# Joshua Chaz Rivera

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# Research interests

Semantics, Machine Learning, Low-Resource languages, Few-shot learning, Figurative Language, LLMs, Diffusion Models, Machine Translation

2025 – Present	Education  IMT Atlantique – Brest, France PhD in Machine Learning
	Mentors: Vincent Gripon, Bastien Pasdeloup
2022 – 2025	University of Stuttgart – Stuttgart, Germany M.Sc. in Computational Linguistics Mentors: Alexander Fraser, Sabine Shulte im Walde Thesis: Mechanisms of Transformers in Metaphor Detection and Translation
2018 - 2022	New York University(NYU) – New York, USA B.A. in Mathematics & Linguistics (Double Major) Mentors: Christopher Collins, Dimitrios Giannakis
	Research Experience
Dec. 2023 – Mar. 2025	Ubiquitous Knowledge Processing (UKP) Lab, TU Darmstadt Legal NLP Research Assistant (Hilfswissenschaftler) with Lena Held
May 2022 – Aug. 2023	Weill Cornell Medicine, Cornell University  Medical NLP Research Assistant with Michael Chary
Sept. 2021 –	Department of Linguistics, NYU

## Talks

May 2022 Nov. 2020 –

Aug. 2021

	Talks
January 2025	"Mechanisms of Transformers in Metaphor Detection and Translation"
	Masters Thesis Defense
May 2022	"Quantities and Intensifiers in the Pekigbe Dialect of Ewe"
	48th Undergraduate Research Conference (NYU)

Courant Institute of Mathematical Sciences, NYU

Independent Fieldwork with Christopher Collins

Research Assistant with Dimitrios Giannakis

April 2022 "Quantities and Intensifiers in the Pekigbe Dialect of Ewe"

Cornell Undergraduate Linguistics Conferences (CULC16)

# **Poster Presentations**

oids on social media using linguistic features"

North American Congress of Clinical Toxicology (NACCT) 2023

March 2023 Joshua Rivera & Michael Chary "Geographic Variation of Opioid Use Discussions

Tracks Geographic Variation in Opioid-Associated Use" 2023 ACMT Annual Scientific Meeting – San Diego, CA

# Awards and Grants

Nov. 2021 NYU Dean's Undergraduate Research Fund (DURF)-\$1000

Awarded for fieldwork on the Pekigbe dialect of Ewe

# Technical skills

## **Programming languages**

Proficient in: Python, Java, HTML, JavaScript, Matlab, R, Bash

#### Libraries

Pytorch, Scikit-learn, SpaCy, NLTK, Huggingface, LangChain

#### Software

Land, Praat, Excel, Linux, Git, ELAN, Jupyter Notebooks

# Languages

English (Native)

Spanish(Fluent)

German(Intermediate)