

# Gabe Mantegna

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

415.391.5100

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

San Francisco, CA

*Consultant I*

Mr. Mantegna joined E3 in 2019 as a Consultant in the Clean Energy group, where his work focuses on modeling and analyzing policies to achieve steep, long-term, economy-wide emissions reductions on behalf of public and private sector clients. He brings with him private sector experience working as an R&D engineer for Manta Biofuel, a startup developing a renewable biofuel made from algae. He also brings significant technical and data analytics skills including Python, Matlab, SQL, R, GAMS, Unix shell scripting, and Excel. Mr. Mantegna received his B.S. in Environmental Engineering from Johns Hopkins University.

## **MANTA BIOFUEL**

Baltimore, MD

*R&D Engineer*

February 2017 – December 2018

- Researched, designed, built, and tested improvements to the company's core algae harvesting technology
- Performed engineering calculations for novel implementations of environmental engineering technologies
- Built economic models of biofuel systems to inform long-term strategy
- Wrote government grant applications in collaboration with company co-founders; secured \$1M Small Business Innovation Research (SBIR) grant from the U.S. Department of Energy in July 2018
- Wrote copy and designed communications materials for investors and stakeholders

## **ANTARCTIC CLIMATE AND ECOSYSTEMS COOPERATIVE RESEARCH CENTER**

Tasmania, AUS

*Climate Science Researcher*

November 2015 – November 2017

- Investigated how climate change will cause flood-inducing rainfall events to increase in intensity
- Used Matlab to clean, organize, and analyze high-resolution rainfall datasets

## **WIND ENGINEERING AND RENEWABLE ENERGY LABORATORY**

Lausanne, SUI

*Wind Farm Modeler*

June – August 2016

- Developed an autonomous system to predict the power output of a wind farm in Switzerland by running a Weather Research and Forecasting (WRF) model coupled with a Large Eddy Simulation (LES) model
- Analyzed and reported on model results and created visualizations to communicate findings

## JOHNS HOPKINS UNIVERSITY ACADEMIC SUPPORT

*Physics Tutor*

Baltimore, MD  
September 2014 – December 2016

- Tutored small groups of Johns Hopkins undergraduate students taking Physics 1 for Engineers

## Education

Johns Hopkins University

*B.S., Environmental Engineering*

*Faculty Award for Service and Academic Achievement in Environmental Health and Engineering*

Baltimore, MD

2017

2017

## Publications

Mantegna, G. A.; C. J. White; T. A. Remenyi; S. P. Corney; P. Fox-Hughes. "Simulating sub-daily Intensity-Frequency-Duration curves in Australia using a dynamical high-resolution regional climate model." *Journal of Hydrology*, Vol. 554, pp. 277-291 (2017).

## Citizenship

United States