

## Olivia Griot, Senior Associate

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### PROFESSIONAL EXPERIENCE

**Synapse Energy Economics, Inc.**, Cambridge, MA. *Senior Associate*, March 2022 – Present.

Provides consulting and researching services on a wide range of climate and energy issues. Works on various topics, including electric vehicles, benefit-cost assessment, land use, solar, offshore wind, and building decarbonization. Supports tool development and geospatial analysis.

**Abt Associates**, Cambridge, MA. *Senior Analyst*, December 2020 – March 2022, *Analyst*, June 2019 – December 2020, *Associate Analyst*, December 2017 – June 2019, *Research Assistant*, June 2016 – December 2017.

- Managed projects and led analytical work for clients at the U.S. Environmental Protection Agency (EPA), Army Corp of Engineers (USACE), National Oceanic and Atmospheric Administration (NOAA), as well as tribal, state, and local clients.
- Developed interactive analytical web products for EPA's Greenhouse Gas Reporting Program, including geospatial analysis of power plants' proximity to environmental justice communities.
- Supported the development of analytical tools, including EPA's Watershed Management Optimization Tool (WMOST) and other tools assessing economics relating to water policy.
- Conducted cost-benefit analysis and other regulatory support work for federal rulemakings on pollution, oil spill response, natural gas transport, and methane.
- Conducted environmental impact assessment and environmental justice analysis for infrastructure projects for USACE and state and local authorities in compliance with the National Environmental Protection Act (NEPA).
- Developed methodology to quantify the value of energy savings and air quality improvement benefits of green roofs for local clients.
- Performed ecosystem service valuations for various clients, including EPA, NOAA, and the Town of Oak Bluffs, MA.
- Developed resources for state policy makers to incorporate public health economics benefits estimation in state climate plans.
- Conducted stakeholder outreach and interviews for projects for USACE, EPA, NOAA, and state agencies with stakeholders including environmental justice organization representatives, academics, policymakers, tribal community leaders, and industry professionals.

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## SKILLS

Software: ArcGIS, Stata, IMPLAN, Access, Microsoft Excel, Word, Power Point, Tableau, Qlik Sense, openLCA, R/RStudio

## EDUCATION

**Northeastern University**, Boston, MA

Master of Science; Environmental Science and Policy, 2020.

**Boston College**, Chestnut Hill, MA

Bachelor of Arts; Economics, 2016, *magna cum laude*. Minor: Environmental Studies.

## PUBLICATIONS

Knight, P., J. Frost, T. Fitch, E. Sinclair, J. Taberner, O. Griot, B. Havumaki, J. Smith, L. Metz, S. Chavin. 2023. *TVA's Clean Energy Future: Charting a course to decarbonization in the Tennessee Valley*. Synapse Energy Economics for GridLab and Center for Biological Diversity.

(Forthcoming) Knight, P., O. Griot, E. Sinclair, J. Litynski, S. Kwok, J. Smith, J. Stevenson Zepeda, S. Kelly. 2022. *Technical Potential Study on Solar in Massachusetts*. Synapse Energy Economics for Massachusetts Department of Energy Resources.

(Forthcoming): Knight, P., O. Griot, T. Fitch, B. Havumaki, E. Sinclair. 2022. *Clean Energy Roadmap for Tennessee Valley Authority*. Synapse Energy Economics for GridLab.

(Forthcoming): Takahashi, K., O. Griot, J. Smith. 2022. *Local Climate Accounting Tool Development*. Synapse Energy Economics for the Metropolitan Area Planning Council.

Frost, J., P. Knight, J. Litynski, O. Griot, J. Smith. 2022. *Transforming Transportation in North Carolina*. Synapse Energy Economics for Sierra Club.

Guignet, D., Heberling, M., Papenfus, M., and Griot, O. 2022. *Property values, water quality, and benefit transfer: A nationwide meta-analysis*. Land Economics, 98(2). DOI: 10.3368/le.98.2.050120-0062R1.

Griot, O. 2021. *Climate, Health, and Environmental Justice: Designing Equitable Cap-and-Trade Programs*. Abt Associates Perspectives Blog.

Martinez, R., Chacon, M., Martinez, T., Ritter, K., Hosterman, H., And Griot, O. 2021. *Planning and Implementing Climate Resilience for the Pueblo de San Ildefonso*. Green Fire Times.

Ritter, K, Hosterman, H, Griot, O., et al. 2021. *Lake Superior Manoomin Cultural and Ecosystem Characterization Study*. Abt Associates for NOAA.

Guignet, D., Heberling, M., Papenfus, M., Griot, O., & Holland, B. 2019. *Property Values and Water Quality: A Nationwide Meta-Analysis and the Implications for Benefit-Transfer*. US EPA National Center for Environmental Economics Working Paper, 2019-05.

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## PRESENTATIONS

Griot, O. 2019. Lessons from Customer Needs and Requests for Space Weather Products and Services. Presented to NOAA Space Weather Prediction Center, March 25, 2019.

Zinmeister, E. (Presenter), Cooley, D., Griot, O., Assmus, P. 2020. Public Health Co-Benefits of Greenhouse Gas Emission Reductions: Methods for Benefits Estimation in State Climate Plans. Presented at the 2020 American Public Health Association (APHA) Annual Meeting, Virtual.

Guignet, D., Heberling, M., Papenfus, M., Griot, O., Holland, B. (2018). Property Values And Water Quality: A Nationwide Meta Analysis And The Implications For Benefit-Transfer. Presented at the 10th Annual Conference of the Society for Benefit Cost Analysis, Washington, DC.

Balukas, J. (Presenter), Besedin, E., Griot, O. 2018. Valuation of the Ecosystem Services Provided by Oak Bluffs' Public Coastal Resources. Presented at the Martha's Vineyard Coastal Conference, Edgartown, MA.

Worman, S.L. (Presenter), Taylor, S.M., Onsager, T., Adkins, J.E., Sprague, J., Griot, O., Baker, D.N., Forbes, K.F., Ranson, M., Basoli, D. 2017. The Social and Economic Impacts of Space Weather. Presented at: the annual NOAA Space Weather Workshop, Broomfield, CO; the United Nations/United States Workshop on the International Space Weather Initiative, Boston, MA; AGU Fall Meeting, New Orleans, LA.

## SELECTED PROJECTS

***Support for State Energy and Environmental Actions*** – Ms. Griot supported work developing guidance and tools for incorporating public health benefits into state climate plans through research on state climate plans and through developing reports and presentations on methods for public health economic benefits estimation in state climate plans.

***Green Infrastructure Strategy*** – Ms. Griot developed a case study to analyze the monetized benefits of air quality improvements and energy use reductions from green roofs in Washington, D.C. using Stata, AVERT, and COBRA. In the past, Ms. Griot developed a database of resources on green infrastructure as part of this program.

***Support for Clean Water Act Hazardous Substances Regulatory Activities*** – Ms. Griot led benefits analysis work for the RIA for EPA's CWA Hazardous Substances Worst-Case Discharge Planning Regulations. This involves qualitatively and quantitatively assessing the benefits of avoiding chemical discharges into waterways, including the environmental, social, and economic benefits.

***Economic Support for the Fort Peck Test Release Environmental Impact Statement*** – Ms. Griot led work on the economic impacts on irrigation from test releases from Fort Peck Dam. This involves national economic development and regional economic development modeling using IMPLAN, as well as cumulative impacts assessment. Ms. Griot led stakeholder outreach to irrigators using water from Fort Peck Dam in order to better refine cost estimates.

***Customer Needs and Requirements for Space Weather Products and Services*** – Ms. Griot produced a report for NOAA's Space Weather Prediction Center (SWPC) that identified and described the different

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customers and their rapidly evolving user requirements for space weather information products and services across five sectors: aviation, power, satellites, and communications, GPS/GNSS, and emergency management. This report utilized stakeholder outreach and interviews to understand customer needs.

***Technical Support for the Greenhouse Gas Reporting Program (GHGRP)*** – Abt Associates supports EPA with development, refinement, and implementation of the GHGRP in cross-cutting areas of data verification, data quality analysis, technical analysis and support of Part 98 provisions, and specific data analysis. In support of this work, Ms. Griot led data analysis and visualization for the GHGRP data highlights and industrial profiles. Her work on these tasks was accomplished through a combination of ArcGIS, Qlik, SQL, and Excel. She supported work on improving the latitudes/longitudes of facilities reporting to the program using ArcGIS. She recently used ArcGIS to map power plants reporting to GHGRP and calculate environmental justice statistics in their surrounding census block groups to assess the environmental justice impacts of power plant emissions.

***Enhancements to the Watershed Management Optimization Support Tool*** – Abt Associates is the primary developer of the Water Management Optimization Support Tool (WMOST), an EPA supported screening tool that optimizes water resources management strategies to support watershed and water supply managers. In the development of this tool, Ms. Griot worked to develop a module to incorporate economic co-benefits of water-related management practices, such as public health and climate change benefits. These modules included calculations of avoided emissions of greenhouse gases and their associated social costs from management practices such as green roofs, urban forestry, and green space.

***Coastal Ecosystem Services Valuation*** – Abt Associates was tasked with performing an ecosystem services valuation for the Town of Oak Bluffs’ coastal resources in order to help the Town prioritize climate change mitigation and protection efforts. Through this work, Abt Associates estimated the dollar value of Oak Bluffs’ coastal resources from their provisioning, cultural, supporting, and regulating services. Ms. Griot’s work for this project included literature research and review, data collection, economic analysis, and technical report writing.

***National Water Quality Benefits (NWQB) Platform Development*** – Abt Associates developed a benefit transfer approach to estimate household willingness-to-pay (WTP) for changes in wetland quantity and incorporating the estimated WTP function in the NWQB. Under this assignment, Abt created a meta-dataset to support development of a Bayesian meta-regression model. Ms. Griot contributed to this project through literature review and evaluation, as well as meta-data development and ArcGIS wetlands mapping.

***Technical Support for Hedonic Analyses*** – Abt provided technical support to NCEE for developing a hedonic property value module to estimate changes in residential property values resulting from modelled surface water quality improvements. Under this assignment, Abt developed a hedonic property value meta-dataset. In this work, Ms. Griot worked to compile a meta-dataset of primary estimates from hedonic property value studies in the published and grey literature that examine how property values vary with surface water quality. She also created a dynamic Stata code to supplement this data and drive the meta-analysis by calculating elasticities, semi-elasticities, and standard errors.

***Restoration Planning for the Restoration of Wetlands, Coastal, and Nearshore Habitats in the Barataria Basin*** – Abt Associates supported CPRA in restoration planning activities for the Mid-Barataria Sediment Diversion (MBSD) and the associated environmental compliance, and support for the ongoing

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United States Army Corps of Engineers-(USACE) led Environmental Impact Statement (EIS). Ms. Griot supported this project through development of the socioeconomic and environmental justice impact analyses for the EIS through data collection, analysis, IMPLAN model development, technical writing, and stakeholder outreach. She also assisted in literature reviews to develop methodologies for water quality assessments and in water quality data analysis.

***The South Florida Coral Monitoring Social Survey*** – Abt supported NOAA’s Coral Reef Conservation Program (CRCP) work gathering and monitoring a suite of socioeconomic variables assessing the knowledge, attitudes, and perceptions of coral reefs and coral reef management of local residents in the South Florida coral jurisdiction through survey administration. Residents’ knowledge of and perceptions of the threat of climate change to coral reefs was surveyed. In this work, Ms. Griot served as the project manager for the Abt Associates team.

***The Social and Economic Impacts of Space Weather, NOAA*** – Ms. Griot support work on social and economic impacts of space weather through extensive literature research and economic model building of the impacts and costs of space weather to four sectors: aviation, power, satellites and communications, and GPS/GNSS.

*Resume updated March 2023*