

**BINDU PANIKKAR**

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Education

**Tufts University**, Medford, Massachusetts, USA  
*Doctor of Philosophy (PhD) in Environmental Health, Nov 5, 2011*  
*Title: Migration, Work, Health, and Justice: Occupational Safety and Health Among Immigrant Workers in Somerville, Massachusetts*

**Tufts University**, Medford, Massachusetts, USA  
*Master of Arts (MA) in Public Policy, Feb 9, 2002*  
Department of Urban and Environmental Policy and Planning

*Master of Science (MS) in Environmental Health, Feb 9, 2002*  
Department of Civil and Environmental Engineering

**University of Kerala**, Trivandrum, Kerala, India  
*Bachelor of Arts (BA) in English and History, 1992*

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TEACHING EXPERIENCE

From Aug 15      Assistant Professor, Rubenstein School of Environment and Natural Resources and the Environmental Program, University of Vermont, VT  
Jan 15– May 15    Adjunct Faculty, Department of Anthropology and Archeology, University of Calgary, Calgary, Alberta, Canada  
Aug 13–May 14    Adjunct Faculty, Program in Science Technology & Science, Department of History, Brown University, RI  
Aug 13 – May 14   Faculty, Graduate Program in Health Arts & Sciences, Goddard College, VT  
Jan. 13 – Apr 13   Research Practicum, Social Science Environmental Health Institute, Northeastern University  
Jan. 09 –May 10   Teaching Assistant, School of Medicine, Tufts University  
Jan. 08 – May 10   Teaching Assistant, School of Engineering, Tufts University

Courses Taught:    Sustainability and Human Ecology in the Circumpolar North, Changing Arctic Environment, Community Based Research Practicum, Gender Science and Society, Race Science and Society, Environmental Health, Biology of Water and Health,

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RESEARCH EXPERIENCE

Aug 14 – Present    Research Associate, Arctic Institute of North America, University of Calgary  
July 12 – May 14    Postdoctoral Research Associate, Social Science Environmental Health Research Institute, Department of Sociology & Anthropology, Northeastern University  
June 12 – May 14    Research Affiliate, Department of Pathology, Brown University  
Jan 2012.            Postdoctoral Fellow, School of Medicine, Harvard University (Declined)  
Dec 11 – June 12    Postdoctoral Fellow, Department of Sociology, Brown University

June 10 – Dec 11 Research Fellow, Department of Sociology, Brown University  
Sep. 05 – May 10 Research Fellow, School of Engineering, Tufts University  
Sep. 03 – Sep 05 Research Assistant, School of Medicine, Tufts University  
Sep. 03 – Aug. 04 Research Assistant, Graduate School of Arts and Sciences, Tufts University  
Dec. 01 – Mar. 02 Research Assistant, School of Nutrition Science and Policy, Tufts University  
Nov. 00 – Mar. 01 Research Assistant, Tufts Institute of Environment,

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#### COMMUNITY ORGANIZING & POLICY EXPERIENCE

July12- May 14 Program Director, Hospitals for a Healthy Environment in RI, Providence, RI  
Jan. 2013. Environmental Health Specialist, Department of Health, State of Alaska, Anchorage, AK (Declined)  
Sep. 05 – May 09 Board Member/Project Coordinator, Tufts Community Research Center  
Mar. 02 –Aug. 03 Environmental Health Coordinator, Dorchester Environmental Health Coalition  
Jan. 95 – May 97 Project Coordinator, Hyphen Communications, Cochin, Kerala, India

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#### AWARDS

2009 Presidential Award for Citizenship and Public Service, Tufts University.  
2009 Littleton Award, School of Engineering, Tufts University.  
2002 Outstanding Academic Performance, Graduate School of Arts and Sciences, Tufts University.  
2000 Outstanding Research, International Women’s University, German Academic Exchange Service.

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#### GRANTS & GRANT WRITING EXPERIENCE

2013-15 National Science Foundation Program in Science Technology and Society (PI), \$150,000  
Project Title: The Governance of Science and Technology in the Permitting Process of Industrial-Scale Resource Extraction: The Case of the Proposed Pebble Mine in Bristol Bay, Alaska

2010 -13 Children’s Environmental Health Center, Brown University (50% Postdoc salary support /Grant writing)  
P 20: United States Environmental Protection Agency (EPA: RD – 83459401 -1) and the National Institute of Environmental Health Sciences (NIH: ES018169)  
Project Title: Evaluation of the Environmental Impacts on Fetal Development  
PI: Kim Boekelhide

2012 -13 Superfund Research Program, Brown University (50% Postdoc salary Support)  
National Institutes of Health (5 P42 ES013660)  
Project Title: Reuse in Rhode Island: A State based approach to complex exposures  
PI: Kim Boekelhide

2010-12 Department of Sociology, (50% Postdoc Salary Support)  
National Science Foundation Program in Science Technology and Society (SES 0822724)  
Project Title: “Ethical and Legal Challenges in Communicating Biomonitoring and Personal Exposure Results to Participants”  
PI: Rachel Morello-Frosch

- 2005 -09 Department of Civil & Environmental Engineering, (Doctoral fellowship) Tufts University  
National Institute of Occupational Safety and Health, (R250H008776-04)  
Project Title: Assessing and Controlling Occupational Risks Among Immigrants in  
Somerville, MA  
PI: David Gute
- 2004 Tufts Institute of Environment, (PI), Graduate Fellowship, (\$8000)  
Project Title: Ecological Study of Endocrine Diseases in Massachusetts
- 2002 Toxic Use Reduction Institute, (PI), Lowell, MA (\$10,000)  
Project Title: Dorchester Clean Air Campaign
- 2002 Dorchester Environmental Health Coalition, (Research and Grant writing)  
National Institute of Environmental and Health Sciences (R25ES012585)  
Project Title: Dorchester Occupational Health Initiative  
PI: Lenore S. Azaroff
- 2001 School of Nutrition, Tufts University (Research and Grant Writing)  
Center for Disease Control (N96)  
Project Title: Shape Up Somerville, Eat Smart, Play Hard  
PI: Christina Economos

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#### FELLOWSHIPS

- 2008 Graduate Institute for Teaching, (Summer Fellowship) Tufts University
- 2000 German Academic Exchange Service (Summer Fellowship) (DAAD) International Women's  
University
- 1999-01 Graduate School of Arts & Sciences, (MA/MS Fellowship), Tufts University

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#### PUBLICATIONS

**Panikkar B.** Gute DM, Brugge D, Woodin M and Hyatt R. "They See Us as Machines:" The Narrative of Recent Immigrant Women in the Low Skilled Informal Labor Sector. PLoS. (In Review)

**Panikkar B** and Sandler R. The Socio-Ethical Considerations in the Continued Operation of Nuclear Power Plant Past its Design Life. In Taebi B and Roesner S. (Ed) The Ethics of Nuclear Energy: Risk, Justice, and Democracy in the Post-Fukushima Era. Cambridge University Press. (In Press)

**Panikkar B.** Woodin M, Brugge D, Hyatt R, Community Partners of the Somerville Community Immigrant Worker Project and Gute DM. Characterizing the Low Wage Immigrant Workforce: A Comparative Analysis of the Health Disparities Among Selected Occupations in Somerville, Massachusetts. *American Journal of Industrial Medicine* 2013.

**Panikkar B.** Smith N. and Brown P. Reflexive research ethics in fetal tissue xenotransplantation research. *Accountability in Research*. 2012,19:344–369. NIHMSID # 470419

**Panikkar B.** Woodin M, Brugge D, Gute DM. et al. Ethnicity, Years in the US, and English Proficiency and Occupational Health and Safety Experiences Among Self-identified Immigrant Workers Living or Working in Somerville, Massachusetts. *International Journal of Environmental Research and Public Health. Special Issue on Migrant Health*. 2012, 9(12), 4452-4469.

**Panikkar B.** Woodin M, Brugge D, Hyatt R, Community Partners of the Somerville Community Immigrant Worker Project and Gute DM. Occupational Health Outcomes Among Self-identified Immigrant Workers Living and Working in Somerville, Massachusetts. *Journal of Immigrant and Minority Health* Published online: 14 September 2012.

**Panikkar B,** Yazzie E, Brugge D. Ethics of uranium mining research and the Navajo people. In, Quigley D, Lowman A, Wing S, eds. *Tortured Science: Health Studies, Ethics and Nuclear Weapons in the United States*. October, 2011, Baywood Publishing: NY. (Book Chapter)

**Panikkar B.** Understanding Immigrant Work and Health. In Lou, Sana, Sajatovic (Eds.) *Encyclopedia of Immigrant Health*. Springer Science & Business Media. 2011

**Panikkar B,** Brugge D. The Ethical issues in uranium mining research in the Navajo Nation. *Accountability in Research* 2007, 14:121-153.

Brugge D, **Panikkar B,** Snell J, Welker-Hood K. Lessons from Developing Methods to Study the Relationship of Energy and Water Savings to Housing Conditions and Resident Health. *Local Environment* 2006, 11:701-717.

Hindin, R. Brugge, D and **Panikkar, B.** Epidemiological perspectives on the teratogenicity of Depleted Uranium, *Environmental Health: A Global Access Science Source* 2005, 4:17 (August 2005)

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#### REPORTS

**Panikkar B.** Geographic Representation of Environmental Hazards in MA, Toxics Action Center, Boston, MA. 2004

**Panikkar B.** Dorchester Environmental Profile, Dorchester Environmental Health Coalition, Dorchester, MA. 2003

**Panikkar B.** Country Notebooks on India and Philippines, Verit'e, Amherst, MA. 2001

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#### SELECTED CONFERENCES

April 23-30, 2015: Arctic Connect: A Platform For Knowledge Sharing And Collaboration. Arctic Science Summit Week, Japan

Dec 15-19, 2014: Arctic BioMap: Designing and building community-based monitoring systems for the Arctic. American Geophysical Union, San Francisco.

December 8-12, 2014: Arctic BioMap: Designing and building community-based monitoring systems for the Arctic. Arctic Change, Arctic Net, Ottawa.

December 8-12, 2014: The governance of science and technology in the permitting of newly proposed mine in Alaska. Arctic Change, Arctic Net, Ottawa

November 26-27, 2014: Workshop: Multi-species monitoring using winter track surveys in the Sahtu Settlement Region, Northwest Territories Department of Environment and Natural Resources, Tulita, NT.

November 4-6, 2014: Collaboration and knowledge sharing in the North: The ASTIS and Arctic Connect Platforms. Canadian Polar Commission Conference on Canada-US Northern Oil and Gas Research Forum, Yellowknife, Northwest Territories

October 5-7, 2014: The governance of science and technology in the permitting of newly proposed mine in Alaska. Mining in Arctic, Kirkenes, Norway

May 2014: Western Mining Action Network, Anchorage Alaska

April 2, 2011-14. Chair, Excellence in Environmental Sustainability in Healthcare, Women and Infants Hospital of RI, <http://biomed.brown.edu/Events/RIHforHealthyEnvironment2012/>  
<http://biomed.brown.edu/Events/RIHforHealthyEnvironment2013/>

Sep 27-30, 2012: Women's Congress for the Rights of Future Generation. Moab, UT

Dec 7, 2007: Event Organizer, Speed Dating: Forging New Community – University Research Partnerships, Tufts University  
<http://activecitizen.tufts.edu/blog/2007/12/20/community-groups-and-tufts-try-speed-dating-and-like-it/>, <http://activecitizen.tufts.edu/wp-content/uploads/TCRCSpeedDatingAttendanceList.pdf>

Dec 10, 2007: **Panikkar B.** Women day workers in Boston. NIEHS Annual Environmental Justice Grantee Meeting. Boston, MA

April 11-14, 2007: Brugge D, Lowe L, and **Panikkar B.** Relationships between community organizing and community research: Challenges and opportunities? A workshop. Mobilizing Partnerships for Social Change, 10<sup>th</sup> annual conference of Community Campus Partnerships for Health, Toronto.

2006. Event Organizer, Research Symposium on Community Based Participatory Research, Tufts University,

September 29 - October 1, 2004: Brugge D, **Panikkar B.**, Snell J, Vinas B, Welker-Hood K. Environmental and Health Impact of Energy and Water Saving Renovations in Public Housing. Proceedings of the 2<sup>nd</sup> WHO International Housing and Health Symposium., Vilnius, Lithuania: 286-293.

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#### SELECTED PRESS

Jennifer Allford. Happy Earth Day! Professor's passion inspires students. UToday, University of Calgary. April 22, 2015. <https://www.ucalgary.ca/utoday/issue/2015-04-22/happy-earth-day-professors-passion-inspires-students>

Wildlife Health Australia (Blog). Arctic BioMap: A community-specific database to track wildlife biodiversity, disease, and environmental change. Feb 19, 2015  
<https://wildlifehealthaustralia.com.au/Resources/TabId/161/ArtMID/821/ArticleID/2499/Arctic-BioMap-A-Community-specific-Database-to-Track-Wildlife-Biodiversity-Disease-and-Environmental-Change.aspx>

Healthy Wildlife. (Blog) Arctic BioMap: A community-specific database to track wildlife biodiversity, disease, and environmental change. Canadian Wildlife Health Cooperative. Dec 19, 2014.  
<http://hwblog.cwhc-rcsf.ca/arctic-biomap-a-community-specific-database-to-track-wildlife-biodiversity-disease-and-environmental-change/>

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#### PEER REVIEW

Journal of Immigrant and Minority Health  
Progress in Community Health Partnerships: Research, Education and Action.

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#### COMMUNITY MEMBERSHIPS

2015 – Present Reviewer, MIT Climate Co-Lab Catalyst/Connector Catalyst, MIT, Boston  
2013-2014 Executive Board Member, Pilgrim Coalition, Plymouth, MA  
2013-2014 Safer Chemical Consultant, Global Green and Healthy Hospitals, Healthcare Without Harm  
2011-2014 Chair, Hospitals for a Healthy Environment in Rhode Island  
2011-2013 Member, Local Wellness Council of Rhode Island  
2011- 2013 Member, Alliance for a Healthier Rhode Island  
2010-2013 Community Advisory Board Member, Brown University Children’s Environmental Health Center  
2010-2013 Contested Illness Research Group, Brown University  
2004-2009 Tufts Community Research Center, Boston, MA  
2003-2006 Navarasa Dance Theater Company, Somerville, MA

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#### OTHER

Proficient in English, Hindi and Malayalam  
*Computer Skills:* SPSS, Nvivo 8, GIS Arc View 8.0

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## REFERENCES

David M. Gute  
Professor of Civil & Environmental Engineering  
113 Anderson Hall  
Tufts University,  
Medford, MA 02155  
Tel: 617 627 3452  
Email: [David.Gute@tufts.edu](mailto:David.Gute@tufts.edu)

Douglas Brugge  
Professor of Public Health and Community Medicine  
136 Harrison Ave  
Tufts University  
Boston, MA 0211  
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University Distinguished Professor of Sociology & Health Sciences  
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Director, Program in Science Technology and Society  
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