

Miguel Isaac Arroyo Velázquez

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EXPERIENCE

Data Visualization Designer/Specialist (May 2022 – Present)

Freelance

- Collaborated with people with different backgrounds in multidisciplinary projects, such as the arts, academia, human rights and economics.
- Designed data visualizations according to the project and the client's necessities.
- Counselling on issues related to effective visual communication and data analysis workflow.

Teaching Assistant at Bedu (August 2021 – Present)

Part-time

- Facilitated the students' questions to the leading teacher.
- Enrolled in data analysis and science courses with R and Python.

Data Analyst at Bedu (March 2021 – June 2021)

Internship

- Programmed a Python Script to extract online job description features (web scrapping).
- Performed text analyses using Natural Language Processing tools and techniques to understand and identify technical and soft skills from those job descriptions.
- Reported the results to the Product Department to guide the design of the courses according to the market's needs.

Teaching Assistant at Universidad Autónoma de Yucatán (January 2020 – January 2021)

Part-time

- Assisted students on advanced math topics to improve their performance and grades.
- Created scientific visualizations of mathematical concepts for the Basic Sciences Department.

PERSONAL PROJECTS

Social Media Data Visualization Challenges (April 2022 – Present)

- **#TidyTuesday:** Made weekly data visualizations entirely with R, ggplot2 and ggplot2 extensions.
- **#30DayChartChallenge:** Created more than 20 data visualizations with various tools, including programming languages, online data visualization software and design software.

Undergraduate Thesis Project: Statistical and computational tools in Earth Engine satellite imagery for wildfire exploration (March 2021 – December 2021)

- Gathered wildfire record data from different resources and compared them with satellite imagery to understand their historical and environmental behaviour and impact in Yucatan, Mexico.
- Conducted an exploratory data analysis and summarized the research with proper data visualizations to facilitate communication.
- As a side project within this thesis project, I've been redesigning the data visualizations to explore a different perspective of the same information.

EDUCATION

BSc. in Engineering Physics from Universidad Autónoma de Yucatán, Mexico (2016 – 2021)

- **Relevant coursework:** Probability, Statistics, Data Science, Machine Learning and Energy Sources.

SKILLS

- **Programming:** Python, R, HTML, CSS, JavaScript, SQL.
- **Data Visualization Tools:** Datawrapper, Flourish, Adobe Illustrator, Procreate.
- **Data Science and Analysis:** Data Science pipeline (cleansing, wrangling, visualization, modelling, interpretation), Anomaly Detection, Pattern Recognition, A/B Testing (Hypothesis Testing), Exploratory and Explanatory Data Visualization, Git, Google Workspace, MS Office.