

# Ian E. Gonzalez-Alfonzo

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## EDUCATION

- **Iowa State University, Ames, IA**
  - *Master of Science in Computer Science* GPA: N/A
  - *Specialization in AI, Machine Learning, and Data Science* Expected Grad. Date: Fall 2022
- **Iowa State University, Ames, IA** GPA: 3.36
  - *Bachelor of Science in Mechanical Engineering* Graduated: Fall 2020
  - *Minor in Computer Science*
  - *Minor in French Language*

## PUBLICATIONS

- *Tian, Xinchun; Banerjee, Souvik; **Gonzalez-Alfonzo, Ian**; Cademartiri, Ludovico; "Suppressing evaporative loss in slippery liquid-infused porous surfaces (SLIPS) with self-suspended perfluorinated nanoparticles"; Langmuir*
- *Yan, Jie; Zhang, Jing; Lv, Guoliang; Han, Shuang; **Gonzalez-Alfonzo, Ian**; Liu, Yongqian; "EV charging load simulation and forecasting considering traffic jam and weather to support the integration of renewables and EVs"; Renewable Energy*

## EXPERIENCE

- **NSF-IRES Summer Internship on Renewable Energy** June-July 2019
  - Research experience at the North China Electric Power University in Beijing, China.
  - Worked with simulations regarding electric vehicle efficiency in Matlab using machine learning.
  - Publication published in *Renewable Energy*, listed above.
- **Pella Corporation: Research and Advanced Development Co-op** May-December 2018
  - Used CAD and 3D printer to produce window prototypes.
  - Coded Arduinos to implement tech in prototypes.
  - Led projects worth \$100,000+ in cost improvements.
  - Completed 50 hours of community service.
- **Science Undergraduate Laboratory Internship (SULI) – Research Internship** May-August 2017
  - Developed nanoparticle technology at the Ames Laboratory, a Dept. of Energy lab.
  - Publication published in *Langmuir*, listed above.
- **Mechanical Engineering Teaching Assistant** Fall 2017-Spring 2018
  - Aided a Mechanical Engineering professor in teaching Computer-Aided Design using SolidWorks and programming using Matlab. Used Mathcad to perform calculations and help grade.
- **Human Centered Design Study Abroad-Nicaragua** May-July 2016
  - Designed, developed, and implemented a concrete block form through human-centered design, working side-by-side with a co-designer client.
- **Polyglot Club at Iowa State University, Founder and President** February 2018-December 2020
  - Multilingual club for learning and practicing languages, and learning about cultures around the world.
  - Aimed at increasing the tolerance among peoples of the world, and building more informed and skillful professionals. Our mission is to foster curiosity for other cultures.

## SKILLS

- Fluent in Python, Java, SQL, Matlab, and Arduino. Adept in C++ and JavaScript.
- Fluent in Spanish, English, Portuguese, and French: C2 in Spanish and English, B2 in French and Portuguese.
- Beginner in Mandarin Chinese.

## ACHIEVEMENTS

- **George Washington Carver Scholar** 2015-2019
  - Scholarship awarded by Iowa State University for academic achievement
- **BSA Eagle Scout**