

# CURRICULUM VITAE - ERIN PACQUETET

Data Scientist - SCIAM  
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## EDUCATION

Last updated 2025-06-17

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- Ph.D. in Linguistics** 2024  
University at Buffalo  
**Dissertation:** The effect of linguistic properties on typing behaviors and production processes  
(Committee: Jean-Pierre Koenig, Rui Chaves, Cassandra Jacobs, Christian DiCanio)
- M.S in Computational Linguistics** 2021  
University at Buffalo  
**M.S. Project:** Processing keystroke data for linguistic analysis
- M.A. in English Linguistics** 2018  
Université Paris Diderot  
Phonetics and Phonology minor  
*1 year Academic Exchange at the University of Arizona*  
**M.A. Thesis:** Investigating the Hierarchy of Constituency Through Keystroke Log  
(Committee: Nicolas Ballier, Benoît Crabbé)
- B.A. in Anglophone Studies** 2016  
Université Paris Diderot  
*1 semester Academic Exchange at the University of Nottingham*

## PUBLICATIONS

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### Research papers:

Proto: A Neural Cocktail for Generating Appealing Conversations - Saha, Das, Soper, **Pacquetet**, Srihari 2021  
*In 4th Proceedings of the Alexa Prize*

### Conference Proceedings:

Logging Keystrokes in Writing by English Learners - Velentzas, Caines, Borgo, **Pacquetet**, Hamilton, Arnold, Nicholls, Buttery, Gaillat, Yannakoudakis, Ballier 2024  
*LREC-COLING 2024*

Let's Chat: Understanding User Expectations in Socialbot Interactions - Soper, **Pacquetet**, Saha, Das, Srihari 2022  
*Proceedings of the Second Workshop on Bridging Human-Computer Interaction and Natural Language Processing*

Prototype de feedback visuel des productions écrites d'apprenants francophones de l'anglais sous Moodle (*Visual feedback prototype for English learner's written productions on Moodle*) 2019  
- Ballier, Gaillat, **Pacquetet**  
*EIAH 2019*

Investigating Keylogs as Time-Stamped Graphemes - Ballier, **Pacquetet**, Arnold 2019  
*Grafematik 2018*

## PRESENTATIONS & POSTERS

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### Invited talks:

Pre-processing keystroke logs for linguistic analysis - **Pacquetet** 2023  
*Deep Learning for Language Assessment Closing Workshop - November, Paris - France*

### Refereed by Abstract:

Predicting CEFR levels for learners of English with keylogging metrics, an exploratory study-  
Al Sawar, **Pacquetet**, Mallart, Simpkin, Ballier 2025  
*CORIA-TALN 2025, DynTAL Workshop - June, Marseille -France*

Logging Keystrokes in Writing by English Learners - Velentzas, Caines, Borgo, **Pacquetet**,  
Hamilton, Arnold, Nicholls, Buttery, Gaillat, Yannakoudakis, Ballier 2024  
*LREC-COLING 2024 - May, Torino - Italy*

Let's Chat: Understanding User Expectations in Socialbot Interactions - Soper, **Pacquetet**,  
Saha, Das, Srihari 2022  
*HCI+NLP 2022- July, Seattle, WA - USA*

Using keystroke logs to analyze CMC - **Pacquetet** 2021  
Poster - *CMC-Corpora 2021 - October, Nijmegen - Netherlands*

Prototype de feedback visuel des productions écrites d'apprenants francophones de l'anglais  
sous MOODLE - Ballier, Gaillat, **Pacquetet** 2019  
Poster - *EIAH 2019 EdTech Forum - June , Paris - France*

Investigating Keylogs as Time-Stamped Graphemes - Ballier, **Pacquetet**, Arnold 2018  
Talk - *Grafematik June, Brest - France*

### Other academic presentations:

Investigating typing bursts as a linguistic unit - **Pacquetet** 2019  
*Qualifying Paper Presentation - December, Buffalo NY - USA*

French Multi-word expression and their structural differences in treebanks - **Pacquetet** 2019  
Poster - *CSE Departmental Demo Day - May, Buffalo NY - USA*

Annotation of Multi-word expression in the French Treebank - **Pacquetet** 2018  
Poster - *CSE Departmental Demo Day - December, Buffalo NY - USA*

### Outreach:

Fiabilité dans l'ère de l'IA générative : le RAG pour gérer les hallucinations - **Pacquetet**, Jara 2025  
*Meet-up Dev, April, Paris - France*

## GRANTS AND AWARDS

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**Mark Diamond Research Fund Grant \$1995** 2022

**Graduate student research funding \$399** 2022

Dept. of Linguistics, University at Buffalo.

**3rd place of Alexa Prize Socialbot Grand Challenge 4 \$50,000** 2021

PROTO team, Amazon

**Alexa Prize Team Research Grant \$250,000** 2020

PROTO team, Alexa Prize Socialbot Grand Challenge 4, Amazon

**Linguistics Fellowship Award** 2018 - 2019

Dept. of Linguistics, University at Buffalo.

## Merit-based Five-Year Full Tuition Scholarship

2018 - 2023

Dept. of Linguistics, University at Buffalo.

## Erasmus+ Scholarship

2016

## WORK EXPERIENCE

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### Data analyst, scientist and consultant

2022 - 2024

*IDEX project* - Deep Learning for Language Assessment (DLA)

- Collected and managed large datasets of user data.
- Designed and implemented an algorithmic ETL pipeline and an automated database processing API.
- Developed and computed key metrics for data analysis and model design.

### Research assistant

2020 - 2022

*University at Buffalo* - Under the supervision of Dr. Fabiola Henri

- Developed and implemented automated scripts for data collection and categorization.
- Implemented data quality verification protocols.
- Managed a database dedicated to Creole languages.

### Lead data analyst

2020 - 2021

*Amazon Alexa Prize* - Team Proto

- Helped deploy and manage the project on AWS, funded by a competitive grant (\$250 000).
- Designed and implemented a linguistic model for generating chatbot responses, using advanced NLP techniques.
- Conducted in-depth, result-driven analyses, created interactive dashboard visualizations and provided feedback on a corpus of 346 554 responses.
- Developed an automatic data categorization method that optimized data management, resolving a methodological bottleneck.
- Delivered high-quality data-driven feedback that allowed for a quick product version turnaround which was highlighted as a key contributor to our team's success.

### Graduate Teaching Assistant

2018 - 2020

*University at Buffalo* - Undergraduate Linguistics

2022 - 2023

- Developing, preparing and teaching course material
- Evaluating and grading examinations, assignments and papers
- Holding office hours

### University of Arizona

2017 - 2018

Graduate Teaching Assistant - Undergraduate French

- Preparing and teaching course material as instructor of record
- Evaluating and grading examinations, assignments and papers
- Organizing weekly "Francophone Tables" (informal discussion and activities in French)
- Weekly Tutoring

## COURSES TAUGHT

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### Instructor of record in Linguistics:

Roots of English

Spring 2020 - University at Buffalo

### Teaching Assistant in Linguistics:

Languages of the World

Spring and Fall 2023 - University at Buffalo

Language, Society, and the Individual

Fall 2022 - University at Buffalo

Roots of English

Fall 2019 - University at Buffalo

Language in Pluralistic America

Spring 2019 - University at Buffalo

Introduction to Linguistic Analysis

Fall 2018 - University at Buffalo

### Instructor of record in French:

French 102 (2 sections)

Spring 2018 - University of Arizona

French 201 (2 sections)

Fall 2017 - University of Arizona

### Other relevant experiences:

ESL summer camp resource counselor

2016 & 2017

## SKILLS

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**Programming Languages**

Python, R, Perl, Javascript

**Libraries**

NLTK, CoreNLP, SpaCy, scikit-learn, Transformer models  
Keras, TensorFlow, Pytorch, Pandas, Numpy

**Data Management and Visualization**

SQL, Tableau, Power BI, Matplotlib, ggplot2, Powerpoint

**Web Development**

HTML, CSS, JavaScript

**Tools**

Jupyter Notebooks, Visual Studio, LaTeX, Git, GitHub

**Human Languages**

French (Native), English (Bilingual), German (B1)

## ACADEMIC AND ADMINISTRATIVE SERVICE

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**Chief Excellence Officer** - Graduate Linguistics Association, University at Buffalo

2022-2023

**Member** - Colloquium Committee, University at Buffalo

2022-2023

**Member** - Departmental Space & Resources Committee, University at Buffalo

2021-2023

**Coordinator** - Syntax and Semantics research group, University at Buffalo

2021-2023

**Listserv manager** - Graduate student listserv managing, University at Buffalo

2021-2023

**Member** - Departmental Diversity Committee, University at Buffalo

2020-2023

**Co-author** - "Addressing Institutional Racism in UB Linguistics" document

2020

**Volunteer** - Grievance committee graduate student volunteer, University at Buffalo

2020

**Reviewer** - Mark Diamond Research Fund (MDRF) grant review

2020

**Webmaster** - Graduate Linguistics Association, University at Buffalo

2019-2022

**Chief Excellence Officer** - Graduate Linguistics Association, University at Buffalo

2018-2019

**Volunteer** - Research Seminar: *Disorder : Histoire sociale des mouvements punk/post-punk*

2015