

Yiguang Zhu

Baltimore, MD | 814-996-9046 | yzhu99@jh.edu | [LinkedIn](#) | [Personal Website](#)

PhD candidate with a background in biomedical and regulatory research, focused on translating evidence into policy recommendations and implementation-ready frameworks. I thrive in multidisciplinary teams spanning academia, nonprofits, and industry. Arnold Ventures' FDA Accountability works on strengthening approval standards, advancing clinical trial transparency, and protecting patient safety align closely with my passion.

EDUCATION

Johns Hopkins University | Whiting School of Engineering Baltimore, MD
PhD Candidate in Environmental Health and Engineering 07/2021 – 05/2026
Focus: Advancing regulatory acceptance of New Approach Methods (NAMs) via novel validation framework.

Johns Hopkins University | Bloomberg School of Public Health Baltimore, MD
ScM in Environmental Health – GPA: 3.95 08/2019 – 05/2021
Coursework: Risk Management, Environmental Law, Toxicology, Physiology, Statistical Methods.

Pennsylvania State University | College of Earth and Mineral Science State College, PA
BS in Environmental System Engineering - GPA: 3.73 08/2015 – 05/2019

SKILLS/LANGUAGE

Statistics/Software: R, MATLAB, Stata, MS Office Suite

Science Policy: Data-Driven Policy Analysis, Scientific Communication, Regulatory/Medical Writing

Laboratory Skills: hiPSC culture/differentiation, Tissue Engineering, Electrophysiology/Functional Assessment

Languages: Chinese (Native), English (Proficient)

EXPERIENCE

Intern | [National Center for Health Research](#), Washington DC 06/2025 – 08/2025
- Conducted regulatory/literature analysis on FDA policies including user fee programs, 510(k), EUAs, etc.
- Drafted internal reports, website articles, and public comments to FDA and NIH.

Doctoral Research | Johns Hopkins University 07/2021 – Present
- Developed a regulatory validation framework for NAMs for toxicology and efficacy testing.
- Validated the framework using evidence from 2D/3D in vitro cardiac model optimization and applications.
- Co-authored a [peer-reviewed journal article](#); presented the work at 4 international conferences.

PhD Researcher | [JHU Toxicology Policy Research Team](#) 06/2020 – Present
- Authored advocacy white papers; language was adopted in 2 reports of congressional appropriation bill.
- Facilitated annual meetings with congressional representatives' offices and supported 2 legislative hearings.

ScM Thesis Research | Johns Hopkins University 08/2019 – 05/2021
- Evaluated public health impacts of local radon mitigation ordinances; [published a journal article](#).
- Synthesized epidemiological data into policy recommendations and presented in 4 stakeholder meetings.

LEADERSHIP & TEAMWORK

Science Policy Coordinator | [Science Policy & Diplomacy Group](#), Baltimore, MD 01/2025 – Present
- Led advocacy with the Maryland General Assembly to strengthen oversight of state grant implementation.
- Organized science-policy career panels for 100+ graduate students.

PhD Representative & GRO Council Liaison | Johns Hopkins University 08/2022 – 08/2024
- Represented over 50 PhD students at the Graduate Representative Organization (GRO).
- Initiated and organized volunteer and social events to cultivate supportive departmental community.

Lead Teaching Assistant | Johns Hopkins University 03/2022 – Present
- Managed TA team of the course Introduction to Environmental and Occupational Health Law.
- Guided class discussions, proactively addressed inquiries, and graded essays with constructive feedback.

- Organized campus-wide fundraisers and raised over \$6000 for pediatric cancer research.
- Managed the operations of the philanthropy department of the Chinese Students and Scholars Association.

CERTIFICATIONS

Certificate of Risk Sciences and Public Policy | Johns Hopkins University

Developed expertise in risk assessment and science policy in the public health discipline.

Certificate of Food Systems and Public Health | Johns Hopkins University

Gained skills in policy analysis, communication, and advocacy to address issues around food insecurity.

Professional References

Dr. Paul A. Locke, Professor, Department of Environmental Health and Engineering, Johns Hopkins University

Email: plocke@jhu.edu | Phone: 410-502-2525

Dr. Megan Weil Latshaw, Associate Teaching Professor, Department of Environmental Health and Engineering, Johns Hopkins University

Email: mlatshaw@jhu.edu | Phone: 410-502-8948

Dr. Diana Zuckerman, President, National Center for Health Research

Email: dz@center4research.org | Phone: 301-652-0674