Anuk Centellas

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Education

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, 4.0 GPA

Experience

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
- Led 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

Projects

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

Technical Skills

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

Coursework

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, Advanced Statistical Methods for NLP