

# Anuk Centellas

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## EDUCATION

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### University of Washington

*MS in Computational Linguistics*

Sept 2025 – Present

### Western Washington University

*BS in Mathematics/Computer Science, BA in Linguistics*

Sept 2021 – June 2025

Honors Interdisciplinary Studies Minor, Outstanding Graduate in Linguistics

## PROJECTS

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### Elizalike Chatbot

Jan 2025

*Natural Language Processing*

Python

- Designed regular expressions to process personal deixis, covering all 1st and 2nd person subject pronouns and the verb be
- Implemented keyword recognition in user input to trigger either predetermined or partially input-dependent responses

### Phoneme Classifier

Nov 2024

*Deep/Machine Learning Project*

Python, Scikit-learn

- Developed an ensemble model of twelve neural networks using `MLPClassifier`
- Applied probabilistic voting to classify vectorized audio inputs as phonemes
- Improved ensemble model performance by giving top performing NNs more votes
- Conducted extensive hyperparameter tuning and compared performance across model types

### Arbitrarily Deep Neural Network

Oct 2024

*Deep/Machine Learning Project*

Python, NumPy

- Pair programmed to implement a fully customizable neural network from scratch using NumPy and argparse
- Supported both classification and regression tasks, minibatching, and an optional verbose mode
- Accepted data files and hyperparameters as command-line arguments for flexible experimentation
- Incorporated periodic evaluation on the development set with real-time performance reporting

## EXPERIENCE

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### Language Revitalization Lab

Feb 2025 – Present

*Documentation, Analysis, and Revitalization in Linguistics (DARLing) - Dr Maura O'Leary* Western Washington University

- Contribute to the revitalization of Hän, a severely endangered Athabaskan language with only five remaining speakers
- Collaborate with six other students on the morphological transducer team, significantly accelerating progress
- Analyze and input Hän nouns and verbs into the transducer code, correcting errors to ensure translation function and accuracy
- Maintain ongoing communication with students and faculty to share progress, challenges, and findings

### Machine Learning Research

April 2024 – June 2025

*Hutch Research - Dr Brian Hutchinson*

Western Washington University

- Collaborated with the Department of Speech, Language, and Hearing Sciences to start a new project transcribing toddler speech
- Lead my team in organizing and assigning tasks, frequent communication, and planning collaborative work sessions
- Onboarded a new student to the team, providing a supportive and gradual introduction to the project topics, goals, and tasks
- Attended weekly lab-wide status meetings, tutorials, and reading groups, as well as team-specific collaborator sessions

## TECHNICAL SKILLS

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Python, Java, NumPy, Pandas, Scikit-learn, Git, Streamlit, Unix, Vim, LaTeX, Advanced Mathematics, VSCode, native speaker of English, Spanish, and Catalan

## COURSEWORK

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Algorithms and Data Structures, Machine Learning, Calculus I, II, III, Linear Algebra, Statistics and Probability, Linguistic Analysis, Phonetics, Phonology, Syntax and Morphology, Semantics and Pragmatics, Spanish Linguistics, Computational Linguistics, NLP, Shallow Processing Techniques for NLP