

# Mandy Kim

44 Montgomery Street, Suite 1500, San Francisco, CA 94104  
[mandy.kim@ethree.com](mailto:mandy.kim@ethree.com)

---

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

San Francisco, CA

Mandy Kim joined E3's Climate Pathways and Electrification group after earning her master's degrees in Technology and Policy, and Electrical Engineering and Computer Science from MIT. There, her research focused on evaluating the costs and benefits of aviation emissions through climate and air quality modeling. Her work led to the development of a policy analysis tool that explores the variation of environmental impacts – namely climate, air quality, and ozone – across future policy and technological scenarios in the aviation sector. Prior to her time at MIT, Ms. Kim worked as an engineering consultant after she received a B.S. in Civil and Environmental Engineering from the University of California, Berkeley.

## **MIT LABORATORY FOR AVIATION AND THE ENVIRONMENT** *Research Assistant*

Cambridge, MA  
September 2020 – February 2023

- Developed a reduced-order, probabilistic model in the Julia programming language that evaluates the climate, ozone, and air quality-related health impacts from atmospheric emissions.
- Analyzed global geospatial environmental data including emissions, particulate matter, and column and surface ozone.
- Presented findings to stakeholders and research institutes at conferences.
- Co-authored a white paper on the environmental limits and policy gaps for supersonic aircraft in the near future.
- Led client-facing presentations to communicate technical findings and recommendations.

## **AECOM** *Civil Engineer*

Oakland, CA  
January 2017 – September 2020

- Provided technical expertise and guidance to clients on complex engineering problems, including structural analysis, material selection, and seismic retrofit solutions.
- Programmed finite element analysis models to design structural seismic retrofits.
- Facilitated weekly calls with clients to provide status updates.
- Produced technical documents to communicate proposed engineering designs with public officials.

## Education

Massachusetts Institute of Technology (MIT)  
*M.S., Technology and Policy*  
*M.S., Electrical Engineering and Computer Science*

Cambridge, MA  
February 2023  
February 2023

University of California, Berkeley  
*B.S., Civil and Environmental Engineering*

Berkeley, CA  
May 2017