Penn Climate Experts
for the Society of Environmental Journalists

• Dolores Albarracín

Professor, Annenberg School for Communication
Director, Social Action Lab

Dolores Albarracín is an expert on the impact of communication and persuasion on human behavior and the formation of beliefs and attitudes. She studies how to fight misinformation and conspiracy theories about science and how to encourage healthy behaviors like vaccination and HIV testing.

Media contact: Mandira Banerjee, mandirab@upenn.edu, 215-746-1798
Keywords: **communication** **psychology** **misinformation**

• Dorit Aviv

Assistant Professor, Architecture, Weitzman School of Design
Director, Thermal Architecture Lab

Dorit Aviv is the director of the Thermal Architecture Lab, a research laboratory at the intersection of thermodynamics, architectural design, and material science. Her work examines how architectural materials and forms can impact airflows, energy interactions, and human health. She is a licensed architect whose current projects include a combined evaporative and radiative cooling prototype for desert climate, development of radiant cooling for hot-humid climates, and a distributed environmental sensing network. She is part of a team developing a high-performance slab system for carbon absorption and storage over a building's lifespan with funding from the U.S. Department of Energy.

Media contact: Michael Grant, mrgrant@design.upenn.edu, 215-898-2539
Keywords: **built environment**

• Katie Barott

Assistant Professor, Biology, School of Arts & Sciences

Katie Barott studies the interactions between reef-building corals and the microbes that surround them, including how they influence the biology and ecology of coral reef ecosystems and how these relationships change as they encounter environmental stressors. She has studied coral reefs for the past decade, conducting fieldwork in Hawaii.

Media contact: Michele Berger, mwberger@sas.upenn.edu, 215-573-4981
Keywords: **biology** **wildlife** **ecology**

• Brian Berkey

Associate Professor, Legal Studies & Business Ethics, Wharton School

Brian Berkey works in moral and political philosophy, including business ethics and environmental ethics. He has written on issues such as the demandingness of morality, individual and corporate obligations of justice, ethical issues arising regarding climate change, exploitation, effective altruism, animal ethics, collective obligations, ethical consumerism, and the relationship between ideal and non-ideal theory.

Media contact: Wharton Media Relations, communications@wharton.upenn.edu

Keywords: **environmental justice** **policy**

• Susanna Berkouwer

Assistant Professor, Business Economics and Public Policy, Wharton School

Susanna Berkouwer specializes in energy, environment, and development economics. Current research projects include energy-efficiency adoption, economic impacts of power outages, political economy of infrastructure construction, climate change and electricity consumption, and carbon taxes under credit market failures.

Media contact: Wharton Media Relations, communications@wharton.upenn.edu

Keywords: **economics** **policy**

• Matthijs Bouw

Professor of Practice, Architecture, Landscape Architecture, Weitzman School of Design

Mattijs Bouw's practice co-led the BIG Team that won the Rebuild by Design competition for the flood protection of Manhattan and is currently part of the multi-disciplinary teams executing the ESCR and BMCR projects, as well as planning the Lower Manhattan Coastal Protection project, including the recently presented FiDi/Seaport Masterplan. Other projects include various Boston Climate Ready district plans, Houston's Resilient Neighborhoods Planning, and Vancouver's Sea2City.

Media contact: Michael Grant, mrgrant@design.upenn.edu, 215-898-2539

Keywords: **built environment**

• William Braham

Professor, Architecture, Weitzman School of Design

Director, Center for Environmental Building & Design

William Braham's research and consulting includes climate-action planning for academic and non-profit institutions; environmental accounting, and building performance analysis, including energy, daylighting and air flow analysis, new materials and methods of construction. The CEBD has worked with the UNICEF Mongolia and GerHub, the Daikin Open Innovation Lab, Nakashima Woodworkers, the Chautauqua Institution, and the University of Pennsylvania Health System.

Media contact: Michael Grant, mrgrant@design.upenn.edu, 215-898-2539

Keywords: **built environment** **global**

• Sanya Carley

Professor, Energy Policy, City Planning, Weitzman School of Design
Faculty Co-Director, Kleinman Center for Energy Policy

Sanya Carley's research focuses on energy justice and just transitions, energy insecurity, electricity and transportation markets, and public perceptions of energy infrastructure and technologies. With the Energy Justice Lab team, she built and maintains the Utility Disconnection Dashboard; she is an author of the Fifth National Climate Assessment report and a member of the Innovation Policy Forum and the Roundtable on Macroeconomics and Climate-related Risks and Opportunities for the National Academies.

Media contact: Lindsey Samahon, lsamahon@upenn.edu, 215-898-5900
Keywords: **energy** **environmental justice** **economics**

• Cary Coglianese

Professor, Law, Penn Carey Law
Professor, Political Science, School of Arts & Sciences
Director, Penn Program on Regulation

Carey Coglianese studies administrative law and regulatory processes, with an emphasis on the empirical evaluation of alternative processes and strategies and the role of public participation, technology, and business-government relations in policymaking. He is also knowledgeable about energy governance, water-affordability issues, and transparency and public participation in rulemaking.

Media contact: Meredith Rovine, rovinem@law.upenn.edu, 610-212-4950
Keywords: **policy** **law**

• Danny Cullenward

Senior Fellow, Kleinman Center for Energy Policy, Weitzman School of Design

Danny Cullenward is a climate economist and lawyer focused on the design and implementation of scientifically grounded climate policy. His book, *Making Climate Policy Work* (with David G. Victor), shows how political forces make green industrial policy more effective than carbon pricing.

Media contact: Lindsey Samahon, lsamahon@upenn.edu, 215-898-5900
Keywords: **economics** **policy** **law**

• Henry Daniell

Professor, School of Dental Medicine

Inspired by issues of health care inequity and global human rights, Henry Daniell has developed and advanced a novel plant-based platform for producing and delivering affordable biopharmaceuticals, eliminating expensive injections and refrigeration, reducing the carbon footprint and improving access.

Media contact: Beth Adams, adamsnb@upenn.edu, 215-573-8224
Keywords: **health**

• Zhengxia Dou

Professor, Agricultural Systems, School of Veterinary Medicine

Zhengxia Dou investigates the crop-dairy cow interface to minimize waste and increase food system efficiency, addressing food waste upcycling through animal feeding, natural resource issues, on-farm financial sustainability issues, water quality issues, and the reduction of the carbon/nitrogen footprint on farms.

Media Contact: Martin Hackett, mhackett@vet.upenn.edu

Keywords: **agriculture** **water**

• Julie Ellis

Adjunct Associate Professor, Pathobiology, School of Veterinary Medicine

Julie Ellis' expertise is in wildlife ecology and conservation, implementing proactive approaches to wildlife health, and transdisciplinary problem-solving to enhance One Health.

Media contact: Brooke Ezzo, brookeez@vet.upenn.edu

Keywords: **wildlife** **health** **conservation**

• FactCheck.org/SciCheck

Nonpartisan fact-checking organization, Annenberg Public Policy Center.

Founded in 2003, FactCheck.org is a nonpartisan, nonprofit fact-checking organization whose SciCheck program specializes in examining false and misleading scientific claims made by partisans to influence public policy, as well as viral claims on social media.
Under FactCheck.org director Eugene Kiely and science editor Jessica McDonald, the award-winning website has examined health and science claims about electric vehicles, climate change, wildfires, vaccination, and COVID-19, among other topics.

Media contact: Eugene Kiely, eugene.kiely@factcheck.org, 215-898-2372

Keywords: **misinformation** **communication**

• Zahra Fakhraai

Professor, Chemistry, School of Arts & Sciences

Zahra Fakhraai studies the behavior of materials on surfaces, interfaces, and small-length scales to understand their properties in such technological applications as organic electronics. The knowledge gained from the Fakhraai group's fundamental focus is applied to create novel materials for capturing solar energy. The Fakhraai group designs and synthesizes gold nanoparticles for various applications, including solar energy storage.

Media contact: Michele Berger, mwberger@sas.upenn.edu, 215-573-4981

Keywords: **energy** **chemistry** **solar**

• Emily Falk

Professor, Annenberg School for Communication

Emily Falk uses the tools of neuroscience and social psychology to examine how the brain processes information and ideas spread. She is currently testing different strategies to determine what changes beliefs about climate change and motivates them to take action.

Media contact: Mandira Banerjee, mandirab@upenn.edu, 215-746-1798

Keywords: **communication** **psychology**

• Jared Farmer

Professor, History, School of Arts & Sciences

Jared Farmer studies the histories of built and unbuilt environments from the hyperlocal to the planetary. His most recent book is *Elderflora: A Modern History of Ancient Trees,* a story of "the planet's oldest trees and the making of the modern world."

Media contact: Michele Berger, mwberger@sas.upenn.edu, 215-573-4981

Keywords: **built environment** **global**

• Julian Fisher

Director, Oral and Planetary Health Policies, School of Dental Medicine

Julian Fisher studies planetary health and human health in all policies, and social determinants of health equity, and global oral health. He has contributed to World Health Organization technical meetings and publications, most recently the WHO book "Integrating the social determinants of health into health workforce education and training."

Media contact: Beth Adams, adamsnb@upenn.edu, 215-573-8224

Keywords: **health** **global**

• Billy Fleming

Director, McHarg Center for Urbanism & Ecology, Weitzman School of Design

Billy Fleming studies the design and policy decisions that have shaped, or will shape, coastal areas and other communities vulnerable to the effects of a changing climate. Outside of Penn, he co-directs the climate + community project (ccp), which works to connect the demands of the climate-justice movement to the policy-development process public housing, public schools, public transportation, public power, public land, and public works.

Media contact: Michael Grant, mrgrant@design.upenn.edu, 215-898-2539

Keywords: **built environment** **environmental justice**

• Joseph Francisco

Professor, Earth and Environmental Science, School of Arts & Sciences

Joseph Francisco is an atmospheric chemist who uses new computational tools of physical chemistry to bring deep insight into the underlying chemistry of the atmosphere. This work has a role to play in combatting climate change, from investigating how the release of chemicals affects the ozone layer and the warming planet to the chemistry of the human body.

Media contact: Michele Berger, mwberger@sas.upenn.edu, 215-573-4981

Keywords: **climate** **chemistry**

• Erick Gagne

Assistant Professor, Wildlife Disease Ecology, School of Veterinary Medicine

Erick Gagne studies chronic wasting disease ecology and diagnostic development, SARS-CoV-2 in deer populations, and the effects of viruses on bird populations.

Media contact: Brooke Ezzo, brookeez@vet.upenn.edu

Keywords: **wildlife** **health**

• Daniel Garrett

Assistant Professor, Finance, Wharton School

Daniel Garrett's research includes public finance, financial intermediation, corporate finance, and taxation. Recent research projects study the financial cost of anti-ESG policies and ESG bonds, public investment, and inequality.

Media contact: Wharton Media Relations, communications@wharton.upenn.edu

Keywords: **economics** **ESG**

• Karen Goldberg

Professor, Energy Research, School of Arts & Sciences

Director, Vagelos Institute of Energy Science and Technology

Karen Goldberg studies catalyst-dependent reactions with the potential to create biofuels from biomass feed stocks like natural gas and CO_2. By improving the efficiency of these reactions, the Goldberg group aims to eliminate the world's reliance on fossil fuels and, instead, produce valuable chemicals and fuels from a range of feedstocks.

Media contact: Michele Berger, mwberger@sas.upenn.edu, 215-573-4981

Keywords: **agriculture** **chemistry**

• Lei Gu

Assistant Professor, Electrical and Systems Engineering, School of Engineering and Applied Science

Lei Gu studies power electronics systems' efficiency, size, and performance for various energy conversion applications. His research explores new materials and techniques for designing miniaturized high-performance power electronics.

Media contact: Holly Wojcik, hwojcik@seas.upenn.edu, 215-573-4607

Keywords: **energy** **engineering**

• Erick Guerra

Associate Professor, City & Regional Planning, Weitzman School of Design

Erick Guerra studies transportation, land use, and travel behavior; transportation in developing cities; the intersections of transportation and technology; and transportation and public health.

Media contact: Michael Grant, mrgrant@design.upenn.edu, 215-898-2539

Keywords: **built environment** **transportation** **health**

• Femida Handy

Professor, School of Social Policy & Practice

Femida Handy's research focuses on the nonprofit sector as well as environmental issues. She has written a children's book about ecological footprints, and her research includes a BSF-funded project about intergenerational transmission of environmental motives and behaviors in a cross-country comparison of the U.S., Israel, and Korea.

Media contact: Juliana Rosati, jrosati@upenn.edu, 215-573-8408

Keywords: **policy** **global**

• Jon Hawkings

Assistant Professor, Earth and Environmental Science, School of Arts & Sciences

Jon Hawkings is a biogeochemist with a broad interest in the cycling of elements through the Earth system. His current research focuses on the role of glacial meltwater in downstream biogeochemical cycles and in the potential of meltwater to influence the structure and productivity of ecosystems, subglacial biogeochemical weathering processes, and the mobilization of nutrients and toxic elements in freshwater environments.

Media contact: Michele Berger, mwberger@sas.upenn.edu, 215-573-4981

Keywords: **earth science** **biology** **water**

• Mirko Heinle

Associate Professor, Accounting, Wharton School

Mirko Heinle studies accounting disclosure in capital markets, the regulatory process of such disclosure, and internal capital allocation. Current research includes the disclosure of risk related information, effect of regulatory uniformity on lobbying incentives, cost and sources of debt for companies with poor ESG performance, and optimal allocation of non-monetary resources.

Media contact: Wharton Media Relations, communications@wharton.upenn.edu

Keywords: **economics** **ESG** **policy**

• Witold Henisz

Professor, Management, Wharton School

Faculty Director, ESG Initiative

Witold Henisz examines the impact of political hazards as well as ESG factors more broadly on the strategy and valuation of global corporations. His most recent work focuses on the application of alternative data to the measurement of non-traditional political and ESG risks and opportunities and their financial and operational impact on multinational firms as well as the performance of the asset managers who invest in them.

Media contact: Wharton Media Relations, communications@wharton.upenn.edu

Keywords: **ESG** **policy**

• Marilyn Howarth

Senior Fellow, Center for Public Health Initiatives, Perelman School of Medicine

Marilyn Howarth studies occupational and environmental exposure assessment and community exposure assessment.

Media contact: Kelsey Geesler, Kelsey.geesler@pennmedicine.upenn.edu

Keywords: **health**

• Kathleen Hall Jamieson

Professor, Annenberg School for Communication
Director, Annenberg Public Policy Center
Co-Founder, FactCheck.org

Kathleen Hall Jamieson researches science communication, trust in science, and the effects of mis- and disinformation and how these may be countered. She co-chaired an American Academy of Arts & Sciences working group that wrote Proven Principles of Effective Climate Change Communication and has identified a message structure experimentally shown to overcome misled inferences about climate trend data.

Media contact: Michael Rozansky, michael.rozansky@appc.upenn.edu, 215-746-0202

Keywords: **communication** **misinformation**

• Douglas Jerolmack

Professor, Earth and Environmental Science, School of Arts & Sciences
Professor, Mechanical Engineering and Applied Mechanics, School of Engineering and Applied Science

Douglas Jerolmack examines how landscapes respond to environmental and climate change, by combining fluid and material physics with earth science. Examples include the response of rivers to increased flooding, how wildfire increases landslide and mudflow risk, and the consequences of sea level rise on coastal erosion and deposition.

Media contact: Michele Berger, mwberger@sas.upenn.edu, 215-573-4981

Keywords: **physics** **earth science**

• Cherie Kagan

Professor, Electrical and Systems Engineering and Materials Science and Engineering, School of engineering and Applied Science

Cherie Kagan studies the chemical and physical properties of nanostructured materials and in integrating materials with optical, electrical, magnetic, mechanical, and thermal properties for (multi-) functional devices.

Media contact: Holly Wojcik, hwojcik@seas.upenn.edu, 215-573-4607

Keywords: **engineering** **chemistry**

• Benjamin Keys

Professor, Real Estate, Finance, Wharton School

Benjamin Keys researches household finance, real estate, applied econometrics, labor economics, and urban economics and also how increasing homeowner's insurance costs due to climate change are affecting housing markets.

Media contact: Wharton Media Relations, communications@wharton.upenn.edu

Keywords: **economics** **built environment**

• Sameed Khatana

Assistant Professor, Cardiovascular Medicine, Perelman School of Medicine

Sameed Khatana recently published a paper on climate change and its impacts on the heart.

Media contact: Matt Toal, matt.toal@pennmedicine.upenn.edu

Keywords: **health**

• Dohyung Kim

Assistant Professor, Chemical and Biomolecular Engineering, School of Engineering and Applied Science

Dohyung Kim studies fundamental insights and improving the properties of electrochemical surfaces and interfaces for advanced designs of electrochemical systems and processes applicable for sustainable energy conversion, chemical catalysis, and materials manufacturing, with potential applications including water splitting, fuel cells, CO2 reduction to fuels and chemicals, and biomass reforming.

Media contact: Holly Wojcik, hwojcik@seas.upenn.edu, 215-573-4607

Keywords: **engineering** **chemistry**

• Allison Lassiter

Assistant Professor, City and Regional Planning, Weitzman School of Design

Allison Lassiter develops transformative methods for managing urban water resources in the context of climate change, from watershed-based approaches to "smart water" technologies. She is evaluating the threat sea level rise poses to drinking water systems, prospective adaptation alternatives, and tools for improving uptake and implementation of alternatives.

Media contact: Michael Grant, mrgrant@design.upenn.edu, 215-898-2539

Keywords: **built environment** **water**

• Benjamin C. Lee

Professor, Computer and Information Science, Electrical and Systems Engineering, School of Engineering and Applied Science

Benjamin Lee works on environmentally sustainable computing, focusing on energy and carbon costs of manufacturing and operating large computer systems such as datacenters for

artificial intelligence. He and his team study growth in AI workloads, energy and carbon trends, and sustainability strategies as well as how data centers should coordinate investment in renewable energy, investment in energy storage, and job scheduling to reduce its carbon intensity.

Media contact: Holly Wojcik, hwojcik@seas.upenn.edu, 215-573-4607
Keywords: **computer science** **AI** **engineering**

• Sarah E. Light

Professor, Legal Studies & Business Ethics, Wharton School
Faculty Co-Director, Wharton Climate Center

Sarah Light's research examines environmental law, corporate sustainability, and business innovation, addressing the ways in which laws that structure corporations and the marketplace should be considered forms of environmental law; how private actions by business firms, such as the adoption of a private carbon fee, or lending and underwriting decisions by banks and insurance companies, can be forms of private environmental governance; and how to address concerns about greenwashing consistent with the First Amendment.

Media contact: Wharton Media Relations, communications@wharton.upenn.edu
Keywords: **economics** **policy** **law** **ESG**

• Lauren Lutzke

Faculty Fellow, Kleinman Center for Energy Policy, Weitzman School of Design

Lauren Lutzke studies judgments and decisions people make in relation to the issue of climate change. Her work has examined interventions for preventing the spread of climate misinformation online, public perceptions and acceptance of new climate technology, and communication strategies for conveying climate policy information on Twitter/X.

Media contact: Lindsey Samahon, lsamahon@upenn.edu, 215-898-5900
Keywords: **psychology** **communication** **misinformation**

• Chenyi Ma

Research Assistant Professor, School of Social Policy & Practice

Chenyi Ma studies disaster-risk reduction and sustainable development. He explores social determinants of health and behavioral outcomes in disaster contexts, social vulnerability in disaster preparedness, risk analysis in disaster-mitigation policy formulation, and philanthropic behavior in response to disaster survivors.

Media contact: Juliana Rosati, jrosati@upenn.edu, 215-573-8408
Keywords: **health** **built environment** **policy**

• Thomas Mallouk

Professor, Energy Research, School of Arts & Sciences

Thomas Mallouk addresses challenges in materials chemistry that are feeding new ways of thinking about the storage and use of electricity. His group develops new kinds of nanomaterials that lead to more efficient and less expensive solar energy conversion devices,

including nanostructures that trap visible light or redirect infrared light to control the flow of light in solar cells. His group also creates layered inorganic materials for a variety of energy harvesting and transferring applications.

Media contact: Michele Berger, mwberger@sas.upenn.edu, 215-573-4981
Keywords: **chemistry** **energy** **solar**

• Michael E. Mann

Professor, Earth and Environmental Science, School of Arts & Sciences
Director, Penn Center for Science, Sustainability, and the Media

Michael Mann studies climate science and climate change. He is co-founder of RealClimate.org and the author of six books: *Dire Predictions, The Hockey Stick and the Climate Wars, The Madhouse Effect, The Tantrum that Saved the World*, *The New Climate War* and *Our Fragile Moment*.

Media contact: Heather Kostick, hkostick@upenn.edu
Keywords: **climate** **communication** **health**

• Frank Matero

Professor, Historic Preservation, Weitzman School of Design
Director, Center for Architectural Conservation

Frank Matero focuses on the historical and material investigation of architectural technology and the implications of this approach for the interpretation and conservation of built heritage. He has expertise on masonry and earthen construction, the conservation of archaeological sites, and issues related to preservation and appropriate technology for traditional societies and places. His is developing a framework for material and site risk and vulnerability related to climate change, including work with the National Park Service.

Media contact: Michael Grant, mrgrant@design.upenn.edu, 215-898-2539
Keywords: **built environment** **archaeology**

• Samantha McBride

Assistant Professor, Mechanical Engineering and Applied Mechanics, School of Engineering and Applied Science

Samantha McBride's expertise is in nanoscale engineering, interfacial phenomena, and small-scale fluid physics for problems in energy and the environment. She specializes in water treatment, including resource recovery from wastewater and desalination technologies.

Media contact: Holly Wojcik, hwojcik@seas.upenn.edu, 215-573-4607
Keywords: **engineering** **physics** **water**

• Kathleen Morrison

Professor, Anthropology, School of Arts & Sciences
Faculty Director, Penn Environmental Innovations Initiative

Kathleen Morrison's research focuses on the historical ecology of southern Asia, especially changes in agriculture, land use, and environment, integrating approaches from archaeology, history, and environmental science. Current projects include work on the long-term relationships between biodiversity and human land use and a "big data" project using archaeological, historical, and paleoenvironmental evidence to improve climate models.

Media contact: Michele Berger, mwberger@sas.upenn.edu, 215-573-4981

Keywords: **agriculture** **built environment** **global** **ecology** **archaeology**

• Lisa Murphy

Professor, Toxicology, School of Veterinary Medicine

Lisa Murphy studies toxicology, animal decontamination, anticoagulant rodenticides, emerging toxicants, and freshwater algal toxins.

Media contact: Brooke Ezzo, brookeez@vet.upenn.edu

Keywords: **wildlife** **health** **agriculture**

• Serguei Netessine

Professor, Innovation and Entrepreneurship, Operations, Information and Decisions, Wharton School

Serguei Netessine leverages data-driven metrics to identify optimal locations for renewable energy-generation sites, in particular wind energy. Additional research focuses on business-model innovation and operational excellence.

Media contact: Wharton Media Relations, communications@wharton.upenn.edu

Keywords: **energy** **wind**

• Howard Neukrug

Professor of Practice, Earth and Environmental Science, School of Arts & Sciences
Executive Director, Water Center at Penn

Howard Neukrug is the former commissioner and CEO of Philadelphia Water. He is a national expert and lecturer on moving from innovation to implementation; integrated urban water systems; river management; utility operations; water policy; drinking water quality and treatment; and green infrastructure.

Media contact: Brenton McCloskey, brentonm@sas.upenn.edu

Keywords: **built environment** **policy** **water**

• Kevin Niedringhaus

Assistant Professor, Wildlife Pathology, School of Veterinary Medicine

Kevin Niedringhaus is an expert in the identification, description, and diagnostics of novel, emerging, and transboundary diseases of free-ranging wildlife.

Media contact: Brooke Ezzo, brookeez@vet.upenn.edu

Keywords: **wildlife** **health**

• Eric Orts

Professor, Legal Studies & Business Ethics, Management, Wharton School

Eric Orts studies corporate governance, environmental law and policy, environmental management, professional ethics, securities regulation, democratic theory, constitutional law, theories of the firm, and business theory.

Media contact: Wharton Media Relations, communications@wharton.upenn.edu

Keywords: **ESG** **policy** **law**

• Chinedum Osuji

Professor, Chemical and Biomolecular Engineering, School of Engineering and Applied Science

Chinedum Osuji conducts experimental research on precisely structured membranes to reduce the energy footprint of water purification and chemical separations. He and his team develop new materials and elucidates the fundamental basis of their performance. Areas of interest include low-cost water purification and resource recovery by nanofiltration, ion transport in electrochemical devices such as batteries and fuel cells, and chemical separations in organic solvents.

Media contact: Holly Wojcik, hwojcik@seas.upenn.edu, 215-573-4607

Keywords: **engineering** **chemistry**

• R. Jisung Park

Assistant Professor, School of Social Policy & Practice

Faculty Fellow, Kleinman Center for Energy Policy, Weitzman School of Design

R. Jisung Park is an environmental and labor economist. His research examines the implications of environmental change in areas such as education and the workforce. His new book, *Slow Burn: The Hidden Costs of a Warming World*, is due out from Princeton University Press in April.

Media contact: Juliana Rosati, jrosati@upenn.edu, 215-573-8408

Keywords: **economics** **policy**

• Trevor M. Penning

Professor, Systems Pharmacology & Translational Therapeutics, Perelman School of Medicine

Director, Center of Excellence in Environmental Toxicology (CEET)

CEET elucidates the mechanistic link between environmental exposures and human disease and translates its findings into action to improve the health of vulnerable individuals and local, national, and global communities.

Media contact: Jennifer Kuklinski, jkuklins@pennmedicine.upenn.edu, 215-746-3031

Keywords: **health**

• Nicholas Pevzner

Assistant Professor, Landscape Architecture, Weitzman School of Design
Faculty Fellow, Kleinman Center for Energy Policy, Weitzman School of Design

Nicholas Pevzner is co-editor-in-chief of *Scenario Journal*, an online publication showcasing and facilitating the emerging interdisciplinary conversations between landscape architecture, urban design, engineering, and ecology. He studies public and civic potential of infrastructure and the integration of urban ecological systems and their metrics into design methodology.

Media contact: Lindsey Samahon, lsamahon@upenn.edu, 215-898-5900
Keywords: **built environment**

• Jennifer Pinto-Martin

Professor, Nursing, School of Nursing

Jennifer Pinto-Martin researches the mental health sequelae of climate change and climate disaster on youth, and she has collected preliminary data from the Galapagos Islands and Eastwick, Pa. She is part of the Rockefeller Foundation's 17 Rooms Initiative focused on the residents of an urban heat island in Santiago, Chile and the resulting impact on health and well-being. She recently led an interdisciplinary team at Penn on a grant submission to NIH entitled The REACH Center: Resilient futures through Equity, Action and Communication for Climate Health, which is currently under review.

Media Contact: Ed Federico, efed@nursing.upenn.edu, 215-746-3562
Keywords: **health** **global**

• Dipti Pitta

Associate Professor, Ruminant Nutrition, School of Veterinary Medicine

Ruminants are the largest source of methane emissions in the United States and therefore developing innovative mitigation strategies to reduce enteric methane formation is one of the primary areas of Dipti Pitta's research. She investigates the role of gut microbiota to improve the health, well-being, and productivity of dairy cattle in a sustainable manner.

Media Contact: Martin Hackett, mhackett@vet.upenn.edu
Keywords: **agriculture**

• Leandro S. Pongeluppe

Assistant Professor, Management, Wharton School

Leandro Pongeluppe researches stakeholder management and socioeconomic development. Particularly, he is interested in how organizations' design and governance affect the achievement of the United Nations' Sustainable Development Goals.
Current research projects span developing a tool kit to identify greenwashing practices in Fortune 500 companies, to stakeholder interests in the Amazon rainforest, and African HIV/AIDS treatment clinics.

Media contact: Wharton Media Relations, communications@wharton.upenn.edu
Keywords: **ESG** **economics** **global**

• Peter Psarras

Research Assistant Professor, Chemical and Biomolecular Engineering, School of Engineering and Applied Science

Peter Psarras' research focuses on direct air capture, techno-economic assessment, life cycle analysis, carbon mineralization, geographic information systems mapping for responsible deployment of carbon management, carbon capture, utilization and storage.

Media contact: Holly Wojcik, hwojcik@seas.upenn.edu, 215-573-4607

Keywords: **chemistry** **engineering** **energy**

• John Quigley

Senior Fellow, Kleinman Center for Energy Policy, Weitzman School of Design

John Quigley was the founding director of the Center for Environment, Energy & Economy and Lecturer in Sustainability at the Harrisburg University of Science and Technology, served as secretary of the Pennsylvania Department of Environmental Protection in 2015-16, and served as secretary of the Pennsylvania Department of Conservation and Natural Resources in 2009-11.

Media contact: Lindsey Samahon, lsamahon@upenn.edu, 215-898-5900

Keywords: **energy** **conservation** **policy**

• Simon Richter

Professor, German, School of Arts & Sciences

Simon Richter's research focuses on cultural aspects of the climate emergency, especially resilience, adaptation, and sustainability in Germany, Indonesia, the Netherlands, and the U.S. As an environmental humanist, he engages in activities that blur distinctions between traditional scholarship, urban design, and environmental activism. Professor Richter co-directs the Penn Animation as Research Lab, which collaborates with experts in the sciences and humanities to produce animated artworks that communicate emerging research related to climate change and the environment.

Media contact: Michele Berger, mwberger@sas.upenn.edu, 215-573-4981

Keywords: **climate** **global**

• Megan S. Ryerson

Professor, City & Regional Planning, Weitzman School of Design
Professor, Electrical and Systems Engineering, School of Engineering and Applied Science
Director, Center for Safe Mobility

Megan Ryerson has studied the economics and environmental impact of aviation, air traffic safety and airport sustainability, and transportation safety and equity, including bike lanes and electric and autonomous vehicles.

Media contact: Michael Grant, mrgrant@design.upenn.edu, 215-898-2539

Keywords: **built environment** **economics** **transportation**

● Sandra Schafhäutle

Assistant Professor, Accounting, Wharton School

Sandra (Gabriele) Schafhäutle studies the use of information in capital markets, corporate disclosure, and transparency and disclosure incentives as well as the intersection of accounting and environmental economics. She is currently researching the effects of local environmental regulations on the disclosure decisions and real behaviors of firms at various points in the supply chain.

Media contact: Wharton Media Relations, communications@wharton.upenn.edu

Keywords: **economics** **policy**

● Eric Schelter

Professor, Chemistry, School of Arts & Sciences

Eric Schelter specializes in the inorganic synthesis of rare earth elements. His work includes exploring reactions that may help mitigate the release of methane into the atmosphere and could lead to a readily available carbon source for sustainable energy. The Schelter lab has also dedicated much brainpower to establishing a way to recycle rare earth elements, which are vital to technological advancements but are difficult to mine without causing environmental harm.

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Keywords: **chemistry** **energy**

● Benjamin Schmitt

Senior Fellow, Kleinman Center for Energy Policy, Weitzman School of Design

Benjamin Schmitt studies European energy security, transatlantic national security, export control policies, and modern sanctions regimes. Schmitt is a term member of the Council on Foreign Relations. Previously, he was European energy security advisor at the U.S. Department of State, where he advanced diplomatic engagement vital to the energy and national security interests of the transatlantic community, with a focus on supporting the resilience of NATO's eastern flank and Ukraine in the face of Russian malign energy activities.

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Keywords: **energy** **global**

● Catherine Seavitt

Professor, Landscape Architecture, Weitzman School of Design

Co-Executive Director, McHarg Center for Urbanism & Ecology

Catherine Seavitt examines the entanglement of public space and public health through the lens of ecology, policy, and novel plant science. She studies urban landscapes, post-industrial sites, toxicity, and inventive plant knowledge, with a focus on actionable responses to the climate crisis and decarbonization. She serves as a member of the U.S. Army Corps of Engineers' Environmental Advisory Board.

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Keywords: **built environment**

• Frederick (Fritz) Steiner

Dean, Stuart Weitzman School of Design
Co-Executive Director, McHarg Center for Urbanism & Ecology

Fritz Steiner is an authority on ecological design, a science-based framework for designers, planners, and developers to strengthen natural systems rather than degrade them. His most recent book looks at how America's 13 megaregions (linked networks of metropolitan areas and their hinterlands) can strengthen climate resilience, natural resource management, and equity. He helped establish the Sustainable SITES Initiative, a systematic, comprehensive rating system designed to define sustainable land development and management.

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Keywords: **built environment** **ecology**

• Luke Taylor

Professor, Finance, Wharton School
Co-Director, White Center for Financial Research

Luke Taylor studies corporate finance, climate finance, sustainable investing, corporate governance, entrepreneurship, financial fragility and crises, learning, and portfolio management. His recent research looks at green returns and green tilts.

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Keywords: **economics** **policy**

• Arthur van Benthem

Associate Professor, Business Economics and Public Policy, Wharton School
Faculty Co-Director, Wharton Climate Center
Senior Fellow, Kleinman Center for Energy Policy, Weitzman School of Design

Arthur van Benthem studies environmental and energy economics. His recent work looks at the unintended consequences of environmental legislation and the economic efficiency of energy policies. He researches markets for transportation, renewable energy, and oil and gas.

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Keywords: **economics** **policy** **transportation** **law**

• Steve Viscelli

Senior Fellow, Kleinman Center for Energy Policy, Weitzman School of Design
Associate Professor of Practice, Sociology, School of Arts & Sciences

Steve Viscelli focuses on work, labor market economics, and economic regulation. In 2023, he was appointed to the Truck Leasing Task Force (TLTF) by Secretary of Transportation Pete Buttigieg. He is known for his book *The Big Rig: Trucking and the Decline of the American Dream*.

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Keywords: **economics** **transportation**

• John Vohs

Professor, Chemical and Biomolecular Engineering, School of Engineering and Applied Science

John Vohs' research program focuses on the synthesis of novel catalytic materials for use in a range of energy-conversion technologies. He's currently working on the development of catalysts for use in fuel and electrolysis cells and for the upcycling of waste polymers.

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Keywords: **chemistry** **engineering** **energy**

• Doris Wagner

Professor, Biology, School of Arts & Sciences

Doris Wagner focuses on the developmental transition to reproduction in plants. In particular, she is interested in how plant cells are reprogrammed to form flowers or to protect themselves from detrimental effects of changing environments. She examines how environmental cues like light, temperature, or drought trigger molecular cascades that drive plant behavior. To study such questions, she uses genetic, epigenomic, computational, molecular, spatial transcriptomics, biochemical, and synthetic biology approaches.

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Keywords: **biology**

• Michael Weisberg

Professor, Philosophy, School of Arts & Sciences

Michael Weisberg is a philosopher of science and director of the Galápagos Education and Research Alliance, which aims to support Galápagos communities in protecting biodiversity, building resilience against climate change, and promoting the health of humans and non-humans. He is also a senior negotiator at United Nations Climate Conferences, a senior adviser to the Maldivian Minister of Environment, and a contributing author to the Intergovernmental Panel on Climate Change's *Sixth Assessment Report.*

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Keywords: **global** **climate** **policy**

• Shelley Welton

Professor, Law and Energy Policy, Penn Carey Law

Shelley Welton teaches environmental law and a climate change law seminar. She also teaches Introduction to Energy Policy, a university-wide graduate course, for the Kleinman Center on Energy Policy.

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Keywords: **policy** **law**

● Jennifer Wilcox

Professor, Chemical and Biomolecular Engineering, School of Engineering and Applied Science

Jennifer Wilcox's research takes aim at the nexus of energy and the environment, developing both mitigation and adaptation strategies to minimize negative climate impacts associated with society's dependence on fossil fuels.

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Keywords: **engineering** **climate**

● Shu Yang

Professor, Chemical and Biomolecular Engineering, Materials Science and Engineering, School of Engineering and Applied Science

Shu Yang designs and fabricates lightweight, high strength materials to reduce waste, environmentally responsive materials for natural restoration, and porous materials to capture moisture and CO2. She and her team investigate strategies to reduce energy consumption in wood-drying, food drying and buildings through innovations in desiccant-coated heat exchangers. She also works with designers and architects to 3D print carbon storage concrete for carbon neutrality in the buildings.

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Keywords: **engineering** **built environment**