

Apostolis (Paul) Sambanis

EDUCATION

Ph.D. Public Health, 2016, University of Illinois at Chicago
M.S. Public Health, 2012, University of Illinois at Chicago
B.S. Earth and Environmental Science, 2007, University of Illinois at Chicago

EMPLOYMENT

Vice President of Sustainability, Sloan, November 2022-Present

- Developing and implementing strategies for achieving global sustainability goals throughout the enterprise.
- Defining, standardizing, and tracking the progress of global sustainability goals and milestones.
- Creating new concepts or methods related to environmental matters to improve environmental performance and compliance.
- Creating and managing all resources to support sustainability programs as needed (e.g., budget, agency support, team support, etc.).
- Develop a Corporate Environmental, Social, and governance (ESG) report that illustrates sustainability success and supports the validation of claims and progress toward goals.
- Development and leading corporate GHG emission reduction programs.
- Co-developing a marketing strategy for communication of Sloan's Global Sustainability Program. Partnering with Sloan's New Product Development Team to advocate for clean-tech design, design for the environment, and Life Cycle Assessments.
- Building and help implement a strategy for greening Sloan's operations, supply chain, and partners. Create, implement, and manage the Sloan sustainability teams.
- Company liaison for the United States Green Building Council, International WELL Building Institute, and other company-supported sustainable and wellness organizations.
- Identifying and participating in critical local & national sustainability & wellness groups, conferences, networking opportunities, and customer opportunities.
- Providing LEED and WELL guidance for internal and external stakeholders

Adjunct Assistant Professor, University of Illinois at Chicago, January 2012 – Present

- Conducting lectures and preparing the material for graduate students for the following courses: Foundation of Emergency Management, Decision Support Systems, Resilience, Critical Infrastructure, Strategic Planning, and Disaster Management.
- Researching on different subjects related to emergency management, resilience, climate change, environmental justice, risk assessment/visualization, and decision support systems.
- Principal investigator and project manager for Building Resilience Against Climate Change (BRACE), HUD Technical Study, Illinois Community Development Block Grant, and other grant programs.
- Conducting managerial and administrative duties, including, but not limited to, correcting papers and homework, tutoring, and submitting grades. Guiding students for developing their careers and familiarizing them with different career opportunities.

Non-Executive Board Member, GPost Corporation America, May 2020 – October 2024

- Introducing the GPost platform to local, state, and federal emergency management agencies, private sector risk management groups, and non-profit associations/organizations.
- Technical Advisor for GPost leadership in best practices while navigating private sector industry and community.
- Guiding the development of training manuals and long-term strategic improvements.

North America Sustainability & Environment Manager, Henkel Corporation, Elgin, IL Nov.2016 – Nov.2022

- Develop and Implement Global Sustainability targets into Regional Programs & Goals
- Support Regional & Site management in Sustainability program implementation, incl. Sustainability Ambassador program

- Competences development on Sustainability professional expertise (such as workshops, best practice sharing)
- Define, standardize, and track the progress of sites to ensure timely and correct sustainability reporting
- Coordinate Regional Sustainability Scorecards/ Greenhouse Gas (GHG) Emission Reduction Projects and investment reviews and provide technical expertise for project sustainability assessments.
- Support Regional SHE Projects: function as Sustainability/Environmental counterpart for major investments/projects, ensure correct processes for site decommissioning and divestment, assist in due diligence and M&A integration
- Support sites in ensuring compliance with Environmental permits/regulations, incl. remediation
- Lead Regional Sustainability Management Review, incl. risk & opportunity management
- Led a task force to implement a corporate Environmental, Social, & Governance (ESG) procedure and reporting program to support authentication and progress toward regulatory requirements and goals.
- Support Global/Site Energy and Environmental Management systems and Energy Efficiency programs
- Drive local sustainability community projects, engaging with media and developing communications to external and internal stakeholders.
- Working with the local management team to drive and improve health and safety standards to meet ISO 9001, 14001, 45001, and 50001 standards

Interim HSE Manager, UOP, LLC (a subsidiary of Honeywell), Des Plaines, IL, July 2013 – Nov. 2016

- Overseeing audit and inspection process for RC14001 certification and the HSE management system, which includes but is not limited to shared incident learning, tracking training, and development/implementation of HSE procedures to ensure compliance with corporate, local, state, and national policies and regulations
- Maintenance of the HSE into HOS and Safety Management System (SMS) website, metrics, and reporting to drive culture change that would facilitate HS&E Excellence
- Training approximately 660 employees and contractors on HSE and Sustainability requirements and closing gaps through the use of employee-led training safety improvement team
- Lead significant safety incident investigations and root cause analyses
- Advises senior management on associated risks, risk management, and abatement approaches.
- Manages the HSE Department, overseeing work and staff allocation and responsibilities, mentoring, and developing the administrative staff as well as embedded onsite contractors in research laboratory and pilot plant setting
- Co-leader of the Emergency Response Team, which includes preparing for natural, chemical release, and fire scenarios

Regulatory Administrator, True Value Company, Chicago, IL, November 2011- July 2013

- Consult with regulatory departments within the vendor community to ensure we proactively address product regulatory compliance issues and establish vendor compliance standards, including, but not limited to, sustainability claims (e.g., LEED certification, etc.).
- Evaluating current and proposed codes, standards, regulations, and guidelines to determine the impact on current and future programs and activities, staying abreast of federal, local, and state regulation changes
- Performing ongoing audits of regulated product stock-keeping units to establish and maintain satisfactory levels of compliance; establishing a protocol to proactively oversee out-of-compliance issues, including but not limited to maintaining sustainability claims (e.g., LEED certification, etc.)
- Assisting in the development of and delivery of training to associates as required by regulatory agencies
- Coordinating consistent communication efforts throughout the cooperative and its supplier, member, and customer communities

- Establishing effective and consistent procedures, policies, and operational guidelines with the Company's merchandising departments to manage regulatory risk, quality control and assurance

Project Geologist, Weaver Boos Consultants, Naperville, IL, July 2008-November 2011

- Evaluating worker exposure to silica, respirable dust, lead, VOCs, and PCBs
- Collected air, soil, and groundwater samples for volatile organic compound, semi-volatile organic compound, and metals analysis
- Using ArcGIS and other related geostatistical modeling software to create site maps, model groundwater elevation and flow, and hazardous contamination plumes
- Supervising and creating safety life critical and behavior based and emergency management programs for multiple large-scale remediation projects
- Engaging with a variety of customers by leading their initiatives to become climate-positive, reducing waste and water by implementing circularity projects
- Audit facilities for environmental, health, sustainability, and safety compliance
- Managing multiple project budgets and coordinating subcontractors

Staff Geologist, Environmental Resources Management, Rolling Meadows, IL, January 2007- July 2008

- Performed Phase I Environmental Site Assessments, which included historical record investigation, site visits to identify recognized environmental conditions, and preparing reports with findings
- Implementing Management Systems and ISO 14001 and 50001 programs for various Fortune 500 companies
- Develop, lead and implementing various Sustainability databases and initiatives to curtail energy, waste, and water reduction projects for a variety of private and public sector clients
- Develop decarbonization plans for large manufacturing facilities to identify significant energy users and implement technology solutions by determining the CAPEX and OPEX needed.
- Updating Title V Compliance for large oil refineries and introduced hazard analysis and life-critical programs

PRESENTATIONS/MEDIA APPEARANCES

Sambanis, A and Miranda, F. 2022. Visualizing Environmental Justice Issues in Urban Areas with a Community-based Approach. Green Building Initiative Green Globes Chicago Workshop.

Sambanis, A. 2022. Henkel's Climate-Positive Journey: From the Shop Floor to the C-Suite. Article in 3BL/Triple Pundit. National Media.

Sambanis, A. 2022. Making it Happen: Sustainability in Adhesives Production. Article in Yahoo Finance. National Media.

Sambanis, A., 2020. Will COVID-19 blood plasma treatments work, and how should we prepare for flu and COVID-19. Interview by Arirang Television - Global Insight. International Television.

Sambanis, A., 2019. 911 Systems unable to track some callers' locations. Interview by CNN. National Television.

Sambanis, A., Kim, S., Osiecki, K., and Cailas, M. 2017. *Thoughts on Social Vulnerability Indices and Opportunities for Improvement*, Population Association of America Annual Conference, Chicago, IL, April 27th-29th

Sambanis, A. 2017. *Look Before You Leap Panel Member*, RES/CON: The Global Resilience Summit, New Orleans, LA, March 7th-9th

Sambanis, A., Grossman E., and Dorevitch, S. 2015. *GIS method and the Social Vulnerability Index in Climate Change Vulnerability Assessment*, American Public Health Association Annual Meeting, Chicago, IL, November 2nd-4th.

Sambanis, A. 2009. *Assessment of Spatial Analysis and Decision Assistance (SADA) Potential for Clean Up*, United States Environmental Protection Agency National Brownfield Conference, New Orleans, LA, November 16-18th.

PUBLICATIONS

Arling, G., Blaser, M., Cailas, M., Canar, J. R., Cooper, B., Flax-Hatch, J., Geraci, P. J., Osiecki, K. M., & **Sambanis, A. (2021).** A Data Driven Approach for Prioritizing COVID-19 Vaccinations in the Midwestern United States. *Online Journal of Public Health Informatics*, 13(1).

- Grossman, E., Hathaway, M., Khan, A., **Sambanis, A.**, & Dorevitch, S. (2021). A Web-Based Interactive Map to Promote Health-Care Facility Flood Preparedness. *Disaster Medicine and Public Health Preparedness*, 1-4.
- Flax-Hatch, J., Srabanti, S., Miranda, F., **Sambanis, A.**, & Cailas, M. D. (2021). Visualizing Environmental Justice Issues in Urban Areas with a Community-based Approach. arXiv preprint arXiv:2112.06119.
- Osiecki, K. M., Quinsey, L., & **Sambanis, A.** (2020). Investigating Historical Hurricane Disaster Loss Data and Vulnerable Populations: Identifying the Most Impacted Census Tracts in the Houston Metropolitan Area. *Environmental Justice*.
- Sambanis, A.**, Flax-Hatch, J., Cooper, B., Roth, C., Geraci, P., & Osiecki, K. (2020). Midwest Comprehensive Visualization Dashboards: Prioritizing COVID-19 vaccinations.
- Sambanis, A.**, Kim, S., Osiecki, K., and Cailas, M. 2020. *Predictive Performance of Social Vulnerability and Resilience Indices*. In preparation for: Progress in Disaster Sciences.
- Arling, G. W., Blaser, M., Cailas, M. D., Canar, J. R., Cooper, B., Geraci, P. J., ... & **Sambanis, A.** (2020). A second wave of COVID-19 in Cook County: What lessons can be applied? Online journal of public health informatics, 12(2).
- Blaser, M., Cailas, M. D., Canar, J., Cooper, B., Geraci, P., Osiecki, K., & **Sambanis, A.** 2020. Analyzing COVID-19 Mortality Within the Chicagoland Area: Data Limitations and Solutions. Illinois PRC Research Brief NO. 117.
- Jones, C., **Sambanis, A.**, Kim, S., & Cailas, M. 2020. *Chemical facility risks to natural flooding hazards in the United States*. *Progress in Disaster Science*, 100105.
- Sambanis, A.**, Kim, S., Osiecki, K., and Cailas, M. 2019. *A New Approach to the Social Vulnerability Indices: Decision Tree-Based Vulnerability Classification Model*. Illinois PRC Research Brief NO. 114.
- Stumpf, M., **Sambanis, A.**, & Cailas, M. 2019. Utilizing HAZUS and PACER SURGE to map and characterize hospitals in Illinois within the New Madrid seismic zone. *Progress in Disaster Science*, 4, 100048.
- Wilbur, A., **Sambanis, A.**, Cailas, M. 2018. *Hazard Mitigation Plan Quality: The Need for Standardization in Measures of Effectiveness and Modeling Methods*. Under Review: Journal of Homeland Security and Emergency Management
- Jagai J, Grossman E, Navon L, **Sambanis A**, Dorevitch S, *Hospitalizations for heat-stress illness varies between rural and urban areas: an analysis of Illinois data, 1987–2014*, *Environmental Health*, 16(38), April 2017.
- Sambanis, A.**, 2016. *Critique of Current Social Vulnerability Indices and Opportunities for Improvement*. Doctor of Philosophy Dissertation.
- Sambanis, A.**, 2012. *Assessment of Spatial Analysis and Decision Assistance (SADA) Potential for Clean Up*. Master of Science Thesis.

SELECTED MEMBERSHIPS and AFFILIATIONS

American Public Health Association
Chicago Chapter Alliance of Hazardous Materials Professionals

TEACHING and CURRICULUM DESIGN

CURRICULUM DIRECTOR, EMCP (EOHS/SPH/UIC) CERTIFICATE PROGRAM

Upgrade of EMCP certificate program curriculum.

HPA 408 Decision Support Systems for Emergency Management and Resilience Planning, 2020-Present, University of Illinois at Chicago

HPA 575 Strategic Planning, 2016-Present, University of Illinois at Chicago

HPA 576 Disaster Response, 2016-Present, University of Illinois at Chicago

EOHS 572 Environmental Risk Management, 2013-2020, University of Illinois at Chicago

HPA466/MENG 406 Critical Infrastructure and Resource Protection, 2016-Present, University of Illinois at Chicago

HPA 407/MENG 405 Foundations of Emergency Management, 2017-Present, University of Illinois at Chicago

SADA course, Spring 2013, University of Illinois at Chicago
Co-Chairman of National Hazus Users Group - 2013

GRANTS AND SCHOLARSHIPS

Regional Catastrophic Preparedness Grant Program Private Sector Integration, Principal Investigator: Dr. David Ibrahim, Submitting Institution: University of Illinois at Chicago, \$100K, 1/12-12/12 (participant)
Building Resilience Against Climate Effects (BRACE), Principal Investigator: Dr. Samuel Dorevitch, Submitting Institution: University of Illinois at Chicago on behalf of Illinois Department of Public Health, \$500K, 1/13-12/16 (participant)
Alliance of Hazardous Materials Professionals - Chicago Chapter 2017 Environmental Scholarship Program \$1500 per student, 6/17-Present (two students have been awarded)
HUD Lead Technical Studies Program, Principal Investigator: Dr. Apostolis Sambanis, University of Illinois at Chicago, \$700K, 1/20-Present (principal investigator)
Department of Justice, 2 Million, 9/22-Present (Principal Investigator)

RESEARCH INTERESTS

Research is focused on quantitative, computational methods, particularly in geospatial and spatiotemporal modeling, emphasizing uncertainty, risk, and decision analysis. Areas of application include emergency management, environmental pollution, and regulatory compliance. Quantifying uncertainty and risk and understanding the implications for decision-making are recurring themes in the work.

CONTACT INFORMATION

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