

# Morgan Santoni-Colvin

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## **ENERGY AND ENVIRONMENTAL ECONOMICS, INC.**

Boston, MA

*Associate*

Mr. Santoni-Colvin supports E3's Climate Pathways and Electrification practice area. He joined E3 after completing a master's degree in technology and policy from Massachusetts Institute of Technology. While at MIT, he worked at the MIT Energy Initiative where he constructed bottom-up building energy models to project the regional impacts of electrification for the decarbonization of building heating. He has also completed an internship at Recurve where he evaluated the potential for integrating demand flexibility modeling methods into California's integrated resource planning and resource adequacy proceedings. In addition to his M.S. from MIT, Mr. Santoni-Colvin holds a B.S. in Mechanical Engineering from the University of Texas at Austin.

## **MIT ENERGY INITIATIVE**

Cambridge, MA

*Graduate Research Assistant*

September 2021 – September 2023

- Constructed bottom-up building energy models to project the regional impacts of electrification for the decarbonization of building heating in the northeastern United States
- Interpreted power and gas infrastructure model results to determine best system plans under future scenarios
- Evaluated state-level regulatory processes, barriers, and opportunities for beneficial electrification
- Collaborated with utilities and grid operators to inform regional system planning and policy

## **RECURVE**

Bay Area, CA

*Graduate Public Policy Intern*

June 2022 – August 2022

- Evaluated potential for Recurve to integrate its demand flexibility modeling methods and data pipelines into California's integrated energy resource planning and resource adequacy proceedings
- Researched opportunities for regulatory reform to fully integrate distributed energy resources in Texas' wholesale electricity market

## **BREAKWATER FORENSICS, LLC**

Austin, TX

*Case Assistant*

June 2020 – August 2020

- Dissected construction management and permitting documents for evidence to support expert testimony in arbitration, especially on a dispute involving a multi-billion-dollar energy resource project
- Analyzed financial statements to determine sources of overruns for projects of various magnitudes

## EEA CONSULTING ENGINEERS

*Energy Engineering Intern*

Austin, TX  
June 2019 – August 2019

- Designed HVAC and plumbing systems on projects for nationwide commercial and retail clients
- Employed modeling software to calculate thermal loads for buildings of different characteristics

## Education

Massachusetts Institute of Technology  
*M.S., Technology and Policy*

Cambridge, MA  
September 2023

The University of Texas at Austin  
*B.S., Mechanical Engineering*

Austin, TX  
May 2021

## Publications

1. *Khorramfar, Rahman, **Morgan Santoni-Colvin**, Saurabh Amin, Leslie K. Norford, Audun Botterud, Dharik Mallapragada (2023) "Cost-effective Planning of Decarbonized Power-Gas Infrastructure to Meet the Challenges of Heating Electrification," (under review).*