

# Plinio Guzman

www.plinioguzman.com  
pgzmnk@gmail.com | 631.428.6787 | Boulder, CO

## EDUCATION

### UDEMY / DATAQUEST

DATA SCIENCE AND STATISTICS  
2016 - Present

### STONY BROOK UNIVERSITY

BE/MS MECHANICAL ENGINEERING  
2015 | Stony Brook, NY

## PROFILE

Github: [mindatasleep](#)

LinkedIn: [plinioguzman](#)

Instagram: [pgzmnk](#)

Coaching: [SmoothPeaks](#)

## SKILLS

### DATA SCIENCE

Python 3.6+ • Sklearn Pipelines • tf.keras  
Pandas • Numpy • Sklearn Pipelines

### DEVOPS

Docker • GitLab • GitHub  
AWS • Google Cloud • CircleCI  
PostgreSQL 9.5+ •  $\text{\LaTeX}$  • CLI

### GIS

PostGIS • QGIS • ArcGIS

### WEB DEVELOPMENT

Ruby on Rails • Flask • GraphQL  
React • CSS / JS / HTML

## BEYOND THE BIO

### FLOW AND STOKE

Kiteboarding • MTB Racing  
Ultra Marathons • Health Coaching  
Select; Poetry

### LANGUAGES

English • Spanish

## EXPERIENCE

### LOTIC LABS | DATA SCIENCE LEAD

2017 - Present | Chicago, IL

- Manage communications 5 person Latin America Water Fund team of \$1B NGO The Nature Conservancy
- Containerize models to run hydrology studies 20 times faster
- Develop internal tools to warehouse and study 10+ data sources with environment and finance timeseries
- Optimize runtime of statistical analysis tools to run PCA
- Coach health of 3-person company at 2018 Techstars Sustainability Accelerator in Denver

### CINVESTAV / GRUPO T | WATER ENGINEER

2017 - 2018 | Mexico

- Coordinate web development for young-scientist education program
- Evaluate capacitive deionization technologies to treat water in 200 person institute
- Research water issues of Mexico in the energy, waste, and agriculture nexus
- Document history and politics of water in Cuatro Ciénegas, Coahuila

### SINGULARITY UNIVERSITY | GLOBAL SOLUTIONS PROGRAM

2016 | Mountain View, CA

- Customer Discovery in Biotech startup (Basepaws) at accelerator
- Study the pace of technology and society, and leverage points on the world's grand challenges (+ drink Kool-Aid)
- Head team projects in cohort of 79 students from 41 different countries

### TURKANA BASIN INSTITUTE | WATER ENGINEER

2015 - 2016 | Ileret, Kenya

- Deploy prototype of Membrane Distillation unit to desalinate 100L/day of borehole water
- Design and implement automated Data Acquisition system to optimize thermodynamic system

### JUICE + | CO-FOUNDER & CEO

2015 - 2016 | Stony Brook, NY

- Spearhead 6 students, faculty, and researchers in startup competitions
- Raise \$10,000 to prototype a linear induction off-grid energy generator

## PUBLICATIONS

### STONY BROOK UNIVERSITY | ENGINEERING DEPARTMENT

- "Piezoelectric stack energy harvesting with a force amplification frame: modeling and experiment" Journal of Intelligent Material Systems and Structures. 2016 (coauthor)
- "Electrospun polystyrene nanofibrous membranes for direct contact membrane distillation" Journal of Membrane Science. 2016 (coauthor)
- "Design, Modeling and Experimental Testing of an Amplified Doormat-Like Footstep Energy Harvester." ASME Smart Materials, Adaptive Structures and Intelligent Systems. 2014