



MAYANK CHUGH, PhD

200 Longwood Avenue, Boston, MA 02115 | +1 617-283-0829 | mayank_chugh@hms.harvard.edu

EDUCATION

Max Planck Institute for Biology and Eberhard Karls University
PhD in Biology—magna cum laude thesis Tübingen, Germany
2014 - 2019

Indian Institute for Science Education and Research (IISER)
B.S.-M.S. Dual Degree—Award for Academic Excellence in Biology Mohali, India
2009 - 2014

RESEARCH INTERESTS AND FIELDS OF EXPERTISE

Cell, developmental, biophysical, and molecular biology; quantitative and qualitative methods; social dimensions of inequality; race and ethnicity; gender; citizenship/immigration; higher education; science, technology, and education policy; organizational behaviour and policy

RESEARCH EXPERIENCE AND ACADEMIC APPOINTMENTS

Harvard Medical School (HMS) Boston, US
Postdoctoral Research Fellow and Mentor 2020—

Eberhard Karls University Tübingen, Germany
Research Associate in Cellular Nanoscience 2019- 2020

Eberhard Karls University and Max Planck Institute for Biology Tübingen, Germany
International Max Planck Research Scholar in Cellular Nanoscience 2014- 2019

Indian Institute for Science Education and Research (IISER) Mohali, India
Master's Thesis; Cell and Developmental Genetics Lab 2013- 2014

Indian Institute of Technology (IIT), Harvard University, and MIT Resonance Fellow New Delhi, India
Resonance: Program in Neuroscience Summer Fellow 2013-2013

Indian Institute for Science (IISc) Bangaluru, India
Indian Academy of Sciences (IAS) Summer Fellow 2012-2012

SOCIAL JUSTICE EXPERIENCE AND PROFESSIONAL APPOINTMENTS

Journal of Emerging Investigators (JEI) Phoenix, US
Member, Board of Directors 2024—

eLife Sciences Publications, Ltd Cambridge, UK
Co-Chair, Early career Advisory Group—representing North America 2023—

Harvard Medical Postdoc Association, Harvard Medical School Boston, US
Chair 2021 - 2023

Systems Biology DEIB Task Force, Harvard Medical School Boston, US
Chair, Fair Recruitment of Postdocs and Faculty 2021 - 2023

Together We Science at Eberhard Karls University Tübingen, Germany
Co-Founder 2017- 2019

Max Planck Society Phdnet München, Germany
Editor—The Offspring Magazine 2016 - 2018

FELLOWSHIPS AND HONOURS

2024	Fellows-In Residence Program, Safra Center for Ethics, Harvard Kennedy School—Finalist
2023	Honoured Listee, Marquis Who's Who of America
2014-2019	International Max Planck Research School Fellowship
2015	Best Poster Presentation, Max Planck Annual PhD Retreat
2015	Communicating Your Science Fellow, Genetics Society, UK
2009-2014	KVPY, Department of Science and Technology Fellowship, Government of India
2014	Award for Academic Excellence in Biology, Class of 2014
2012-2014	4X Dean's List
2013	Summer Fellowship in Neuroscience, Resonance: MIT, Harvard, and IIT Delhi
2013	The Khorana Scholar Exchange Fellowship at University of Wisconsin-Madison—Declined
2012	Indian Academy of Sciences Summer Fellowship

PUBLICATIONS: JOURNAL AND REVIEWED RESEARCH ARTICLES

2024	Chugh, M.* , & Joseph. T. Citizenship privilege harms science. <i>Nature</i> , 628(8008), 499-501. *Corresponding author
2024	Singh, G., Teng, D., Turki, H., Bouchard, L. F., Chen, Y., Chugh, M.* , ... & Sharma, V. Changing outdated expectations. <i>Science</i> , 383(6678), 24-26.
2023	Yalcin, E., Martinez-Corral, R., & Chugh, M.* . Retaining postdocs by recognizing their worth. <i>Nature Biotechnology</i> , 41(2), 296-298.
2023	Chugh, M.* Calling for institutional reform by compensating early career researchers for diversity labor. <i>Trends in Microbiology</i> , Cell Press 31(4), 332-335.
2023	Chugh, M.* Visas: speed up processing to boost inclusivity. <i>Nature</i> , 615(7950), 34-34.
2023	da Silva, C. F. A., Virgúez, E., Eker, S., Zdenek, C. N., Bergh, C., Gerarduzzi, C., ... & Chugh, M.* The future of scientific societies. <i>Science</i> , 380(6640), 30-32.
2022	Chugh, M.* , Munjal, A., & Megason, S. G. Hydrostatic pressure as a driver of cell and tissue morphogenesis. In <i>Seminars in cell & developmental biology</i> , 131, 134-145.
2020	Bugiel, M., Chugh, M. , Jachowski, T. J., Schäffer, E., & Jannasch, A. The kinesin-8 Kip3 depolymerizes microtubules with a collective force-dependent mechanism. <i>Biophysical Journal</i> , 118(8), 1958-1967.
2018	Chugh, M. , Reißner, M., Bugiel, M., Lipka, E., Herrmann, A., Roy, B., ... & Schäffer, E. (2018). Phragmoplast orienting kinesin 2 is a weak motor switching between processive and diffusive modes. <i>Biophysical Journal</i> , 115(2), 375-385.
2017	Schellhaus, A. K., Moreno-Andrés, D., Chugh, M. , Yokoyama, H., Moschopoulou, A., De, S., ... & Antonin, W. Developmentally Regulated GTP binding protein 1 (DRG1) controls microtubule dynamics. <i>Scientific Reports</i> , 7(1), 9996.
2017	Livanos, P., Chugh, M. , & Müller, S. Analysis of phragmoplast kinetics during plant cytokinesis. <i>Plant protein secretion: methods and protocols</i> , 137-150.
2016	Dey, N. S., Ramesh, P., Chugh, M. , Mandal, S., & Mandal, L. Dpp dependent Hematopoietic stem cells give rise to Hh dependent blood progenitors in larval lymph gland of <i>Drosophila</i> . <i>eLife</i> , 5, e18295.

PUBLICATIONS: OP-EDS AND OTHER ARTICLES

2023	Chugh, M. & Polka, J. Congress could stop free public access to government-funded research. <i>STAT First Opinion</i> .
2023	Chugh, M. & Skowyra, M. Response to NIH RFI on Re-envisioning US Postdoctoral Research. <i>HMPA</i> .
2023	Chugh, M. Science is more than sum of research. <i>The node - The company of Biologists</i> . Commissioned for new series: Honest Conversations.
2020	Chugh, M. Back to bench is resetting my mental clock. <i>The node - The company of Biologists</i> . The most-read article of the year and translated in Chinese to reach Chinese audiences via social media.

- 2019 Chugh, M., & Hermsdorf, G. Homemade low-frequency vibration isolation system matches or exceeds commercial options. *Laser Focus World*, 55(10).
- 2018 Hmadi, R., Jeschke, A., Chugh, M., Ilangoan, V. Hacking genomes using CRISPR. *The Offspring Magazine*, 20-21.
- 2017 Chugh, M. In conversation with Prof. Marja Timmermans. *The Offspring Magazine*, 5-6.
- 2017 Chugh, M. A journey decoded. *The Offspring Magazine*, 12-13.
- 2014 Chugh, M. Resonance: bringing together disciplines. *Current Science*, 106(5), 655-657

PUBLICATIONS: IN-PROGRESS

- 2024 Cheruiyot, A. & **Chugh, M***. *Institutional Associations as Levers of Structural Change: Lessons from Harvard Medical Postdoctoral Associations*. To be published as a chapter in the book entitled 'Understanding Membership Diversity and Supporting Equitable STEM Communities: Scientific Societies and Professional Organizations Case Studies', edited by Candice Etson, Taylor Lightner, and Robin Greenler. Rowman & Littlefield Publishers.
- 2024 Espada, R., Nofal, M., Ganguly, P. & **Chugh, M***. Cost, Health, and Productivity Analysis of Visa-Holding Global South Scholars in the US. In preparation for *International Migration Review*.

SELECTED MEDIA

- 2024 NIH postdocs will get a raise next year—but not as much as they hoped, [STAT News](#).
- 2024 Social Inequality in STEM, Harvard Catalyst podcast, [Think Research](#).
- 2023 NIH panel calls for fewer, better-paid postdocs in bid to halt loss of scientists to industry, [STAT News](#).
- 2023 Academia's postdoc system is teetering, imperiling efforts to diversify life sciences, [STAT News](#).
- 2023 To diversify the scientific workforce, postdoc recruitment needs a rethink, [Nature](#).
- 2023 Putting a value on postdocs, [The George Washington Today](#).
- 2023 Harvard postdocs call for an increased pay in open letter to University, [The Harvard Crimson](#).
- 2023 Early Career Researcher Special Episode, [Preprints in Motion, Podcast](#).
- 2023 Academic workers rally for union recognition, [Harvard Magazine](#).
- 2019 That's my science, [Tübingen Research Campus](#).
- 2017 Fruit fly reveals how stem cells form blood cells, [Nature](#).

INVITED TALKS AND DISCOURSES

- 2024 Invited Panel Speaker on Community and Science at *Gordon Conference* on Acoustic Systems, Bryant University.
- 2024 Invited Speaker, *Columbia University*. Talk: Data-Driven Change: Tackling Knowledge Divides for Early Career Researchers.
- 2023 Invited Speaker, *Yale University*. Talk: Equity, Opportunity, and Support for Early Career Researchers.
- 2023 Invited Speaker, *Einstein Foundation and Berlin Institute of Health Unconference*. Talk: A Break in the Inclusive Excellence Continuum.
- 2023 Keynote Speaker, *The George Washington University*. Talk: Equity, Opportunity, and Support for Early Career Researchers.
- 2023 Listening Session Speaker, *National Institute of Health (NIH)*. Talk: Open Access Science for Marginalised Scholars and Researchers.
- 2023 Listening Session Speaker, *The Office of Science Policy and Technology (OSTP), The US White House*. Talk: Open Access Science for Marginalised Scholars and Researchers.
- 2023 Selected Speaker, *National Postdoctoral Association Annual Meeting*, Philadelphia. Talk: Reforming Compensation and Retaining Postdocs By Recognising Their Worth.
- 2023 Invited Speaker, *Boston Postdoctoral Association Seminar Series*, Boston. Talk: Reforming Compensation and Retaining Postdocs By Recognising Their Worth
- 2022 Poster presentation, *American Society for Cell Biology (ASCB) and European Molecular Biology Organisation (EMBO) Meeting*, Washington, D.C. Title: Mechanistic Basis of Transepithelial Water Transport.
- 2022 Invited Moderator, *Harvard Medical School*, Boston. Event: Picture our scientists: Celebrating women's journeys and discoveries from the bench to bedside.
- 2019 Invited Speaker, *Institute Curie, Paris*. Talk: Orienting new cell walls in Arabidopsis thaliana with kinesin-12 members, POK1 and POK2.
- 2019 Invited Speaker, *Harvard University*. Talk: Orienting new cell walls in Arabidopsis thaliana with kinesin-12 members, POK1 and POK2.
- 2017 Speaker, *European Plant Cytoskeleton Club Meeting*, Kalsruhe. Talk: Aligning New Cell Walls in Plants.
- 2016 Invited Speaker, *European Plant Cytoskeleton Club Meeting*, Prague. Talk: POK2 is a Plus-End Directed Weak Molecular Motor.
- 2014 Invited speaker, *Max Planck Institute for Biology*, Tübingen. Talk: Biological Interests Spanning Scales.

TEACHING AND MENTORING

- 2023 Mentor, Systems Biology Summer Intern Program, Harvard Medical School (now graduate student at Caltech)
- 2019 Guest Lecturer, Molecular Biophysics, Master's Program, Eberhard Karls University
- 2019 Mentor, Master Thesis, Eberhard Karls University (now physics graduate student at Eberhard Karls University)
- 2018 Mentor, Master Thesis, Eberhard Karls University (now biology graduate student at Eberhard Karls University)
- 2017 Mentor, Master Internship, Eberhard Karls University (now graduate student at ETH Zürich)
- 2017 Mentor, Bachelor Thesis, Biophysics Program, Eberhard Karls University
- 2016 Mentor, Bachelor Thesis, Cellular Nanoscience Program, Eberhard Karls University

PROFESSIONAL AFFILIATIONS

World Economic Forum
American Society for Cell Biology
Society for Developmental Biology
National Postdoctoral Association
Boston Postdoctoral Association
ASAPbio

CERTIFICATIONS

- 2022 Mini-MBA, Harvard Griffin School of Arts and Sciences Biotech Club (in co-op with Harvard Business School)
- 2022 Anatomy of Innovation: The Biodesign Process, Harvard Medical School

COMMUNITY SERVICE: AD-HOC RESEARCH REVIEW

- 2018-- Frontiers in Cell and Developmental Biology, bioRxiv, Nature communications, and Science Advances
- 2022 Judge, Massachusetts Region V Science and Engineering Fair
- 2021-23 Teacher, Calculus Project—Minority Student Increment Initiative, Harvard Medical School
- 2022 Pilot, Anti-Racism Course for Postdocs, Harvard Medical School
- 2019 Examiner, Cellular Nanoscience Bachelor Program Final viva, Eberhard Karls University

COMMUNITY SERVICE: OTHERS

- 2021-22 Member, Departmental Systems Seminar Organization Committee, Harvard Medical School
- 2016-19 Laboratory Waste Disposal Manager, Department of Cellular Nanoscience, Eberhard Karls University
- 2015-16 Organiser, Annual Max Planck Tübingen PhD Retreat, held at Meersburg, Germany
- 2011-16 Member, Teacher, and Fundraiser, Youth's Attempt To Nurture, IISER Mohali
- 2014 Creative organizer, Insomnia-Annual Cultural Fest, IISER Mohali
- 2012 Biology organizer, Science Day Celebrations, IISER Mohali
- 2012-13 President, Environment Club, IISER Mohali
- 2011-12 Vice-President, Environment Club, IISER Mohali

SELECTED POETRY

- 2024 Behind Our Science podcast, Poetry Month Episode
- 2023 Open Reading, Boston Free Radio, Somerville, MA
- 2022 When we were young, *Frontier Poetry*
Also selected under Boston Mayor's Poetry Program 2023 and currently exhibited at the Boston City Hall
- 2022 Their guide to colourful sleep in America, *The Lumiere Review (Justice Issue)*
- 2022 Rembrandt's Seascape, *Narrative Northeast*
- 2021 Cat in the Church
Winner of the 'Through These Realities' New England Poetry Contest 2021
Poem exhibited as an art installation of Through These Realities at Arts at the Armory, Somerville, MA, May-July 2022
Poem exhibited as an art installation of Through These Realities at the Somerville Media Center, MA, May-June 2023