








MEENAKSHI KUSHWAHA

Environmental and public health professional with 10 years of interdisciplinary research experience and established record of peer-reviewed journal publications. Currently seeking a PhD position to enhance my academic skills, practice teaching and perform consequential environmental epidemiology.






EDUCATION

- 2015 • **University of Washington, Seattle**
MPH in Environmental and Occupational Health  Seattle, WA
 - Certificate in International Development Policy and Management
- 2008 • **University of Alabama at Birmingham**
MS in Biomedical Engineering  Birmingham, AL
- 2006 • **University of Alabama at Birmingham**
BTech in Bioengineering  Thanjavur, India

PUBLIC HEALTH PROJECTS

- 2017 | Present • **Air Quality**
Co-founder and Lead consultant, ILK Labs  Bangalore, India
 - Designed and implemented mobile air quality monitoring to generate high resolution pollution maps (Project partners: University of Washington, Seattle, University of Texas, Austin and CSTEP, India)
 - Led setting up city-wide network of 40 low-cost PM2.5 monitors
 - Analyzed the Indian Human Development Survey panel data set to determine factors associated with LPG adoption and disadoption.
- 2019 • **Exposure Assessment**
Consultant, New York Times  New Delhi, India
Consulted on a story on PM2.5 personal exposures in Delhi neighborhoods.
- 2014 | 2016 • **Childhood Lead Exposure (Hanoi, Vietnam)**
Graduate Research Assistant, University of Washington  Seattle, WA
 - Evaluated an intervention to reduce childhood lead exposure in a battery recycling village
 - Determined risk factors by analyzing baseline and follow-up blood lead levels using R and Stata
- 2014 | 2016 • **Health Policy**
Student Consultant, Washington State Department of Health  Seattle, WA
 - Collaborated with state officials to develop health policy regarding maternal and childhood lead screening

CONTACT

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SKILLS

 **Experience:** Worked on environmental health projects in Africa, US, and Asia.  **Programming:** R, GitHub, ArcGIS, STATA 
Other: Teaching, scientific communication, data analysis, data visualization, statistics, experimental design, project management

{data-icon=laptop} Proficient in R, data visualization, and reproducible code.

This resume was made with the R package [pagedown](#).

Last updated on 2020-11-17.

2014



Cooking and Pneumonia Study (CAPS)

Intern, Liverpool School of Tropical Medicine

📍 Karonga, Malawi

- Developed assessment tools to monitor the accuracy and IMCI compliance of pneumonia diagnosis
- Piloted field implementation of the assessment tools to collect data on performance indicators
- Developed plan for IMCI training workshops using participatory methods



TEACHING EXPERIENCE

2020



Introduction to R Language for Beginners

Instructor of R and Data Visualization

📍 Remote

2017



Grand Challenges Impact Lab

Country Coordinator, University of Washington

📍 Bangalore, India

2020

- Developed curriculum, and implemented the 15-credit study abroad course
- Lectured on design thinking and cross-cultural collaboration

2017



Health and Environment

Co-Instructor, Azim Premji University

📍 Bangalore, India

- Mentored graduate students on writing teaching cases connecting planetary boundaries to public health

2015



Global Environmental Health

Teaching Assistant, University of Washington

📍 Seattle, WA



OTHER PROFESSIONAL EXPERIENCE

2011-

2013



Research Associate, Department of Prosthodontics

The University of Iowa

📍 Iowa City, IA

- Expanded lab capabilities by establishing cell culture activities and developing protocols
- Ensured compliance with regulatory requirements by developing test methods using ASTM/ISO standards

2009-

2011



Research Associate, Restorative and Prosthetic Dentistry

The Ohio State University

📍 Columbus, OH

- Designed and conducted biocompatibility experiments for in vitro characterization of orthopedic ceramics
- Investigated physical characteristics of zirconia-based ceramics for dental applications

2006-

2008



Research Assistant, Department of Biomedical Engineering

The University of Alabama at Birmingham

📍 Birmingham, AL

- Assisted in setting up Tissue Engineering Laboratory by formulating easy-to-understand standard operating procedures, equipment maintenance and troubleshooting -Developed a drug-releasing scaffold for cardiovascular implant coatings and evaluated drug release profile



AWARDS & HONORS

ISEE

Travel Award (2019, 2020)

University of Washington

Graduate School fund for Excellence and Innovation Travel Award, 2015

Graduate School Scholarship, 2013-2015

The Ohio State University

Invited Judge at the Annual Research Day, 2011

University of Alabama

UAB Caroline P. Ireland Research Scholarship Award, 2007



SELECTED PUBLICATIONS, PRESENTATIONS AND PATENT

- 2020 ● **Mobile-monitoring of Black Carbon and Ultrafine particles in Bangalore, India**
ISEE Presentation (Session: High Resolution Air Pollution Exposure Assessment)
Virtual
- 2020 ● **Mobile-Monitoring Campaign for Air-Pollution Studies in Bengaluru**
Working Paper, CSTEP, 2020
Sreekanth V, and **Kushwaha M**
- 2020 ● **mmaqshiny v1.0: R-Shiny package to explore Air-Quality**
Journal of Open Source Software. 2020 Jun 28;5(50):2250.
Upadhyay AR, Agrawal P, Vakacherla S, and **Kushwaha M**.
- 2019 ● **Mobile-Monitoring of Air Pollution (Black Carbon): Preliminary Results from Bangalore, India**
ISEE Conference Presentation
Utrecht, Amsterdam
- 2018 ● **What Explains LPG Adoption? Role of Culture, Women's Empowerment, and Economics, Using the Indian Human Development Survey, 2005 and 2012.**
ISEE Conference Poster
Ottawa, Canada
- 2016 ● **A Targeted Approach to Blood Lead Screening in Children, Washington State. 2015 Expert Panel Recommendations**
Contributing Author
- 2014 ● **Childhood Lead Exposure in a Vietnamese Battery Recycling Village.**
Invited podium presentation at Academic Pediatric Association Scholars Retreat
Reston, VA
- 2014 ● **Endothelium Mimicking Nanomatrix.**
United States Patent No. 8,735,354.
Jun HW, **Kushwaha M**, Briggata BC, Anderson PG.
- 2012 ● **Differentiation of human mesenchymal stem cells on fluorapatite glass-ceramics.**
Dental Materials. 2012 Mar;28(3):252-60.
Kushwaha M, Pan X, Holloway JA, Denry IL.
- 2010 ● **A nitric oxide releasing, self assembled peptide amphiphile matrix that mimics native endothelium for coating implantable cardiovascular devices.**
Biomaterials. 2010 Mar;31(7):1502-8.
Kushwaha M, Anderson JM, Bosworth CB, Minor WP, Andukuri A, Lancaster JR Jr, Brott BC, Anderson PG, Jun HW.