Challenge of China

Monday, 17 October 2022

18:00 IST / 8:30 EDT

[Steven Miller](#)



Steven E. Miller is Director of the International Security Program, Editor-in-Chief of the quarterly journal, *International Security* and also co-editor of the International Security Program's book series, *Belfer Center Studies in International Security* (which is published by the MIT Press).

Readings:

Hal Brands and Michael Beckley, 'What does China Want?' *Foreign Policy*, 13 August 2022

Andrew Sorkin, 'Dealbook: Xi's Blueprint for China,' *The New York Times*, 08 October 2022.

Ian Johnson, 'China: Back to Authoritarianism,' *The New York Review*, October 2022.

Jessica Chen Weiss, 'The China Trap: US Foreign Policy and the Perilous Logic of Zero Sum Competition,' *Foreign Affairs*, Sep/Oct 2022.

Week 6

Ethan Corbin

The Challenges to Euro-Atlantic Security. Russia, China and Revisionist Authoritarian States

Tuesday, 25 October 2022

18:00 IST / 8:30 EDT

Ethan Corbin



Ethan Corbin is the Director of the Defence and Security Committee at the NATO Parliamentary Assembly.

Readings:

Angela Stent, "Russia and China: Axis of Revisionists?" Brookings, February 2020. [Link](#)

Alina Polyakova and Ilya Timtchenko, "Time for NATO to Take Lead in Ukraine: The War's Next Phase Will Demand More from the Alliance," *Foreign Affairs*, 4 August 2022. [link](#)

Andrew Doris and Thomas Graham, "What Putin Fights For," *Survival* (August-September 2022) PDF

Rodric Braithwaite, "Hope Deferred: Russia from 1991-2021," *Survival* (February-March 2022) PDF

Sharinee Jagtiani and Sophia Wellek, "In the Shadow of Ukraine: India's Choices and Challenges," *Survival* (June-July 2022) PDF

Hal Brands and Michael Beckley, "What Does China Want? Beijing's Ambitions are About to Crash Into Its Problems," *Foreign Policy* (13 August 2022) [link](#)

Further reading:

Fiona Hill and Angela Stent, "The World Putin Wants: How Distortions About the Past Feed Delusions About the Future," *Foreign Affairs* (September-October 2022) [link](#)

Anne Applebaum, "The Bad Guys Are Winning," *The Atlantic* (December 2021) [link](#)

Week 7

Don Thieme

Ukraine - A Case Study of Conflict and Complexity

Monday, 31 October 2022

18:00 IST / 7:30 EDT

Don Thieme



Don Thieme, Ph.D., Associate Professor, Maritime Advanced Warfighting School

Readings:

1. 'Life in Vladimir Putin's Russia explained in 10 charts,' BBC, 12 March 2018.
2. 'RAND Experts React to Putin's Latest Threatening Rhetoric,' RAND Corporation, 21 September 2022.
3. 'Protecting Ukraine's Future Security,' RAND Corporation, 10 October 2022.
4. 'Ukraine's 1777 Moment,' RAND Corporation, 19 September 2022.
5. Hart, Benjamin. 'What if Putin Actually Uses Nukes on Ukraine?' *New York Magazine*, Intelligencer, 08 October 2022.
6. 'Russia's longstanding problem with Ukraine's borders,' *Chatham House*, 24 August 2022.
7. Yaffa, Joshua. 'Inside the U.S. Effort to Arm Ukraine,' *The New Yorker*, 17 October 2022.
8. Reynolds, Maura. 'Fiona Hill: Elon Musk is Transmitting a Message for Putin,' *Politico*, 17 October 2022.
9. Sachs, Jeffrey. 'Biden's Foreign Policy is Sinking the Congressional Dems - and Ukraine,' *Common Dreams*, 30 October 2022.

Midterm Paper Assigned

Week 8

Tanvi Kulkarni

Managing the China, India, and Pakistan Nuclear Trilemma

Monday, 7 November 2022

18:00 IST / 7:30 EST

Tanvi Kulkarni



Tanvi Kulkarni is a Policy Fellow at APLN.

Readings:

1. Manpreet Sethi, Contemporary Nuclear Dynamics in Southern Asia: Many Challenges, Few Possibilities, NUPI-APLN Policy Brief 82, 2022.
 2. Yun Sun and Hannah Haegeland, China and Crisis Management in South Asia, in Sameer Lalwani and Hannah Haegeland (eds.), Investigating Crises: South Asia's Lessons, Evolving Dynamics and Trajectories, Stimson Center: 2018.
 3. Tanvi Kulkarni, Managing the Nuclear Trilemma Between China, India and Pakistan, APLN-Toda Peace Institute Special report, July 2022
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Week 9

Gary Samore

Nuclear Threats? Iran/North Korea/Ukraine

Monday, 14 November 2022

18:00 IST / 7:30 EST

[Gary Samore](#)



Professor of the Practice of Politics and Crown Family Director of the Crown Center for Middle East Studies, Brandeis University
Ph.D Harvard University

Readings:

1. Gary Samore, "How Close is Iran to the Bomb? The Limits of Nuclear Breakout," Crown Center for Middle East Studies, *Middle East Brief*, August 2022.
 2. Scott Snyder, "North Korea has Escalated its Military Provocations: Here's Why", *Council on Foreign Relations*, November 4, 2022.
 3. J. Andres Gannon, "If Russia Goes Nuclear: Three Scenarios for the Ukraine War", *Council on Foreign Relations*, November 9, 2022.
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Week 10

Jason Clay

Food Production in the 21st Century: Issues and Trends

Monday, 21 November 2022

18:00 IST / 7:30 EST

Jason Clay



Readings:

1. White Paper - The Use of Long Term Contracts to Leverage Investments in More Sustainable Agriculture.
 2. Garden, Leah. "The hidden emissions in the global food supply chain," *Green Biz*, 16 November 2022.
 3. Sustainability Works, "A Journey Towards Deforestation-Free Leather," *World Wildlife Fund*, 14 November 2022.
 4. WWF Concept - Women, Carbon and Seaweed Farming in the Philippines, *World Wildlife Fund*.
 5. Codex Planetarius Proof of Concept, Proposal to the Gordon and Betty Moore Foundation, *World Wildlife Fund*, 24 June 2022.
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Week 11

Bill Moomaw & Peter Droege

The Climate Challenge for India and the World - and Opportunities for Responding

Monday, 28 November 2022

18:00 IST / 7:30 EST

Bill Moomaw & **Peter Droege**



Readings:

The key alert paper for our session:

www.doi.org/10.1093/biosci/biac083

The do-nothing impact of this:

www.climatetrace.org/map

.... may well be this Indian and global outlook by 2070, or sooner:

www.probablefutures.org/maps/?volume=heat&selected_map=cl59m7jcm001414o1hqf8x68l&warming_scenario=1#2.57/21.84/82.93

How does this human technology help, as propagated by these institutions?

www.mnre.gov.in/

www.irena.org

www.ren21.net/

www.wcre.org

www.eurosolar.org

www.un.org/en/climatechange/what-is-renewable-energy

www.weforum.org/agenda/2022/07/india-investment-renewables-green-energy/

www.renewablecity.org

What is the role of this ancient planetary technology?

www.science.org/doi/10.1126/science.abo6547

www.nrcan.gc.ca/climate-change-adapting-impacts-and-reducing-emissions/climate-change-impacts-forests/forest-carbon/13085

www.nature.com/collections/bdccebdbgj/how-to-submit?gclid=EAIaIQobChMIxvuwqZ3C-wIVReh3Ch0PDQp-EAMYASAAEgI9-PD_BwE

Key questions: Can either work on their own? And what must be done now, and by whom?

'Toxic cover-up': UN blasts oil majors' fake net zero pledges (climatechangenews.com)

Week 12

Turhan Canli

Global Brain Health in Times of War and Forced Migration

Monday, 5th December 2022

18:00 IST / 7:30 EST

[Turhan Canli](#)



Readings:

1. White Paper - Self Reported Trauma Experiences among Syrian Civilians in an Active War Zone.
2. Refugee Mental Health Through the Lens of Neuroscience and Genetics, EuropeNow Journal, 31 January 2017.

Week 13

Lucas Kello

The Challenges of Governance in Space

Monday, 12 December 2022

16:00 IST / 5:30 EST

[Lucas Kello](#)



Readings:

- www.tandfonline.com/doi/abs/10.1080/14777622.2010.524131%20
 - https://link.springer.com/chapter/10.1007/978-981-10-4926-2_4%20
 - <https://www.sciencedirect.com/science/article/abs/pii/S0265964620300424%20>
 - <https://link.springer.com/book/10.1007%2F978-3-319-54364-2%20> (Chapters 1-5)
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Week 14

Ananda Paez

The Challenges of Poverty and Pandemics: Social Protection Approaches to New Shocks

Monday, 19 December 2022

18:00 IST / 7:30 EST

[Ananda Paez](#)



Readings:

Week 15

Eli Levite

The Challenges of Cyber Conflict

Tuesday, 27 December 2022

17:30 IST / 7:00 EST

[Eli Levite](#)



Readings: