

# JESÚS ARMENTA-SEGURA

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## EMPLOYMENT HISTORY

### Maintenance of Servers

#### CIC-IPN

📅 Aug 2023 – Jun 2024

📍 Mexico City

-I was in charge of the maintenance of all servers from the NLP lab at CIC-IPN.

**Technologies used:** Ubuntu Server 20.04.4 LTS, Docker, vim.

### Academic Collaboration

#### CONAHCYT

📅 Jan 2023 – Dec 2023

📍 Mexico City

-Created a novel dataset of youtube comments about mexican politics from early 2023.

**Technologies used:** Python, BeautifulSoup4, Pytorch.

### Shared Tasks (selected)

#### CIC-IPN

📅 Feb 2023 – May 2024

📍 Mexico City

-Ometeotl at Hope2024@IberLEF2024.

We achieved top places, at 0.03 points to the winners.

**Technologies used:** Python, Transformers, Pytorch.

-Ometeotl@Multimodal hate speech event detection 2024.

We achieved top places, at 0.06 points to the winners.

**Technologies used:** Python, Transformers, Pytorch.

-Lidoma at Hope2023@IberLEF2023, dravidianlangtech.

I collaborated with people from Iran in these Shared Tasks.

**Technologies used:** Python, Transformers, Tensorflow.

## PAPERS

H-index: 4

Erdos Number: 3

### 👤 Publication in Journals

“Two-agent approximate agreement from an epistemic logic perspective”

J. Armenta-Segura J. Ledent, and S. Rajsbaum.

*Computación y Sistemas*, vol. 26, no. 2, 2022.

Available at: [cys.cic.ipn.mx/ojs/index.php/CyS/article/view/4234](https://cys.cic.ipn.mx/ojs/index.php/CyS/article/view/4234)

### 👤 Conference Proceedings

“Anime success prediction based on synopsis using traditional classifiers”

J. Armenta-Segura and G. Sidorov.

## RESEARCH INTERESTS

Natural language processing, digital humanities, discourse studies, sentiment analysis, machine and deep learning algorithms and tools.

## SKILLS

Python

PyTorch

Transformers

LLM's

NLP

LaTeX

Academic Paper Writing

Team Management

Lecturer

Curious and fast learner

## EDUCATION

### Diploma

**Instituto Politécnico Nacional (México)**

📅 Aug 2022 – July 2024

**Terminal Project:** Anime Popularity Prediction Based on Synopsis with Deep Learning Techniques.

**Tutor:** Dr. Grigori Sidorov

### M.Sc. in Pure Mathematics

**Universidad Nacional Autónoma de México**

📅 Aug 2020 – June 2022

**Advisor:** Dr. Sergio Rajsbaum

### B.Sc. in Pure Mathematics

**Universidad Nacional Autónoma de México**

📅 Aug 2015 – June 2020

**Advisor:** Dr. Sergio Rajsbaum

## ACHIEVEMENTS



### Sotero Prieto Prize

3rd best pure mathematics undergraduate thesis of all Mexico.



### Hope@IberLEF

4th place in detecting hope speech towards LGBT+ population.

Jun. 2023. Published at 'Research in Computer Science'  
Available at: [rscs.cic.ipn.mx/2023\\_152\\_9](https://rscs.cic.ipn.mx/2023_152_9)

**"Language identification at the word level in code-mixed texts using character sequence and word embedding"**

O. E. Ojo, A. Gelbukh, H. Calvo, A. Feldman, O. O. Adebajji, and J. Armenta-Segura.

*In Proceedings of the 19th International Conference on Natural Language Processing (ICON)*

Available at: [aclanthology.org/2022.icon-wlli.1](https://aclanthology.org/2022.icon-wlli.1)

## Participation in Shared Tasks and Contests

**"Omoteotl@multimodal hate speech event detection 2023: Hate speech and text-image correlation detection in real life memes using pre-trained bert models over text"**

J. Armenta-Segura, C. Núñez-Prado, G. Sidorov, A. Gelbukh, and R. Román-Godínez.

*In Proceedings of the VI workshop on Challenges and Applications of Automated Extraction of Socio-political Events from Text (CASE@RANLP 2023), Varna, Bulgaria, Sep. 2023.*

Available at: [aclanthology.org/2023.case-1.7/](https://aclanthology.org/2023.case-1.7/)

**"Lidoma at hope2023@iberlef: Hope speech detection using lexical features and convolutional neural networks"**

M. Shahiki-Tash, J. Armenta-Segura, O. Kolesnikova, G. Sidorov, and A. Gelbukh.

*In Proceedings of the Iberian Languages Evaluation Forum (IberLEF 2023) co-located within the XXXIX International Conference of the Spanish Society for Natural Language Processing (SEPLN 2023), Jaén, Andalusia, Spain, Sep. 2023.*

Available at: [ceur-ws.org/Vol-3496/hope-paper4.pdf](https://ceur-ws.org/Vol-3496/hope-paper4.pdf)

**"Lidoma@dravidianlangtech: Convolutional neural networks for studying correlation between lexical features and sentiment polarity in Tamil and Tulu languages"**

M. Shahiki-Tash, J. Armenta-Segura, Z. Ahani, O. Kolesnikova, G. Sidorov, and A. Gelbukh.

*In Proceedings of the III Workshop on Speech and Language Technologies for Dravidian Languages (DravidianLangTech-2023@RANLP2023), Varna, Bulgaria, Sep. 2023.*

Available at: [aclanthology.org/2023.dravidianlangtech-1.25/](https://aclanthology.org/2023.dravidianlangtech-1.25/)

**"Lidoma at homo-mex2023@iberlef: Hate speech detection towards the mexican spanish-speaking lgbt+ population. the importance of preprocessing before using bert-based models"**

M. Shahiki-Tash, J. Armenta-Segura, Z. Ahani, O. Kolesnikova, G. Sidorov, and A. Gelbukh.

*In Proceedings of the Iberian Languages Evaluation Forum (IberLEF 2023) co-located within the XXXIX International Conference of the Spanish Society for Natural Language Processing (SEPLN 2023), Jaén, Andalusia, Spain, Sep. 2023.*

Available at: [ceur-ws.org/Vol-3496/homomex-paper1.pdf](https://ceur-ws.org/Vol-3496/homomex-paper1.pdf)

## LANGUAGES

Spanish (*native*)



English



## PROFESORSHIP

Assistant Professor

Faculty of Sciences, UNAM

 jan 2019 – aug 2021  México

- Calculus I (in Spanish) **feb-jul 2021**
- Calculus I (in Spanish) **aug-dec 2020**
- Differential Equations I (in Spanish) **feb-jul 2020**
- Analytic Geometry I (in Spanish) **feb-jul 2020**
- Introduction to Abstract Algebra I (Álgebra Superior I) **aug-dec 2019**
- Calculus I (in Spanish) **aug-dec 2019**
- **feb-jul 2019** Differential Equations I (in Spanish)

## OTHER INTERESTS

- Amateur writer.
- Guitar Player.
- Musical Composer/Enjoyer.