



Jayson Toweh

Ph.D. Student in Environment and Resources, admitted Autumn 2021

 Curriculum Vitae available Online

Bio

BIO

Jayson Toweh is an E-IPER PhD student focusing on identifying the health, environmental, and social impacts of climate change and creating co-benefits from developing sustainable energy transition.

He holds a bachelor's degree from the University of Michigan's Program in the Environment and a master's degree in Environmental Health from the Harvard T.H. Chan School of Public Health. His thesis focused on evaluating and mapping emission changes after installing scrubbers to coal power plants.

Prior to Stanford, Jayson worked as a Management and Program Analyst at the U.S. Environmental Protection Agency in the Office of Inspector General, where he evaluated EPA's water programs and made recommendations for improvement. Jayson was elected and serves on the Harvard Board of Overseers, the university's governing board.

HONORS AND AWARDS

- Gates Millennium Scholar, Bill and Melinda Gates Foundation (2013)
- CDC Undergraduate Public Health Scholar, Centers for Disease Control and Prevention (2015)
- John R. Lewis Fellow, The Faith & Politics Institute (2022)
- Innovation Award, Electronic Waste Case Study, Galaxy Conference (2018)
- 2nd Place, The Breathing Roof, Princeton Environmental Ideathon (2017)
- Enhancing Diversity in Graduate Education Fellow, Office of Vice Provost for Graduate Education (2021)
- Graduate Public Service Center, Haas Public Service Center (2021)
- Excellence Award, U.S. Environmental Protection Agency (2016)
- Dean's Grad Scholar, Stanford Doerr School of Sustainability (2021)
- Outstanding Paper, The World's Electronic Graveyard, Harvard-Kaohsiung Medical University (2018)

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Overseer, Harvard Board of Overseers (2020 - present)
- Member, National Environmental Health Association (2020 - present)
- Member, American Public Health Association (2019 - present)
- Co-founder and member, Harvard Alumni for Climate and Environment Special Interest Group (2020 - present)

EDUCATION AND CERTIFICATIONS

- BS, University of Michigan , Program in the Environment (2017)
- SM, Harvard T.H. Chan School of Public Health , Environmental Health (2019)
- MBA, Quantic School of Business and Technology (2021)
- Certified in Public Health (CPH), National Board of Public Health Examiners (2020)

SERVICE, VOLUNTEER, AND COMMUNITY WORK

- Gen2End Ambassador
- Ambassador
- Climate Reality Leadership Corps
- Goodwill Ambassador

LINKS

- Wall Street Journal: Universities Cut Oil Investments as Student Activism Builds: [wsj.com/articles/universities-cut-oil-investments-as-student-activism-builds-11594719181](https://www.wsj.com/articles/universities-cut-oil-investments-as-student-activism-builds-11594719181)
- Wall Street Journal: Harvard University Board Gains Backers of Fossil Fuel Divestment: [wsj.com/articles/harvard-university-board-gains-backers-of-fossil-fuel-divestment-11598038138](https://www.wsj.com/articles/harvard-university-board-gains-backers-of-fossil-fuel-divestment-11598038138)
- New York Times: Climate Activists Gain Seats on Harvard Oversight Board: [nytimes.com/2020/08/21/climate/harvard-board-climate-change.html](https://www.nytimes.com/2020/08/21/climate/harvard-board-climate-change.html)
- Harvard Board of Overseers: <https://www.harvard.edu/about/leadership-and-governance/board-of-overseers/>
- Harvard Forward: [harvardforward.org/](https://www.harvardforward.org/)
- COP28: Stanford experts on 'loss and damage' and other topics to watch at the U.N. climate summit: sustainability.stanford.edu/news/cop28-stanford-experts-loss-and-damage-and-other-topics-watch-un-climate-summit
- COP28: Takeaways from the U.N. climate summit: sustainability.stanford.edu/news/cop28-takeaways-un-climate-summit
- Harvard Forward YouTube: www.youtube.com/@harvardforward668
- Towards a just and equitable carbon neutrality plan: voicesforcarbonneutrality.org/previous-webinars
- Earth Day Initiative: Earth Day 50- Climate & Our Communities-Divestment from Fossil Fuels: [instagram.com/tv/B_X2gosg4R9/?utm_source=ig_web_copy_link&igsh=MzRIODBiNWFIZA==](https://www.instagram.com/tv/B_X2gosg4R9/?utm_source=ig_web_copy_link&igsh=MzRIODBiNWFIZA==)
- Electronic Graveyard What is the solution to Ghana's e-waste dilemma?: [learnigala.com/cases/ewaste-in-ghana](https://www.learnigala.com/cases/ewaste-in-ghana)
- Faith and Politics Institute-Jayson Toweh: tinyurl.com/jtoweh-FPI
- Michigan Climate March CTN Soapbox: https://www.youtube.com/watch?v=ONWJI6IF63I&t=87s&ab_channel=MichiganClimateMarch
- Fox 2 Detroit: Let it Rip discussion on the aftermath of the 2016 Election: https://www.youtube.com/watch?v=iAWvdG0Gjrl&list=PLkEujbaQtuBz4JMbqLTUYN4Oz49N7axpP&ab_channel=YoungAmericansforFreedomattheUniversityofMichigan

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Assessing the Health Impacts of the Major California Outages between 2017-2019

This research aims to investigate the relationship between major power outages and hospitalizations in California. Using outage data between 2017 and 2019, we are working to identify the hospitalization rates following outages. Additionally, we are evaluating how severe weather-caused outages can further impact hospitalizations.

LAB AFFILIATIONS

- Jenny Suckale, SIGMA Group (9/1/2023)
- Stephen Luby, Stanford Luby Lab (9/1/2023)

Publications

PUBLICATIONS

- **Predicting power outages utilizing machine learning and sensitivity analysis** *Journal of Student Research*
Talukdar, A., Toweh, J.
2024; 13 (1)
- **Using the Distinctives of Higher Education to Accelerate Climate Action**
Toweh, J., Carter, T.
Second Nature.
2023
- **Universities: cut research links with fossil-fuel companies.** *Nature*
Kashtan, Y., Toweh, J., Hersbach, T. J.
2022; 612 (7940): 404
- **The world's electronic graveyard: What is the solution to Ghana's e-waste dilemma?** *World Development Perspectives*
Canavati, A., Toweh, J., Simon, A. C., Arbic, B. K.
2022; 26 (100433): 8
- **Holistic Review of the Implications of Autonomous Vehicles** *Journal of Student Research*
Wang, E., Toweh, J.
2022; 11 (3)
- **Evaluating the Psychological Impacts Related to COVID-19 of Vietnamese People Under the First Nationwide Partial Lockdown in Vietnam** *FRONTIERS IN PSYCHIATRY*
Le, X., Dang, A., Toweh, J., Nguyen, Q., Le, H., Do, T., Phan, H., Nguyen, T., Pham, Q., Ta, N., Nguyen, Q., Nguyen, A., Van Duong, et al
2020; 11: 824
- **Evaluating the Effectiveness of Scrubber Installation on Sulfur Dioxide Emissions from Coal Electricity Generating Units**
Toweh, J.
Harvard T.H. Chan School of Public Health.
2019 ; Master's thesis