

# Miguel Isaac Arroyo Velázquez

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## WORK EXPERIENCE

### Data Analyst at N+ Focus (Dec 2022 – Present)

*Full-time*

- Conduct research and source relevant datasets to enhance investigative journalism projects.
- Analyze new topics and propose investigative directions to support and facilitate investigative progress.
- Collaborate closely with the web designer to create both static and interactive data visualizations that enhance the user experience of the investigation's website.

### Data Visualization Designer/Specialist (May 2022 – Present)

*Freelance*

- Designed data visualizations for people with different backgrounds in multidisciplinary projects (the arts, academia, and human rights).
- Counselling on issues related to effective visual communication and data analysis workflow.

### Data Analyst at Bedu (March 2021 – June 2021)

*Internship*

- Programmed a Python Script to extract online job description features (web scrapping) to perform 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.

## PERSONAL PROJECTS

### 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 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.