

JESÚS ARMENTA-SEGURA

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🐙 [/JesusASmx](https://github.com/JesusASmx)



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: 5

Erds Number: 3

👤 Publication in Journals

SUBMITTED AT 21-june-2024:

“Anime popularity prediction before huge investments: A multi-modal approach using deep learning”

J. Armenta-Segura and G. Sidorov.

Submitted for peer reviewing at PeerJ CS

Available coming soon

“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

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

PhD. in Computer Science

[Instituto Politécnico Nacional \(México\)](#)

📅 Aug 2022 – current

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.

Conference Proceedings

"Anime success prediction based on synopsis using traditional classifiers"

J. Armenta-Segura and G. Sidorov.

Jun. 2023. Published at 'Research in Computer Science'

Available at: 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

Participation in Shared Tasks and Contests

"Omteotl@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/

"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

"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) Sep. 2023.

Available at: 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

LANGUAGES

Spanish (*native*)



English



PROFESSORSHIP

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.