

JENNIFER L. BAILEY

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PROFESSIONAL EXPERIENCE

Research Fellow

March 2019 - Present

Institute for Environmental Research & Sustainable Development, National Observatory of Athens, Greece

- Health focal point for projects focusing on air quality, urban growth and in relation to sustainable development
- A contributing member on the SMURBS/ERA-PLANET "SMart URBan Solutions for air quality, disasters and city growth" project team

Science-Policy Interface Consultant

August 2018 - December 2018

United Nations Environment Programme, North America Regional Office, Washington, D.C.

- Worked to strengthen UN Environment North America's engagement with the scientific community, particularly in the areas of integrated assessments, environmental data and information flows, and strategic partnerships
- Served as a Chapter Coordinator for the Sixth Global Environment Outlook (GEO-6), specifically overseeing the production of the Policy Outlooks chapters, helping to solve technical challenges and guide it to publication
- Planned and implemented a first convening of a regional science advisory group, which resulted in a summary report on the proceedings and recommendations for action for UN Environment's Senior Management Team
- Supported the continued planning of a Science-Policy-Business Forum through developing and implementation and outreach plan, coordinating substantive inputs from external partners, and other logistical support
- Experience working in an international environment, working between UN Environment offices, other UN agencies and global experts and scientists to achieve our work plan

Environmental Science Intern

January 2018 - July 2018

United Nations Environment Programme, North America Regional Office, Washington, D.C.

- Supported the development of a Science-Policy-Business Forum through performing research to inform the topic, management of tracking documents, and budget creation
- Worked directly under the Regional Coordinator of the Science Division supporting the coordination of the production of GEO-6
- Assist with governmental affairs efforts including outreach to governments, non-governmental organizations and academic institutions engaged in environmental issues, drafting of partnership agreements, and research and writing of regional political briefing materials

Research Assistant

June 2017 - January 2018

Scripps Institution of Oceanography, University of California, San Diego

- Conducted research and analysis on climate change health impacts and briefed stakeholders, including the California Department of Public Health and other state and county-level decision makers, to empower informed and scientifically sound policymaking
- Prepared research briefings for the County of San Diego's Health & Human Services Agency on the impact of heat waves on hospital admissions in San Diego, communicating scientific research to inform staff and aid in regionally specific action plans in response to heat waves and the identified at-risk and vulnerable populations
- Authored a policy brief on wildfires and smoke impact to air quality and human health across different populations in Southern California, looking at policy response options within the context of climate change

Consulting Scientist - Energy & Infrastructure Business Unit

February 2016 - January 2017

Haley & Aldrich, Inc.

- Lead consultant performing an airport-wide GHG inventory for 2014/2015 and applied for the Airport Carbon Accreditation program, resulting in Level 2 Accreditation from Airports Council International allowing the airport to become one of the first U.S. airports making annual commitments to track and reduce GHG emissions

- Charged with writing and quality assurance and control of the airport's Sustainability Report, which involved working within all departments to increase efficiency and ensure accountability to sustainability commitments

Staff Analyst - Environmental Affairs Department

November 2014 - February 2016

San Diego County Regional Airport Authority

- Developed a comprehensive annual report of the Authority's recycling & diversion efforts, served as key resource in the airport winning the City of San Diego's Recycler of the Year Award in 2015 & 2016
- Coordinated the Authority's clean transportation initiative, researching funding opportunities and regulatory needs, and communicating among key stakeholders to streamline processes and phase out old, polluting vehicles and equipment and institute a low/zero emission vehicle replacement program
- Authored a monthly environmental newsletter with Airport wide distribution of 6,000 plus employees
- Prior to this, I served as an intern for 5 months, where I implemented an Integrated Pest Management Policy

EDUCATION

Master of Advanced Studies, Climate Science & Policy

August 2016 - June 2017

University of California, San Diego | La Jolla, CA

Scripps Institution of Oceanography

Bachelor of Arts & Sciences, Environmental Studies, Math Minor

August 2010 - May 2014

University of San Diego | San Diego, CA

RESEARCH

Potential health co-benefits related to mitigation of air pollution from wood burning: A systematic review & health impact assessment case study in Athens, Greece

Independent Graduate Research

2016 - 2017

- Performed a systematic literature review and conducted a random effect meta-analysis to obtain pooled estimates of particulate matter pollution reductions associated with intervention policies aimed at wood burning
- Executed a risk assessment using varying scenarios and data retrieved from Athens and peer-reviewed studies to calculate population attributable fractions, estimating the health benefits of the intervention strategies
- Discussed specifics to the region, knowledge gaps, barriers for policy implementation, economic viability, and potential for impacts to vulnerable sub-populations
- Presented at the Scripps Institution of Oceanography Graduate Symposium; 2017 June 9; La Jolla, CA
- Presented at the Athens Institute for Education & Research's 3rd Annual International Conference on Public Health; 2017 June 19-20; Athens, Greece.

Geospatial Analysis of the Tecolote Creek Watershed

Undergraduate Senior Research Project

2013 - 2014

- Collected data and soil samples from different sampling sites within the Tecolote Creek watershed system
- Created spatial analysis maps on Geographic Information Systems (GIS) Software comparing land use patterns/driven sources to elevated concentrations of chlordane contamination
- Presented findings at the University of San Diego Creative Collaborations Symposium; 2014 May 23

PUBLICATIONS

Bailey, J., Gerasopoulos, E., Rojas-Rueda, D. & Benmarhnia, T.: Potential health and equity co-benefits related to the mitigation policies reducing air pollution from residential wood burning in Athens, Greece, *Journal of Environmental Science and Health, Part A*, 2019, doi:10.1080/10934529.2019.1629211

Green, H., Bailey, J., Schwarz, L., Vanos, J., Ebi, K. & Benmarhnia, T.: Impact of heat on mortality and morbidity in low and middle income countries: A review of the epidemiological evidence and considerations for future research, *Environmental Research*, Volume 171, 2019, 8091, doi:10.1016/j.envres.2019.01.010