


Racial and Ethnic Composition of Students, Graduates, and Faculty in Environmental Health Sciences, 2011 to 2021

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ABSTRACT: The lack of diversity among the environmental health sciences (EHS) workforce has been an ongoing concern. However, limited research exists on the racial and ethnic composition of EHS students and faculty over time. We analyzed 2011 and 2021 data on EHS students, graduates, and faculty to compare changes in the racial and ethnic composition among Association of Schools and Programs of Public Health-member institutions. Among the institutions that reported data in both years, we observed significant proportion increases among Hispanic enrolled students (overall and master's: both $P < .01$), Multiracial enrolled students and graduates (overall: both $P < .05$, master's level: both $P < .05$), and Asian tenured professors ($P = .01$). Significant decreases were observed among Unknown enrolled students (overall: $P = .01$, master's level: $P < .001$), Unknown master's level graduates ($P = .01$), Asian enrolled students (overall and master's: both $P < .05$), and White full professors ($P < .001$) and tenured faculty ($P < .001$). Despite these findings, no substantial change existed among the other racial and ethnic groups. More efforts are needed to recruit, train, and promote racial and ethnic minorities who can leverage their lived experiences to provide novel solutions to environmental challenges.

KEYWORDS: Environmental health sciences, racial composition, racial and ethnic diversity, student diversity, faculty diversity

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Introduction

The lack of diversity in the Environmental Health Sciences (EHS) workforce has been an ongoing concern of several leading EHS organizations, including the National Institute of Environmental Health Science, the National Environmental Health Association, the Association of Environmental Health Academic Programs, the National Environmental Health Science and Protection Accreditation Council (EHAC), and the Centers for Disease Control and Prevention.^{1–5} Increasing diversity in the EHS workforce is important because it plays a critical role in improving the health outcomes of individuals and communities exposed to environmental toxins and chemicals.⁶

In many cases, high concentrations of these environmental exposures have contributed to health inequities among underrepresented, underserved, and socioeconomically disadvantaged populations.^{7–14} For example, mounting evidence suggests a link between higher concentrations of endocrine-disrupting chemicals and higher risk of diabetes among Hispanic, Black, and low-income individuals.¹⁵ Unequal exposure to environmental chemicals overall may be driven by the poor built environment conditions that are partly a result of discriminatory practices such as redlining and residential segregation.¹¹ More recently, these poor built environment conditions may have contributed to the increased spread of the coronavirus among marginalized populations.¹⁶ A detailed examination of electronic health records from 399 hospitals across 21 states showed

that non-White patients experienced higher coronavirus infection, hospitalization, and death rates than White patients.¹⁷ The infection rates among Hispanic (143.0/10,000) and Black (107.0/10,000) patients were more than twice that of White (46.0/10,000) patients. The death rates were more than twice as high: Hispanic (5.6/10,000), Black (5.6/10,000), and White (2.3/10,000) patients. These findings are consistent with national data that show high coronavirus cases and deaths among Hispanic and Black populations.¹⁸

One approach to help reduce environmental health (EH) inequities is to increase the racial and ethnic representation of the EHS workforce.^{1,2,5,12} Limited evidence exists regarding the impacts of increased minority representation in the EHS workforce on EH inequities. However, increased minority representation within clinical medicine has been shown to reduce health inequities.^{19–21} Studies show improvements in adherence to cardiovascular disease medications,¹⁹ cholesterol screening,²⁰ and lung cancer risk perception²¹ when patients are seen by doctors of the same race or ethnicity. These improvements could also address EH inequities since racial and ethnic minority EHS professionals have a better understanding of community and cultural dynamics.^{1,2}

Increasing minority representation in the EHS workforce requires examining the racial and ethnic composition of students and faculty in EHS training programs. To date, there has been one such study, which examined annual survey data from



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Emerging Trends, Techniques, and Applications in Geospatial Data Science Gaur, Loveleen, Garg, P.K., 2023-04-24 With the emergence of smart technology and automated systems in today's world big data is being incorporated into many applications Trends in data can be detected and objects can be tracked based on the real time data that is utilized in everyday life These connected sensor devices and objects will provide a large amount of data that is to be analyzed quickly as it can accelerate the transformation of smart technology The accuracy of prediction of artificial intelligence AI systems is drastically increasing by using machine learning and other probability and statistical approaches Big data and geospatial data help to solve complex issues and play a vital role in future applications *Emerging Trends Techniques and Applications in Geospatial Data Science* provides an overview of the basic concepts of data science related tools and technologies and algorithms for managing the relevant challenges in real time application domains The book covers a detailed description for readers with practical ideas using AI the internet of things IoT and machine learning to deal with the analysis modeling and predictions from big data Covering topics such as field spectra high resolution sensing imagery and spatiotemporal data engineering this premier reference source is an excellent resource for data scientists computer and IT professionals managers mathematicians and statisticians health professionals technology developers students and educators of higher education librarians researchers and academicians

OECD Rural Studies Rural Policy Review of Colombia 2022

OECD, 2022-11-25 Rural regions in Colombia have untapped potential to boost wealth and well being in the country Despite remarkable economic growth over the last two decades Colombia's development policy needs to increase its focus on rurality as regional inequalities remain high by OECD standards and structural challenges still prevent greater development in rural places

Encyclopedia of Applied Developmental Science Celia B Fisher, Richard M. Lerner, 2004-10-16 The most comprehensive one stop source for the latest in applied developmental science Don Floyd President and CEO National 4 H Council The Encyclopedia of Applied Developmental Science is an important and timely contribution to this burgeoning field This four volume set is the authoritative source that encompasses the entire range of concepts and topics involved in the study of applied developmental science Its contents and levels have broad appeal for those interested in how the application of knowledge about human development can be used to enhance the lives of individuals families and communities The breadth of activity in applied developmental science makes adequate representation of its concepts and topics a daunting challenge To this end the encyclopedia seeks to answer the following questions How may information about this field be integrated in a manner accessible meaningful and useful to the next generation of the leaders of our nation and world How may we best convey the knowledge necessary for them to understand the nature of their development and the way that they may contribute positively to their own lives to their families and communities and to the designed and natural environments of which they will be stewards The Encyclopedia of Applied Developmental Science provides the most effective way to

address these questions It includes entries written in an authoritative but not overly technical manner by the broad range of scholars and practitioners involved in applied developmental science In addition to an alphabetical table of contents there is a readers guide that organizes the entries into 30 content categories to help the reader locate similarly themed entries with ease The encyclopedia is ideal for libraries serving those with interests in psychology human development human ecology education sociology family and consumer sciences and nursing as well as social work and other human services disciplines The entries are written to be accessible to not only professionals but also to policy makers and other potential consumers of applied developmental science scholarship This includes young people and their parents teachers and counselors Topics Covered Adolescent Development ADS Training and Education Adult Development Biographies of Applied Developmental Scientists Child Development Civic Engagement Culture and Diversity Development Promoting Interventions Developmental Assessment Developmental Disorders Developmental Processes Developmental Risks Ecology of Human Development Emotional and Social Development Ethics Families Foundations Health Historical Influences Infant Development Organizations Parenting Personality Development Religiosity and Spirituality Research Methodology Schools Social Issues Theory Universities Youth Programs Advisory Board Peter Benson President Search Institute Joan Bergstrom Wheelock College Nancy A Busch Rossnagel Fordham University Roger A Dixon University of Alberta Felton Tony Earls Harvard University Robert C Granger William T Grant Foundation Daniel P Keating University of Toronto Kim Choo Khoo National University of Singapore Kaveh Khoshnood Yale University Bonnie Leadbeater University of Victoria Rick Little President CEO The ImagineNations Group Gary B Melton Clemson University Jari Erik Nurmi University of Jyv skyl Finland Ellen Pinderhughes Vanderbilt University Avi Sagi Schwartz University of Haifa Israel T S Saraswathi University of Baroda India Rainer K Silbereisen University of Jena Germany Merrill Singer Chief of Research Hispanic Health Council Inc Margaret Beale Spencer University of Pennsylvania Linda Thompson University of Maryland Richard A Weinberg University of Minnesota Hirokazu Yoshikawa New York University Luis H Zayas Washington University St Louis Edward Zigler Yale University

[China's Solution to Its Ethno-national Issues](#) Shiyuan Hao,2019-10-11 This book focuses on the global issue of ethnic problems and examines the theory and practice of how China addresses its ethnic problems from a macro perspective following the guidelines formulated by the working conference on ethnic affairs of the Central Committee of Chinese Communist Party in 2014 Based on comparative and empirical studies it also analyzes specific solutions to ethnic problems in contemporary China such as how the country has succeeded in redressing material inequalities among different ethnic groups allowing these groups to share in the country s development and gain recognition and acceptance

The Cambridge Handbook of Sociology: Volume 2 Kathleen Odell Korgen,2017-08-11 Whether a student an instructor a researcher or just someone interested in understanding the roots of sociology and our social world The Cambridge Handbook of Sociology Volume 2 is for you This second volume of the Handbook covers specialties within sociology and interdisciplinary

studies that relate to sociology It includes perspectives on race class feminist theories special topics e g the sociology of nonhuman animals quality of life social indicators research the sociology of risk the sociology of disaster the sociology of mental health sociobiology the sociology of science and technology the sociology of violence environmental justice and the sociology of food the sociology of the self the sociology of the life course culture and behavior sociology s impact on society and related fields e g criminology criminal justice studies social work social psychology sociology of translation and translation studies and women and gender studies Each essay includes a discussion of how the respective subfield contributes to the overall discipline and to society Written by some of the most respected scholars teachers and public sociologists in the world the essays are highly readable and authoritative *The Palgrave Encyclopedia of the Possible* Vlad Petre Glăveanu, 2023-01-25 The Palgrave Encyclopedia of the Possible represents a comprehensive resource for researchers and practitioners interested in an emerging multidisciplinary area within psychology and the social sciences the study of how we engage with and cultivate the possible within self society and culture Far from being opposed either to the actual or the real the possible engages with concrete facts and experiences with the result of transforming them This encyclopedia examines the notion of the possible and the concepts associated with it from standpoints within psychology philosophy sociology neuroscience and logic as well as multidisciplinary fields of research including anticipation studies future studies complexity theory and creativity research Presenting multiple perspectives on the possible the authors consider the distinct social cultural and psychological processes e g imagination counterfactual thinking wonder play inspiration and many others that define our engagement with new possibilities in domains as diverse as the arts design and business **Sociological Abstracts** Leo P. Chall, 1987 CSA Sociological Abstracts abstracts and indexes the international literature in sociology and related disciplines in the social and behavioral sciences The database provides abstracts of journal articles and citations to book reviews drawn from over 1 800 serials publications and also provides abstracts of books book chapters dissertations and conference papers **Encyclopedia of Applied Ethics** , 2012-01-10 The Encyclopedia of Applied Ethics Second Edition Four Volume Set addresses both the physiological and the psychological aspects of human behavior Carefully crafted well written and thoroughly indexed the encyclopedia helps users whether they are students just beginning formal study of the broad field or specialists in a branch of psychology understand the field and how and why humans behave as we do The work is an all encompassing reference providing a comprehensive and definitive review of the field A broad and inclusive table of contents ensures detailed investigation of historical and theoretical material as well as in depth analysis of current issues Several disciplines may be involved in applied ethics one branch of applied ethics for example bioethics is commonly explicated in terms of ethical legal social and philosophical issues Editor in Chief Ruth Chadwick has put together a group of leading contributors ranging from philosophers to practitioners in the particular fields in question to academics from disciplines such as law and economics The 376 chapters are divided into 4 volumes each chapter falling into a subject

category including Applied Ethics Bioethics Computers and Information Management Economics Business Environmental Ethics Ethics and Politics Legal Medical Ethics Philosophy Theories Social and Social Media Concise entries ten pages on average provide foundational knowledge of the field Each article will features suggested readings pointing readers to additional sources for more information a list of related websites a 5 10 word glossary and a definition paragraph and cross references to related articles in the encyclopedia Newly expanded editorial board and a host of international contributors from the US Australia Belgium Canada France Germany Ireland Israel Japan Sweden and the United Kingdom The 376 chapters are divided into 4 volumes each chapter falling into a subject category including Applied Ethics Bioethics Computers and Information Management Economics Business Environmental Ethics Ethics and Politics Legal Medical Ethics Philosophy Theories Social and Social Media

Ethnic Studies and Multiculturalism Thomas J. La Belle,1996-01-01 La Belle and Ward address a major question confronting American higher education How do colleges and universities best prepare students for common citizenship in a diverse democratic state while also nurturing their groups cultures values and institutional participation The authors clarify current debates about diversity and the content of curriculum what one commentator calls the culture wars The book includes an overview of ethnicity intergroup relations and related concepts the history and development of multiculturalism and ethnic studies in higher education in the United States and an analysis of the issues related to diversity in higher education particularly as they relate to tensions between ethnic studies and multicultural efforts

National Integration and Rotational Presidency in Nigeria Olumuyiwa Temitope Faluyi,2023-10-27 This book engages literature and opinions of politicians opinion leaders religious leaders lawyers and researchers on national integration in Nigeria In addition to rotational presidency participants interviewed by the author also express views on other national integration measures in Nigeria The monograph represents a critical work in the field making a significant contribution to the so far lacking literature of fieldwork and scholarship on rotational presidency in Nigeria The monograph will benefit scholars researchers peace and conflict experts politicians students and other stakeholders on how national integration can be cultivated and consolidated Its focus on the Fourth Republic ensures its relevance to the management of political tussles inherent to rotating power in a developing and federal country such as Nigeria

Social Belongingness and Well-Being: International Perspectives Dario Paez,Juan Carlos Oyanedel,2021-10-18

Summary of World Broadcasts ,1999

The Innovation Race Andrew Grant,Gaia Grant,2016-11-21 If innovation is a race Who wins Who loses Who gets eliminated and how is it possible to stay ahead of the game The Innovation Race takes readers on a lively global adventure to explore the current state of innovation Along the way best selling authors Andrew and Gaia Grant search for clues on how to stay ahead in the race and design a more sustainable future Asking the critical questions Why do we innovate Are we at risk of innovating for the sake of innovation What could we be doing better the Grants reflect on whether if in the race to come up with the next big thing we may be losing the purpose

behind the process They then outline how to navigate the key paradoxical challenges that can either frustrate or fuel innovation to change the game By taking the latest academic research and presenting it in an accessible way the Grants present a compelling case for forging a new path for the future The Innovation Race provides concrete strategies to support purpose driven sustainable innovation through deep cultural transformation A unique profiling tool reveals current organisation positioning along with potential opportunities and challenges A practical culture change model then provides clear direction for proactive change With economists estimating that up to 80 per cent of growth comes from new ideas and innovations this thought provoking book provides the strategies and tools to learn how to create an innovation culture for long term success Identify your own sweet spot for innovative thinking Learn the strategies to transform your organisation Engage and motivate employees toward innovative action Excel in implementing a deep cultural shift The Innovation Race will make you reassess what you assumed you knew about innovation help boost the innovation process to new levels and bring your organisation to the forefront Bibliographie Internationale de Sociologie 1980 ,1982 Each Bibliography lists and annotates the most important works published during the year They are arranged by topic and indexed by author subject and geographic location **Arctic Research of the United States** ,1998 **Selected Water Resources Abstracts** ,1974

Production Dynamics for Life Quality in the Incipient 21st Century Chau-kiu Cheung,2022-08-18 This book addresses the life quality of the average adult in the world based on international data weighted according to national population size It rests on the theoretical framework of analytic functionalism to explain statics and dynamics in the production of life quality The statics means the influences of personal and national factors on life quality whereas the dynamics mean the changes in the influences over time This approach elucidates life quality at the personal level rather than at the national level which overlooks what happens to the average person living in the world The approach involves a broad view of the production of life quality including experiences practices and appraisals of life This production also involves personal background characteristics and the national indicators of modernization globalization and environmental issues Knowledge about the production is helpful for policymakers researchers students and other people to upgrade life quality Such knowledge is valuable because it is up to date generalizable and sensible based on the analytic functionalist theoretical framework and statistical estimation **The Developmental Science of Adolescence** Richard M. Lerner,Anne C. Petersen,Rainer K. Silbereisen,Jeanne Brooks-Gunn,2013-08-15 The Developmental Science of Adolescence History Through Autobiography is the most authoritative account of the leading developmental scientists from around the world Written by the scholars who shaped the history they are recounting each chapter is an engaging and personal account of the past present and future direction of the field No other reference work has this degree of authenticity in presenting the best developmental science of adolescence The book includes a Foreword by Saths Cooper President of the International Union of Psychological Science and autobiographical chapters by the following leading developmental scientists Jeffrey Jensen Arnett

Robert Wm Blum Jeanne Brooks Gunn B Bradford Brown Marlis Buchmann John Bynner John Coleman Rand D Conger James E C t William Damon Sanford M Dornbusch Nancy Eisenberg Glen H Elder Jr David P Farrington Helmut Fend Andrew J Fuligni Frank F Furstenberg Beatrix A Hamburg Stephen F Hamilton Karen Hein Klaus Hurrelmann Richard Jessor Daniel P Keating Reed W Larson Richard M Lerner Iris F Litt David Magnusson Rolf Oerter Daniel Offer Augusto Palmonari Anne C Petersen Lea Pulkkinen Jean E Rhodes Linda M Richter Hans Dieter R sler Michael Rutter Ritch C Savin Williams John Schulenberg Lonnie R Sherrod Rainer K Silbereisen Judith G Smetana Margaret Beale Spencer Laurence Steinberg Elizabeth J Susman Richard E Tremblay Suman Verma and Bruna Zani *The Social and Built Environment in an Older Society*
Institute of Medicine,Committee on an Aging Society,1988-02-01 Third in the series this book addresses the social implications of architectural and interpersonal environments for older people It suggests how society and its structures can enhance the productivity of and preserve the quality of life for older residents in a community The study investigates new approaches to the problem including new housing alternatives and new strategies for reflecting the needs of the elderly in housing construction **Basic Research in the Mission Agencies** National Science Board (U.S.),1978

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