

Ryan Gao

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Data analyst and educator with a strong foundation in tech, science, and math seeking opportunities in junior roles. With a degree in astrophysics and certificates in data science and full-stack web development, along with experience in education, I bring a unique blend of analytical and technical skills to the table. Passionate about scientific literacy and applying evidence-based approaches to problem-solving in this age of volatile information.

Experience

Mathematics Tutor

Elite Education | Hong Kong

Sep 2024 - Oct 2025

- Taught students of various ages in one-on-one sessions with tailored lesson plans
- Subjects taught include: algebra, geometry, trigonometry, calculus, physics, and English writing
- Provided feedback and documented lessons after every session
- Evaluated student progress through assessments and written long-term progress reports
- Frequently collaborated with counseling team to formulate lesson goals

Volunteer - Data Analyst

Hack for LA | Los Angeles

Oct 2019 - Feb 2020

- Used python with pandas for ETL operations + data analysis, cleanup, and visualization on data from 311 calls
- Worked on front-end web development with React, learned containerization with Docker

Research Intern

Berkeley SETI | Berkeley, CA

May 2016 - Aug 2016

- Focused on detecting radio frequency interference and signal processing
- Used hardware to nearby radio signals, and a telescope to collect data from space
- Applied math, physics, and coding to programmatically process data and visualize the results
- Work was documented in jupyter notebooks as reference material for future interns/students

Tutor

ACI Institute (2010) & Self-Employed (2018+) | Temple City, CA

2010

Worked as a math and English tutor at various times, focusing on standardized testing (SAT/IELTS/TOEFL)

Skills

Tech: Python, pandas, R, scientific computing, javascript, node.js, React.js, HTML/CSS, DOCKER, responsive web design, SQL, mongoDB, ETL operations, Excel, data cleanup, analysis, visualization

Academic: Algebra, Geometry & Trigonometry, Calculus, General Science, English grammar and writing

General: Highly organized and keen on documentation, great with instruction and written communication, adept at parsing info to identify inconsistencies, resourceful, analytical, and investigative

Education

Massachusetts Institute of Technology Extension (MITx Online)

Oct 2019

Micromaster Certificate Data Science

Relevant Coursework: Statistics, Probability, Data Analysis, Machine Learning with Python

University of California, Los Angeles Extension (UCLAx)

Feb 2019

Certificate Full-Stack Web Development

University of California, Berkeley

May 2016

Bachelor's Degree Astrophysics

Minor: Multivariable Calculus, Linear Algebra, Radio Astronomy Lab

Additional

- Languages: English (native), Mandarin (conversational)
- Work Authorization: U.S. citizen and flexible to work in any U.S. urban center
- Residence: Hong Kong; returning to U.S. in January 2026