

CURRICULUM VITAE

-PRIYANKA DESOUZA

Address: Department of Urban and Regional Planning, UC Denver

Email: priyanka.desouza@ucdenver.edu • *Phone:* +1-6099203465

EDUCATION

2021	PhD in Urban Planning	Massachusetts Institute of Technology (Presidential Scholar)
2015	MBA	University of Oxford (Rhodes Scholar)
2014	MSc. Environmental Change and Management	University of Oxford (Rhodes Scholar)
2013	B-tech/M-tech Energy Engineering (minor: Physics)	Indian Institute of Technology Bombay

SELECT WORK EXPERIENCE

2022-	Faculty Affiliate	CU Population Center, University of Colorado Boulder
2021-	Assistant Professor	University of Colorado Denver, Department of Urban and Regional Planning
2021	Consultant	World Health Organization
2017	Researcher	NASA Goddard Space Flight Center
2016-2021	Research Fellow	MIT Senseable City Lab
2015-2017	Research Fellow	Project Drawdown
2015-2016	Consultant	UN Environment
2014-2015	Grant Review Officer	Rhodes Scholars South African Forum

SELECT GRANTS AND HONORS

2023	2B Technologies (\$20,000)
2023	Bill and Melinda Gates Foundation (\$28,000)
2022	NCAR Early Career Award (shortlisted)
2022	Co-PI on NASA Environmental Justice grant (\$60,000)
2022	TIAA Urban Engaged Scholar Award (\$4,000)
2022	CU Denver Publication Grant (\$500)
2021	Main PI CU Denver Presidential Initiative Grant (\$20,000)
2020	Bill Mitchell++ Fund and Emerson Student Research Award
2019	Co-Investigator on the 2019 NIEHS Harvard Center Pilot Grant
2018	Nadine and Lloyd Rodwin Travel Grant
2018	Santander Mobility Award for Summer 2018
2018	MIT Environment Solutions Initiative grant for Summer 2018
2017	MIT MISTI Africa Travel Award

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- 2017 MIT Presidential Fellowship
- 2016 Project Drawdown Fellowship
- 2015 Magdalen College, University of Oxford Travel award
- 2015 Skoll Apprentice with a Problem grant
- 2014 Salzburg Global Seminar Fellow
- 2013 Sir Peter Elworthy Grant
- 2013 Rhodes Scholarship
- 2013 Department Rank 2, Department of Energy Science and Engineering, Indian Institute of Technology Bombay
- 2008 Gold medal for being in the top 35 candidates at the Indian National Physics Olympiad
-

PUBLICATIONS

** : student; * : contributed equally

PREPRINTS

48. Emilia Oscilowicz**, Guadalupe Solis, Laura Martinez, Jeremy Nemeth, Gregory Simon, Carrie Makarewicz, Katherine Dickinson, Lisa McKenzie, Jean Scandlyn, Priyanka deSouza, 'The Role of Citizen Science in Addressing Policy Change: A Critical Review of Air Pollution Literature', *arxiv*, under review at *Current Environmental Health Reports*

47. Priyanka deSouza, Grace Hood**, 'An Analysis of Colorado State Implementation Plans for Surface-Ozone', *osf*, under review at the *Journal of Air and Waste Association*

46. Priyanka deSouza, Amanda Shea, Virginia, Claire Gorman, Meghan Timmons, Fabio Duarte, Patricia, Danielle Braun, Mary Sammel, Carlo Ratti, Rachel Nethery, 'The effect of PM_{2.5} on menstrual health: A big data approach', *SSRN (revise and resubmit Lancet Planetary Health)*

45. Priyanka deSouza, Amanda Rees**, Emilia Oscilowicz**, Brendan Lawlor, William Obermann, Katherine Dickinson, Lisa M. McKenzie, Sheryl Magzamen, Shelly Miller, Michelle L. Bell, 'Evaluating the Environmental Justice Dimensions of Odor in Denver, Colorado.' <https://arxiv.org/abs/2402.03336> (revise and resubmit at the *Journal of Exposure Science & Environmental Epidemiology*)

44. Priyanka deSouza, Jenny Lee, Jeremy Nemeth, Sunil Mani, Abhishek Jain, Abhishek Kar, Ajay Pilarisetti, Wenlu Ye, Jennifer Peel, Sadeer Al-Kindi, Patrick Kinney, Rockli Kim, SV Subramanian, Michelle Bell, Eric Simoes 'The impact of India's clean energy transition on cardiovascular disease risk factors in India', *SSRN (revise and resubmit at Lancet Planetary Health)*

2024

43. Priyanka deSouza, Susan Anenberg, Neal Fann, Lisa McKenzie, Elizabeth Chan, Ananya Roy, Jose Jimenez, William Raich, Henry Roman, Patrick Kinney, 'Evaluating the Sensitivity of Pollution-Attributable Mortality to Modeling Choices: A Case Study for Colorado', *Environment International*, 2024

42. Salil V Deo, Yakov Elgudin, Issam Motairek, Fredrick Ho, Robert D Brook, Dennis Ko, Jason Su, Stephen Fremes, Priyanka deSouza, Omar Hahad, Sanjay Rajagopalan, Sadeer Al-Kindi, 'Air Pollution and Adverse Cardiovascular Events after Coronary Artery Bypass Grafting: A 10-Year Nationwide Study', 2024, *Journal of the American College of Cardiology Advances*

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2023

41. [Priyanka deSouza](#), Susan Anenberg, Carrie Makariewicz, Manish Shirgaokar, Fabio Duarte, Carlo Ratti, John Durant*, Patrick Kinney*, Deb Niemeier*, ‘Quantifying population exposure to air pollution using home and work addresses’, 2023, *Environmental Science & Technology*
40. [Priyanka deSouza](#), Ekta Chaudhury, Sagnik Dey, Soohyeon Ko, Jeremy Nemeth, Sarath Guttikunda, Sourangsu Chowdhury, Patrick Kinney, SV Subramanian, Michelle Bell, Rockli Kim, ‘Air Pollution in India: An Environmental Justice Analysis’, 2023, *Scientific Reports*
Covered in AGU’s EOS: <https://eos.org/articles/indias-disadvantaged-groups-face-more-air-pollution>
39. [Priyanka deSouza](#), An Wang, Yuki Machida, Simone Mora, Tiffany Duhl, Prashant Kumar, Ralph Kahn, Carlo Ratti, John Durant, Neelakshi Hudda, ‘Development of a Performance Evaluation Protocol for Low-Cost PM_{2.5} Sensors in a Mobile Setting’, 2023, *Environmental Science and Technology*
38. [Priyanka deSouza](#), Karoline Barkjohn, Andrea Clements, Jenny Lee, Ralph Kahn, Ben Crawford, Patrick Kinney ‘An analysis of degradation in low-cost particulate matter sensors’, 2023, *Environmental Science: Atmospheres (image featured on the cover)*
37. Tabitha Lobo, Gabriel Barreto-D’Silva, Issam Motairek, Sarju Ganatra, Sourbha Dani, [Priyanka deSouza](#), Khurram Nasir, Yakov Elgudin, Sanjay Rajagopalan, Sadeer Al-Kindi, Salil Deo, ‘Changes in cardiovascular burden attributable to air pollution in South Asia over the past 30 years: Evidence from the Global Burden of Disease’, 2023 *American Journal of Preventive Cardiology*
36. Simone Mora, [Priyanka deSouza](#), Fábio Duarte, Sanjana Paul, An Wang, and Carlo Ratti, ‘Air Quality Monitoring in Coal-Centric Cities’, 2023, *Sustainability*
35. An Wang, Simone Mora, Yuki Machida, [Priyanka deSouza](#), Sanjana Paul, Oluwatobi Oyinlola, Fábio Duarte, and Carlo Ratti, ‘Hyperlocal environmental data with a mobile sensing platform’, 2023, *Scientific Data*
34. Alessandro Rigolon, Jeremy Németh, Brenn Anderson-Gregson, Ana Rae Miller, [Priyanka deSouza](#), Brian Montague, Cory Hussain, Kristine Erlandson, Sarah Rowan, ‘The neighborhood built environment and COVID-19 hospitalizations’, 2023, *PLOS ONE*
33. An Wang*, Sanjana Paul*, [Priyanka deSouza](#), Yuki Machida, Simone Mora, Fabio Duarte, Carlo Ratti, ‘Key Themes, Trends, and Drivers of Mobile Air Quality Monitoring: A Systematic Review and Meta-Analysis’, 2023, *Environmental Science and Technology*
32. Ye Tian, An Wang, Simone Mora, [Priyanka deSouza](#), Xiaobai Yao, Fabio Duarte, Hui Lin, Carlo Ratti, ‘Incorporating tree diversity for a better understanding of urban form - air quality relationships through mobile monitoring’, 2023, *Applied Geography*
31. Kevin Josey, Scott Delaney, Xiao Wu, Rachel Nethery, [Priyanka deSouza](#), Danielle Braun, Francesca Dominici, ‘Health benefits of the proposed air pollution rule in marginalized groups’ 2023, *New England Journal of Medicine*
Covered in the [NYtimes](#) and [CNN](#) among others
30. An Wang, Yuki Machida, [Priyanka deSouza](#), Simone Mora, Tiffany Duhl, Neelakshi Hudda, John Durant, Fabio Duarte, Carlo Ratti, ‘Leveraging Machine Learning Algorithms to Advance Low-Cost Air Sensor Calibrations in Stationary and Mobile Settings’, 2023, *Atmospheric Environment*
Covered in [MIT News](#)
29. Jing Li, James Crooks, Jennifer Murdock, [Priyanka deSouza](#), Kirk Hohsfield, William Obermann, Tehya Stockman, ‘A Nested Machine Learning Approach to Short-Term PM_{2.5} Prediction in Metropolitan Areas Using PM_{2.5} Data from Different Sensor Networks’, 2023, *Science of the Total Environment*
28. Ellen Considine**, Jiayuan Hao, [Priyanka deSouza](#), Danielle Braun, Colleen Reid, Rachel Nethery, ‘Evaluation of Model-Based PM_{2.5} Estimates for Exposure Assessment During Wildfire Smoke Episodes in the Western U.S.’, 2023, *Environmental Science & Technology*

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27. Ellen Considine**, Danielle Braun, Leila Kamareddine, Rachel Nethery*, Priyanka deSouza*, ‘Investigating the Use of Low-Cost Sensors to Increase Accuracy and Equity of Real-Time Air Quality Information’, 2023, *Environmental Science and Technology*
2022
26. Priyanka deSouza, Melanie Hammer, Patrick Kinney, Peter Anthamatten, Rockli Kim, S.V Subramanian, Michelle L Bell, Kevin Mwenda, ‘The Impact of Air Pollution on Stunting among Children in Africa’, 2022, *Environmental Health*
25. Priyanka deSouza, Ralph Kahn, Tehya Stockman, William Obermann, Ben Crawford, An Wang, James Crooks, Jing Li, Patrick Kinney, ‘Calibrating Networks of Low-Cost Air Quality Sensors’, 2022, *Atmospheric Measurement Techniques*
24. Priyanka deSouza, Antonio Boing, Rockli Kim, S.V Subramanian, ‘Associations between ambient PM_{2.5} components and age-specific mortality risk in the United States’, 2022, *Environmental Advances*
23. Priyanka deSouza, Sudheer Ballare, Deb Niemeier, ‘The environmental and traffic impacts of warehouses in southern California’, 2022, *Journal of Transport Geography*
22. Priyanka deSouza, ‘The Political Economy of Air Pollution in Kenya’, 2022 *Urban Forum*
21. Priyanka deSouza, ‘Key concerns and drivers of low-cost air quality sensor use’, 2022 *Sustainability* 14(1), p.584.
20. Priyanka deSouza, Sagnik Dey, Kevin Mwenda, Rockli Kim, S.V Subramanian, Patrick Kinney, ‘Robust relationship between ambient air pollution and infant mortality in India’, 2022 *Science of the Total Environment* p.152755. <https://doi.org/10.1016/j.scitotenv.2021.152755>
Covered in the [Times of India](#) and [Nature News](#)
19. Kevin Josey, Priyanka deSouza, Xiao Wu, Danielle Braun, Rachel Nethery, ‘Estimating a Causal Exposure Response Function with a Continuous Error-Prone Exposure: A Study of Fine Particulate Matter and All-Cause Mortality’, 2022 *Journal of Agricultural, Biological, and Environmental Statistics*
18. Antonio Fernando Boing, Priyanka deSouza, Alexandra Crispim Boing, Rockli Kim, S.V. Subramanian, ‘Air pollution, socioeconomic status, and age-specific mortality risk in the US’, 2022 *JAMA Network Open*
17. Weiyu Wang, Jeffrey Blossom, Julie Kim, Priyanka deSouza, Weixing Zhang, Rockli Kim, Rakesh Sarwal, S.V. Subramanian. COVID-19 Metrics across Parliamentary Constituencies & Districts in India. <https://doi.org/10.1080/19475683.2022.2044903> 2022 *Annals of GIS*
16. Ye Tian, Priyanka deSouza, Simone Mora, Xiaobai Yao, Fabio Duarte, Leslie K Northford, Hui Lin, Carlo Ratti, ‘Evaluating the meteorological effects on the urban form-air quality relationship using mobile monitoring’, 2022 *Environmental Science and Technology*
2021
15. Priyanka deSouza, Phoebe Atsieno Oriama, Peter Pederson, Sebastian Horstmann, Lorena Gordillo-Dagallier, Charles N Christensen, Christoph Franck, Richard Ayman, Jacqueline Klopp, Ralph Kahn, Kyle Messier, Patrick Kinney, ‘The Neighbourhood-Specific impact of a COVID-19 curfew on fine particulate matter levels in Nairobi: Implications for Environmental Justice’, 2021 *Environmental Research Communications*
14. Priyanka deSouza, Patrick Kinney, ‘On the Distribution of Low-Cost PM sensors in the US: Demographic and Air Quality Associations’, 2021, *Journal of Exposure Science and Environmental Epidemiology*, pp.1-11
13. Priyanka deSouza, Ruiqing Lu, Patrick Kinney, Siqi Zheng, ‘Air pollution in different transport modes in Zhengzhou’, 2021 *Atmospheric Environment*
12. Priyanka deSouza, Danielle Braun, Robbie M Parks, Joel Schwartz, Francesca Dominici, Marianthi-Anna Kioumourtoglou, ‘Nationwide Study of Short-Term Exposure to Fine Particulate Matter and Cardiovascular Hospitalizations among Medicaid Enrollees’, 2021 *Epidemiology*
11. Shin Bin Tan, Priyanka deSouza, Matthew Raifman, ‘Race, structural racism and COVID-19’, 2021 *Journal of Racial and Ethnic Health Disparities*

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2020

10. Priyanka deSouza, Ralph Kahn, James Limbarcher, Eloise Marais, Fabio Duarte, Carlo Ratti, 'Combining low-cost, surface-based aerosol monitors with size-resolved satellite data for air quality applications', *Atmos. Meas. Tech* (2020)., <https://doi.org/10.5194/amt-2020-136>
9. Priyanka deSouza, Amin Anjomshoaa, Fabio Duarte, Prashant Kumar, Ralph Kahn, Carlo Ratti, 'Air Quality Monitoring Case Study Using Mobile Low-cost Sensors mounted on Trash-Trucks: Methods Development and Lessons Learned', *Sustainable Cities and Society*. 2020 May 18:102239.
8. Priyanka deSouza, 'Air pollution in Kenya: a review', *Air Qual Atmos Health* (2020).
<https://doi.org/10.1007/s11869-020-00902-x>
7. Priyanka deSouza, S V Subramanian, 'COVID-19 Across United States Congressional Districts', *J. Glob. Health Sci.* 2. <https://doi.org/10.35500/jghs.2020.2.e22>
6. Fabio Duarte and Priyanka deSouza, 'Data Science and Cities: a critical approach', *invited paper (peer-reviewed)*, *Harvard Data Science Review*. <https://doi.org/10.1162/99608f92.b3fc5cc8>

2018 and earlier

5. Amin Anjomshoaa, Fábio Duarte, Daniël Rennings, Thomas Matarazzo, Priyanka deSouza, Carlo Ratti, 'City Scanner: Building and Scheduling a Mobile Sensing Platform for Smart City Services', *IEEE Internet of Things Journal*, 2018
4. Priyanka deSouza, Victor Nthusi, Jacqueline Klopp, Wah On Ho, John Saffell, Roderic Jones, Carlo Ratti, 'A Nairobi Experiment in using low-cost air quality monitors' *Clean Air Journal*, 2017, v12, i 2, pp 12-42
3. Priyanka deSouza and Yadvinder Malhi, "Land Use Change in India (1700–2000) as Examined through the Lens of Human Appropriation of Net Primary Productivity." *Journal of Industrial Ecology*, 2017
2. Priyanka deSouza and Vijay Singh, 'Simple Model of the 100 meter dash', *Resonance* Volume 17, Number 6 (2012).
Covered in Hindustan Times on May 27, 2012. Headline: 'Research shows Bolt can break the 9.5 sec barrier'

CONFERENCE PROCEEDINGS (REFEREED PAPER)

1. Priyanka deSouza, K.R Balasubramanian, Rangan Banerjee 'Setting Targets for Photoelectrochemical Cells,' *IVth International Conference on Advances in Energy Research proceedings*, IIT Bombay 10th-12th December, 2013

UNDER REVIEW

1. Priyanka deSouza, Peter Ibsen, Dan Westervelt, Ralph Kahn, Benjamin Zaitchik, Patrick Kinney, 'Comparison of temperature data from PurpleAir sensors with that from a widely used satellite-derived product and Evaluation of Degradation' (*submitted to AGU GeoHealth*)

IN PREPARATION

1. Zoe Haskell-Craig**, Kevin Josey, Patrick Kinney, Priyanka deSouza 'Disparities in the siting of regulatory monitorings in the United States'
2. Elizabeth Dzwonczyk**, Peter Ibsen, Peter Anthammer, Aditi Misra, Manish Shirgaokar, Adam Lipper, Priyanka deSouza, 'A Spatiotemporal Analysis of the impact of the Zero Fare For Better Air Policy on bus ridership in Metro Denver'
3. Evan Bagkiss, Amirhossein Hassani, Ajit Ahlawat, Priyanka deSouza, Philipp Schneider, Nuria Castell, Kostas Karatzas, Jibrán Khan, 'Emerging trends in the applications of low-cost air quality sensors'

BOOK CHAPTERS AND REPORTS

CURRICULUM VITAE

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8. Contributing author to the World Meteorological Organization (WMO)'s report on low-cost air quality sensors, 2023
7. Mudu, P., Adair-Rohani, H., deSouza, P., Gumy, S., de Sá, T.H., Lewis, J., Mwaura, A., Shairsingh, K., Vert, C., Williams, K. and Smit, W., 2023. Tracking urban health policies: a conceptual framework with special focus on air pollution in African cities. World Health Organization 2023
6. Kumar, P., Abbass, R.A., Abulude, F.O., Adelodun, A.A., Aghamohammadi, N., Andrade, M.F., Asfaw, A., Aziz, K.H., Castañeda, D.M.A., Cao, S.J., deSouza, P., El-Gendy, A., Gurjar, B.R., Fankam, B.T., Hama, S., Jain, S., Kakosimos, K.E., Khan, A.A., Khare, M., Khaiwal, R., Kota, S., Larrahondo, J.S., McNabola, A., Mor, S., Morawska, L., Muula, A.S., Nardocci, A.C., Ngowi, A.V., Nogueira, T., Olaya, Y., Omer, K., Osano, P., Pant, P., Parikh, P., Rojas, N., Salam, A., Shiva Nagendra, SM., Wu, H.W., 2022. Mitigating Exposure to Cooking Emissions in Kitchens of Low-Middle Income Countries Homes - Guidance for Home Occupants, Owners, Builders & Local Councils.
5. Patrick Kinney, Priyanka deSouza, 'Community Design and Air Quality', in *Making Healthy Places: Designing and Building for Health, Well-Being, and Sustainability*, in preparation for Island Press 2022
4. Priyanka deSouza, Jason Jackson, 'Data, Computation and Racial Capitalism: Labor and Environmental Governance', *Systemic Racism and Computation*, 2021
3. Janelle Knox-Hayes, Jungwoo Chun, Priyanka deSouza, 'Sustainable Finance', *Routledge Handbook of Financial Geography* 2020
2. Grace Mwaura, Louise Fitzgerald, Priyanka deSouza, 'Introduction: Environmental and Sustainability Clubs' in *Encyclopedia of Sustainability in Higher Education*, 2019
1. Contributing Author for *Drawdown: The Most Comprehensive Plan Ever Proposed to Reverse Global Warming*, edited by Paul Hawken, published by Penguin, 2017

BOOK REVIEWS

6. Priyanka deSouza, 'Book Review: 'Cities, Climate Change, and Public Health: Building Human Resilience to Climate Change at the Local Level by Ella Kim', Anthem EnviroExperts 2022
' <http://anthemenviroexperts.com/environment-and-sustainability/2022>
5. Priyanka deSouza, 'Book Review: Asthma Care in a Time of Climate Change by Alison Kenner', LSE Book Review, 2020
4. Priyanka deSouza, 'Book Review: Political Blackness in Multicultural Britain by Mohan Ambikaipaker', LSE Book Review, 2019
3. Priyanka deSouza, 'Book Review: Digital Democracy, Analogue Politics: How the Internet Era is Transforming Kenya by Nanjala Nyabola', LSE Book Review, 2018
2. Priyanka deSouza, 'Book Review: The Shale Dilemma: A Global Perspective on Fracking and Shale Development', AnthemEnviroExperts, 2018
1. Priyanka deSouza, 'Book Review: Rhodes Must Fall: The Struggle to Decolonise the Racist Heart of Empire by Rhodes Must Fall Oxford, edited by Roseanne Chantiluke, Brian Kwoba and Athinagamso Nkopo', LSE Book Review, 2018

NEWSPAPER ARTICLES

4. Priyanka deSouza and Patrick Kinney, 'Don't Breathe the Air', Urban Resilience Project <https://urbanresilience.medium.com/dont-breathe-the-air-e6e57bb2bc0c>, 2023
3. Priyanka deSouza, 'Nairobi's air has been polluted for decades: new review suggests a path forward', The Conversation, 2020
2. Priyanka deSouza and Alexander Ikawah, 'This Too Is Kenya: How the deCOALONIZE Campaign Challenged a Politicised Bureaucracy and Legal System'. The Elephant, 2019
1. Priyanka deSouza, 'Every Breath You Take: Who is Monitoring Air Quality in Kenya', The Elephant, 2018

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PODCASTS

[‘Decolonizing Science’](#) series on MIT CoLab Radio

FEATURES IN THE PRESS

[AGU EOS](#), [Rocky Mountain PBS](#), [9News Denver](#), [Phys.org](#), [Boston Globe](#), [WGBH](#), [GOETHE INSTITUTE, KENYA](#)

INVITED TALKS

- Invited Talk at the California Air Resources Board on Dec 11, 2023
- Invited Talk at Western States Air Quality Council conference on October 4, 2023
- Invited Talk NASA GSFC on Sep 11, 2023
- Invited Talk at Denver’s Office of Alternate Defense Counsel’s conference on August 29, 2023
- Invited discussant for climate just panel at the University of Toronto's School of Cities Symposium on Climate Justice and Cities on May 24, 2023
- Invited talk at the Maryland Department of the Environment on April 27, 2023
- Invited talk for the Environmental Engineering program at UC Berkeley on April 14, 2023
- Invited talk by the International Society of Indoor Air Quality and Climate (ISIAQ) on ‘Careers in Academia’ on March 30, 2023
- Invited talk at NASA GSFC on Feb 24, 2023
- Invited talk at the Department of Chemistry and Biochemistry at Wilfrid Laurier University’s seminar series Jan 27, 2023
- Invited panelist for a discussion on low-cost air quality sensors at the Colorado Consortium for Climate Change and Health, Jan 18, 2023
- Invited talk for the RESPIRA seminar series organized by KU Leuven on Dec 16, 2022
- Invited panelist at the ASHES webinar series organized by Colorado State University and Berkeley Air on Dec 7, 2022
- Invited talk at the Climate & Health Seminar at the Columbia Mailman School of Public Health on November 2, 2022
- Invited talk at the Atmospheric & Environmental Chemistry and Society Seminar at Harvard on September 29, 2022
- Invited talk on ‘Taking Earth’s Pulse with Low-Cost Sensors’ organized by Environmental Science & Technology and the American Chemical Society’s Sensors journals on May 5, 2022
- Invited talk on ‘How does Global Inequality Impact Climate Solutions?’ organized by Oxford University Grand Challenges seminar on May 3, 2022
- Invited talk at the Anenberg Group at George Washington University on Feb 2, 2022
- Invited talk at US EPA’s Internal Air Sensors Webinar, 2021
- Invited panelist at Columbia Global Centers | Nairobi’s ‘Healthy Cities!’ webinar series on ‘Air Pollution in Nairobi and other African Megacities: Sources, Sampling and Solutions’, Feb 23 2021
- Invited panelist at the American Geophysical Union’s 2021 meeting at, ‘Air Quality Information in Developing Countries’
- Invited talk at the A System Approach to Air Pollution (ASAP) New Delhi, 2019 and Kampala , 2020 (postponed) workshops

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- Invited facilitator for the discussion on ‘Decolonizing Air Pollution Science: Understanding the Power Structure’ organized by OpenAQ at the 2020 International Society for Exposure Science Meeting.
- Invited talk at the workshop ‘Filling in the Gaps’ organized by the World Bank in July, 2017
- Invited talk on ‘Low cost air quality monitors’ at the NASA Goddard Space Flight Center, 2017
- Invited talk at the World Bank Transport Impact Evaluation Workshop in Nairobi, 2016
- Invited talk at the Ethiopia air quality project workshop, Addis 18-19 March, 2016
- Invited talk on the ‘Hydrocarbon Sector’ at the Annual Maritime Seminar, Feb 21st-22nd, 2013
- Invited Talk on ‘Sustainability: A Thermodynamic View Point’ at the “Indo-U.S Women Engineers Leading Global Innovation”, Aug 29th-31st, 2012

CONFERENCE PRESENTATIONS

- Funded participant at the ASCENT workshop at Georgia Tech on May 25-26, 2023
- Priyanka deSouza, ‘Who Counts Air Quality and Whose Air Quality Counts?’, accepted for the *Air Sensors International Conference*, 2020 (postponed)
- Priyanka deSouza, ‘Assessing the short-term effect of PM_{2.5} on Cardiovascular Hospitalizations in the Medicaid Population: A Case-Crossover Study’ at the *Health Effects Institute (HEI) Annual 2019* and *International Society of Environmental Epidemiology (ISEE) 2019*
- Priyanka deSouza, ‘Localizing Air pollution Science’, *Society for the Social Studies of Science (4S) 2019*
- Priyanka deSouza, ‘Mobile air quality monitoring using data from low-cost monitors on trashtrucks’, *Air Sensors International Conference*, 2018
- Priyanka deSouza, ‘Integrating data from low-cost air quality monitors with satellite data’, *NASA Health and Air Quality Applied Sciences Team HAQAST*, July, 2018
- Priyanka deSouza, Fabio Duarte, Carlo Ratti ‘Examining the intra-urban variability of air pollution in Nairobi using satellite data and low cost monitors’ at the *American Association of Geographers* meeting 2017 meeting Boston
- Priyanka deSouza, Bhaskaran Muralidharan, ‘Power-efficiency trade-off in molecular thermoelectric energy conversion’ at the *American Physical Society* March 2013

TEACHING

INSTRUCTOR

- Instructor for ‘Environmental Justice’ at CU Denver, Fall 2023
- Co-Instructor for ‘Introduction to GIS’ at CU Denver in Fall 2022
- Instructor for ‘Urban Data Science’ at CU Denver in Fall 2022, Fall 2023
- Instructor for the Master’s level course, ‘Urban Sustainability’ at CU Denver in Spring 2022 (x2 sections), Spring 2023 (1 section), and Spring 2024 (x2 sections)
- Instructor for the PhD colloquium at CU Denver in Spring 2022
- Co-Instructor for the course ‘Digital Data and Tools for Transport Research: An Introductory Course’ organized by Columbia Climate School’s Center for Sustainable Urban Development
- Taught pre-university Physics to 16 students at the University of Oxford who were part of the Oxbridge Academy in the summer of 2014

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GUEST LECTURES

- Guest Lecturer for ‘Sustainable and Resource Management’ at CU Denver on Oct 31, 2023
- Guest Lecturer for the PhD Colloquium at CU Denver, Nov 14, 2023
- Guest Lecturer for ‘Introduction to GIS’ at CU Denver on August 24 and 31, 2023
- Guest Lecturer for ‘Urban Climate and Air Quality’ at CU Denver on March 29, Spring 2023
- Guest Lecturer for ‘Sustainable Design Practices’ at CU Denver on March 31, Spring 2023
- Guest Lecturer for the Precision Public Health Seminar course at Korea University in May, 2023
- Guest Lecturer for the MOOC, ‘Cities and Climate Change’ developed by MIT and Columbia University in June 2023
- Guest Lecturer for ‘Environmental Policy and Management’ at CU Denver in Fall 2022
- Guest Lecturer for ‘Environmental Management’ at Yale University in Spring 2022
- Guest Lecturer for ‘Introduction to Smart Cities’ at CU Denver in Spring 2022
- Guest Lecturer for ‘Introduction to GIS’ at MIT in Fall 2021 and Spring 2022

TEACHING ASSISTANT (TA)

- TA for the Master’s level course: ‘Introduction to Environmental Policy and Planning’ with a focus on Environmental Justice in Fall, 2020 at MIT
 - Lab Instructor for the Master’s level course: ‘Introduction to Spatial Analysis’ in Fall, 2020 at MIT
 - TA for the Masters level courses: ‘Microeconomics’ & ‘Planning Economics’ in Spring 2020 at MIT
 - TA for the undergrad course: ‘Making Public Policy’ in Fall 2019 at MIT
 - TA for the Masters level course: ‘Quantitative Reasoning’ in Fall 2018 at MIT
 - TA for the undergrad course: ‘Energy Management’ in Spring, 2013 at IIT Bombay
 - TA for the postgrad course: ‘Energy Systems Modeling and Analysis’ in Fall 2012 at IIT Bombay
-

ADVISING

DOCTORAL COMMITTEE MEMBERSHIP

- Amanda (Mandy) Rees (2023-)
- Shelley McMullen (2022-)
- Tehya Stockman (2022-23)

MASTER’S THESIS ADVISED

- Ebru Altinitas (2023-)

RESEARCH ASSISTANTS

- Ruth Mekonnen (Summer 2023 and Fall Internship, 2023)
- Saadhana Puroshothama (Summer 2023 and Fall Internship, 2023)
- Brendan Cicione (Summer and Fall, 2023)
- Emilia Oscilowicz (Summer 2023)
- Brady Graeber (Summer, 2023)
- Kirk Hohsfield (Summer, 2023)

CURRICULUM VITAE

-PRIYANKA DESOUZA

Address: Department of Urban and Regional Planning, UC Denver

Email: priyanka.desouza@ucdenver.edu • *Phone:* +1-6099203465

- Grace Hood (Spring, 2023)
 - Yonatan Wolde (Eureca Program at CU Denver for UGs, Fall, 2022)
 - Hunter Carroll (Eureca Program at CU Denver for UGs, Fall, 2022)
 - Mentored several undergraduate students who worked at the Senseable City Lab (2021)
-

NONPROFITS/GOVERNMENTS

- Serves as the community science advisory board member for CleanAIRE NC (2024-)
- Serves as an advisory board member for OpenAQ (2023-)
- Served as an expert witness for Earth Justice (2023)
- Served as an advisor for the Government of Kenya on updating the 2014 air quality standards (2023)

FIELD

- Member of the USGS Powell Center working group, “Improving airborne disaster response coordination and communication with real-time open environmental data” 2024-
- Social Justice and Environmental Quality in Denver (SJEQ-D) advisory board member 2022-2024
- Organizer of Denver’s Air Pollution Community of Practice which entailed organizing workshops for working groups: air pollution science generators and air pollution communicators on June 7 and 11, 2024
- Member of the scientific committee for the 13th International Conference on Carbonaceous Particles in the Atmosphere organized by the Lawrence Berkeley National Laboratory held between July 9 - 12, 2023
- Academic Editor for PLOS Global Health (2023-), Scientific Reports (2023-) and Frontiers in Climate (2022-)
- Guest editor for special issue on ‘Urban Sensing Methods and Technologies’ for the Remote Sensing Journal (2023)
- Co-organizer of the Air Sensors International Conference India in August, 2022
- Co-organized the session, ‘Connecting and Brainstorming on Free and Open Source Software (FOSS) for Air Sensor Data’ at the Air Sensors International Conference 2022
- Co-moderated the session, ‘Filling in the air quality data gap and enabling air quality management in LMICs using low-cost sensors’ at ASIC 2022
- Co-organizer for the ‘Cumulative Exposures and Community-Based Science: Odor, Chemicals, Air pollutants, Noise, and More’ session at AGU 2022
- Advisory member of the Social Justice and Environmental Quality in Denver (SJEQ-D) project (<https://www.sjeqdenver.com>), an NSF-funded research project working in the North Denver communities of Globeville, Elyria-Swansea, and Cole 2022-
- Co-organizer for the ‘Environmental Justice/Equity and Global Change-Methodologies, Frameworks and Results’ session at AGU 2021
- Reviewer for NIEHS Children's EH Research Translation Center Pilot Grants (2022)
- Earth Science Women’s Network member engagement committee representative 2021-2022
- Peer reviewer for book proposals at Routledge (2023-)

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- Peer reviewer for journals: *Environmental Science & Technology*, *Journal of Exposure Science & Environmental Epidemiology*, *Scientific Reports*, *Atmospheric Environment*, *Atmospheric Measurement Techniques*

COLLEGE AND DEPARTMENT

- Department of Urban and Regional Planning, CU Denver's representative on the Lecture series committee 2021-
- Organized a monthly research seminar for the Department of Urban and Regional Planning at CU Denver 2022-
- Reviewer of Masters of Urban and Regional Planning applications 2022-
- College of Architecture and Planning representative on the CU Denver Strategic Planning Implementation committee 2022-2023
- Student reviewer of PhD applications to the Department of Urban Studies and Planning, MIT 2018 - 2020

COMMUNITY

- Served on the preselection committee for the Rhodes Scholarship India 2021, 2022, and on the China pre selection committee 2018
- Organizer of the City Nature Challenge Boston 2018

SPORTING ACHIEVEMENTS (NATIONAL & INTERNATIONAL HONORS)

- Bronze Medal at the **International Open Thomson Rapid Chess Tournament** in Singapore, 2010
- **Gold medal** at the **Inter-IIT tennis tournament** for women held in Chennai, 2008
- Bronze level award in the **Duke of Edinburgh Award System**, 2006
- Awarded the **Government of India sports scholarship**, 2005-2006
- Represented India at the **Asian Youth Chess Championship** in Singapore, 2004
- **Gold Medal** at the **National Chess Championship** for girls under 17, 2004

OTHER ACTIVITIES

- Stage Magician, performed at a variety of charity events and the Magdalen College 2014 Ball at the University of Oxford
- Produced the musical, '*Nyamgondho*' at Kenya National Theater, 2016
- Convener of the Speakers Club and Tech Club at IIT Bombay, 2014