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| **Itza Akari Olguín Zúñiga**(Demographer and Actuarial Scientist) |
| +52 55-62-88-25-21 | iakario27@gmail.com  |
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| **ACADEMIC QUALIFICATIONS** |
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| Master’s Degree in Demography - *El Colegio de México*  |  | *[2018-2020]* |
| * Research topic: Latent class analysis of the dynamic of contraceptive use in migrant women
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| * Relevant coursework: Advance statistics, Spatial statistics, Demographic Analysis
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| Bachelor’s Degree in Actuarial Science - *Universidad Marista* |  | *[2011-2015]* |
| * Research topic: Calculation of catastrophic damages in the agricultural sector
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| **PROFESSIONAL EXPERIENCE** |
|  |
| Independent Consultant of Statistical Analysis (part-time) - *Lides Consultancy* |  | *[08/2022-]* |
|  | * Statistical consultancy and data analysis with different data sources for studies about gender equality in local governments and public and private institutions.
* Evaluation and diagnosis of gender equality with quantitative data for statal governments.
* Creation of scripts in different programs like R and Stata to evaluate indicators about socioeconomic and demographic characteristics of the population.
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| Head of the Demographic Analysis Department – *National Institute of Statistics and Geography (INEGI), Census Statistics Division* | *[05/2021- 05/2022]* |
|  | * Application of demographic analysis to improve the collection of sociodemographic information in censuses and population surveys and for the creation of population projections with census information.
* Creation of scripts in the R, SAS and SQL languages for the cleaning, updating, and analysis of databases.
* Definition of statistical strategies to evaluate the results of the 2020 Census.
* Coordination of work team for the development of results reports about population, mortality and health.
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| Research Assistant – *El Colegio de México (Colmex), Center of Demographic, Urban and Environmental Studies* | *[08/2020 - 03/2021]* |
|  | * Creation of indicators and writing of research reports on the topics of health, reproductive health, gender, violence, human rights, and workforce based on public information to evaluate the improvement in gender equality.
* Creation of scripts in the R and Stata languages for the analysis of public databases and the creation of indicators.
* Quantitative analysis for the projects: Gender Profile of UN Women, and Progress of Beijing's Agenda.
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| Data Analyst – *National Human Rights Commission (CNDH), Center of Geospatial Information* | *[02/2017-04/2018]* |
|  | * Developing of reports with descriptive analysis and cleaning of Human Rights-related databases.
* Cleaning of databases for spatial analysis and generation of queries in SQL.
* Creation of a General Report about the follow-up of recommendations on human rights.
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| **COMPETENCIES** |
|  | * Programming Languages: R, Python, Stata
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|  | * Statistical techniques and Data Analysis: Hypothesis testing, Predictive models, Time series, Lineal regression, Logit regression, Spatial regression, Cluster Analysis, Heat maps, Latent Analysis, and Data Analyst pipeline (cleaning, analysis, modeling, visualization, and interpretation of results)
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|  | * Other software for statistical and spatial analysis: SQL, QGis, Excel, SAS, Google Data Studio, Power BI, GeoDa, SPSS, Latent Gold,
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| **TEACHING ACTIVITIES** |
|  | * Teaching of the course: Spatial analysis of internet access and internet culture (introduction to the use of QGis) - *Centro de Cultura Digital (CCD)*
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|  | * Private classes of coding in R language and use of QGis (20+ students)
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| **COURSES AND EXTRACURRICULAR ACTIVITIES** |
|  | * Introduction to Data Science with Python- *Emtech Santander*
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|  | * Introduction to Network Analysis - *El Colegio de México (Colmex)*
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|  | * Use of APIs to download data - *El Colegio de México (Colmex)*
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|  | * Gender, inclusion, and no discrimination – *National Human Rights Commission (CNDH),*
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| **LANGUAGES** |
| * Spanish - Native language
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| * English – Advanced level
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