# Erick C. Jones

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# 1. Education and Employment History

#### 1.1 Education

Current Ph.D., Operations Research and Industrial Engineering, University of Texas, Austin, TX Advisor: Benjamin Leibowicz Dissertation: Multi-Systems Optimization: Intermittent Production, Flexible Demand,

**Emerging Technologies** 

May 2019 M.S., Operations Research and Industrial Engineering, University of Texas, Austin, TX Advisor: Benjamin Leibowicz

May 2014 B.S., Chemical Engineering, Texas A&M University, College Station, TX Minor: Petroleum Engineering

# 1.2 Research & Academic Appointments

2019-	Fellow, National Science Foundation: National Research Trainee
2020-	Researcher, Texas Energy Poverty Research Institute, Austin, TX
2017-	Graduate Research Assistant, Operations Research and Industrial Engineering
2020	Fellow, DOE Mickey Leland Energy Fellowship, Los Alamos National Labs
2020	Visiting Scientist, NSF COVID-19 Grant, University of Texas at Arlington
2020	CRANE Fellow, Prime Coalition
2018-2019	Fellow, National GEM Fellowship Program
2018-2019	Module Developer, Planet Texas 2050, University of Texas
2009-2014	Undergraduate Research Assistant, Chemical Engineering, Texas A&M University

#### 1.3 Industry and Non-Profit Positions

2015-2017	Project Engineer, Johnson Controls, Houston, TX
2014-2015	Process Engineer, AMEC Foster Wheeler, Houston, TX
2012	Engineer Intern, HDL Power, Brenham, TX
2011	Engineer Intern, PWD Group, Queretaro, Mexico

### 1.4 Teaching Activities

2018-2020	Grader, Engineer Your World, University of Texas
2018-2019	Teaching Assistant, Engineering Finance, Mechanical Engineering, University of Texas
2018-2019	Scientist in Residence, Science in Residence, University of Texas & Austin High School
2018	Teaching Assistant, Fluids Lab, Mechanical Engineering, University of Texas
2017	Teaching Assistant, Fluids, Mechanical Engineering, University of Texas

## 1.5 Professional Development

#### 1.5.1 Conferences

Stanford Workshop: Macro-Energy Systems, September 17-18<sup>th</sup>, 2020. *GEM Conference*, The GEM Foundation, September 10-12<sup>th</sup>, 2020. *Mickey Leland Energy Fellowship Program Technical Forum*, August 3-7<sup>th</sup>, 2020 CV: Erick C. Jones Pg. 2 of 3

- Energy Week 2020, University of Texas at Austin, Austin, TX, February 17-21, 2020 Poster Session: Co-Optimizing Distributed Energy, Water, and Transportation: An Optimization-Based Decomposition Approach
- Graduate and Industry Networking Event, Austin, TX, February 4<sup>th</sup>, 2020.

  Poster Session: Building a Sustainable Future: Co-Optimizing Community Energy and Water, Transportation and Power
- Texas Energy Summit, TEES Energy Systems Labs, Austin, TX, November 12-14<sup>th</sup>, 2019

  Poster Session: Building a Sustainable Future: Co-Optimizing Community Energy and Water, Transportation and Power
- GEM Conference, The GEM Foundation, Los Angeles, California, September 13-15<sup>th</sup>, 2018. Poster Session: The Role of SAVs in Climate Change Mitigation Lecture Session: The Role of SAVs in Climate Change Mitigation
- Graduate and Industry Networking Event, Austin, TX, February 5<sup>th</sup>, 2019. Poster Session: The Role of SAVs in Climate Change Mitigation

#### 1.5.2 Workshops

WoodWorks Webinar: Modular Wood-Frame for Multi-Family: Design ..., 2020 CELC North Texas Roundtable, 2020 Renwable Thermal Alliance Webinar, Renewable Thermal Alliance, 2020 Sustainable Buildings Austin Climate Action Plan, Austin, TX, 2020 AGEP Research Exchange, Berkeley, California, 2019 3 Minute Thesis Competition, Austin, Texas, 2019

# 2. Awards, Recognition, and Service

## 2.1 University Level

- 2017-2020 Operations Research and Industrial Engineering Grant, University of Texas
- 2012 Artie McFarren Department of Chemical Engineering Scholarship, Texas A&M University
- 2012 12<sup>th</sup> Man Kickoff Team Scholarship, Texas A&M University
- 2011 Distinguished Student Award for Outstanding Academic Achievement, Texas A&M University
- 2010 Dwight Look Engineering College Scholarship, Texas A&M University
- 2019-2020 Vice President, Graduate Engineering Council, University of Texas
- 2019- Relations Chair, Institute for Operations Research and Management Sciences, University of Texas
- 2017-2019 Department Rep & New Programs Chair, Graduate Engineering Council, University of Texas
- 2010-2014 Program Chair, National Society of Black Engineers, Texas A&M University

#### 2.2 National Level

2013 National Science Foundation Louis Stokes Alliance for Minority Participation Scholarship

## 2.3 City/Community Level

- 2020 Committee Member, City of Austin Sustainable Buildings Taskforce, Austin, Texas
- 2019-2020 Volunteer, Urban Roots Farm, Austin, Texas
- 2014-2017 Volunteer, United Way, Houston, Texas
- 2016-2017 *Volunteer*, Baker Ripley, Houston, Texas
- 2014-2017 Volunteer, Big Brother Big Sister, Houston, Texas

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# 3. Scholarly Accomplishments

### 3.1 Refereed Journal Articles in Print

1. Jones, E. C., Azeem, Gohar, Jones, Erick C., and Jefferson, F., "Impacting at Risk Communities using AI to optimize the COVID-19 Pandemic Therapeutics Supply Chain", International Supply Chain Technology Journal (ISCTJ), Vol. 6, No. 9 September 2020. DOI: doi.org/10.20545/isctj.v06. i09.02

- 2. Erick Jones and Benjamin Leibowicz "Contributions of Shared Autonomous Vehicles to Climate Change Mitigation", Transportation Research Part D: Transport and Environment, v. 72, 2019, pg. 279-298, 1361-9209, DOI: 10.1016/j.trd.2019.05.005.
- 3. Juan C. Burgos, Erick Jones, and Perla B. Balbuena "Dynamics of Topological Defects in Single-Walled Carbon Nanotubes during Catalytic Growth", The Journal of Physical Chemistry C 2014 118 (9), 4808-4817 DOI: 10.1021/jp412708h
- 4. Juan C. Burgos, Erick Jones, and Perla B. Balbuena "Effect of the Metal—Substrate Interaction Strength on the Growth of Single-Walled Carbon Nanotubes", The Journal of Physical Chemistry C 2011 115 (15), 7668-7675 DOI: 10.1021/jp200919j

### 3.2 Refereed Conference Papers in Print

1. Dana Harmon, Erick Jones, Emory Wolfe, and Jacquie Moss "Pathways for Reducing Energy Burdens in Harris County", 2020 ACEEE Summer Study on Energy Efficiency in Buildings proceedings

## 3.3 Refereed Journal Articles in Review

1. Erick Jones and Benjamin Leibowicz "Co-optimization and community: Maximizing the benefits of distributed electricity and water technologies", Sustainable Cities and Society

# 3.4 Refereed Conference Papers in Review

1. Erick Jones "Decomposing Systems: Illustrating the Utility of Distributed Energy Resources with Decomposition Techniques", Institute of Industrial and Systems Engineers Annual Conference and Expo 2020

#### 3.5 Works in Progress

- 1. Erick Jones, Sean Yaw, Richard Middleton, "Temporal SimCCS 2.0: Adjusting SimCCS with relation to time to account for the 45Q Tax Credits"
- 2. Erick Jones, Lina Sela, Ali Fares, Benjamin Leibowicz, "Multi-Systems Optimization in a Water Constrained Agricultural Setting: Combing Energy, Water, and Food Systems"
- 3. Jones, E. C., Azeem, Gohar, Jones, Erick C., and Jefferson, F, "COVID-19 Medicinal Supply Chain Optimization: Prioritizing Vulnerable Populations based on past Infectious Disease Response"

Latest Updated: 06/12/2020