

# E. CIERESZYNSKI

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## SUMMARY

Versatile data-driven linguistics graduate with expertise in deployment and optimization of speech recognition systems, data analysis and NLP in Python and R, and a proven ability to lead and collaborate with cross-functional teams for product delivery. Seeking to leverage skills in a data science, linguistics, or project management role. US citizen with Canadian PR status.

## SKILLS

**Programming:** Python, R, SQL (PostgreSQL, BigQuery, MySQL), HTML/CSS, LaTeX, Git

**Tools and Methodologies:** Microsoft Office, Google suite, Jupyter, Monday, Jira, Tableau, Agile/Scrum, Lean Six Sigma

**Spoken Languages:** English (native), French (C1), Polish (B1)

## PROFESSIONAL EXPERIENCE

### VITAC Canada, Montréal, QC: ASR Software Specialist

May 2023 – Present

- Preparation and annotation of large, varied datasets for training and implementation of automatic speech recognition models
- Creation and deployment of Python code to clean and edit model output, expediting training data preparation by 50%
- Rigorous user acceptance and A/B testing of software functionalities for R&D processes
- Close collaboration with diverse cross-functional teams in the United States, Canada, and Israel to contribute to product development and enhancement throughout software integration and deployment cycles

### VITAC Canada, Montréal, QC: Live Vocal Captioner

August 2021 – May 2023

- Implemented ASR models through live vocal captioning, achieving 97% overall accuracy across output files
- Performed linguistic quality assurance on over 500 output transcripts to train, tune, and refine acoustic and language models
- Conducted extensive independent research to add, annotate, or correct more than 80,000 terms in language models, comprising over 30% of total model vocabulary

## ADDITIONAL EXPERIENCE

### Starbucks Coffee, Montréal, QC: Shift Supervisor

July 2020 – August 2021

- Directed dynamic teams of 10-15 employees in Québec's then-busiest Starbucks location, overseeing all floor operations
- Closely monitored customer, sales, and inventory metrics to effectively allocate resources and construct plays
- Demonstrated excellent adaptability and communication, problem-solving, and conflict resolution skills
- Maintained customer satisfaction, product excellence, and a culture of continuous improvement as core priorities

## EDUCATION

### B.A., Linguistics

February 2020

McGill University, Montréal, QC, Canada

3.72 GPA

Additional coursework: Statistics for Experimental Design, Foundations of Programming, Deductive Logic

## CERTIFICATIONS

- Google Data Analytics Professional Certification: Foundational (2022), Advanced (2024)
- Google Project Management Professional Certification (2023)

## PERSONAL PROJECTS AND RESEARCH

### Demographically informed linguistic analyses of online game chat message data

July 2023, January 2024

Python (pandas, NumPy, matplotlib, seaborn, VADER, NLTK/TextBlob, spaCy, SciPy), R (tidyverse, tidytext, R Markdown), SQL

- Compiled, cleaned, and preprocessed 10,000-message text corpus and demographic information of speakers
- Performed EDA, statistical analysis, data visualization, and linguistic investigations such as sentiment analysis
- Constructed PostgreSQL database for maintenance and management of linguistic and demographic data
- Wrote research papers in R Markdown and LaTeX and published papers via GitHub

### Topic modeling with latent Dirichlet allocation and non-negative matrix factorization

May 2022, January 2024

Python (scikit-learn, gensim)

- Trained, tuned, and deployed unsupervised machine learning algorithms to explore underlying topics in large text corpora
- Carried out additional demographic analysis and visualization in January 2024 project

### Predicting different leg colour with supervised classification

March 2022

Python (pandas, NumPy, matplotlib, seaborn, scikit-learn, k-modes)

- Deployed classification & clustering algorithms (logistic regression, random forests, SVM, k-modes) to predict a target feature
- Performed feature engineering, tuned model parameters, evaluated models, and analyzed and visualized results
- Wrote research paper in LaTeX and published paper via GitHub

## ACADEMIC RESEARCH

### Lexical Variation and Gender in Informal Social Media Environments

Spring 2018

Research study conducted for sociolinguistics course

- Selected for presentation at 2019 iteration of CLAUSE (Canadian Linguistics Annual Undergraduate Symposium)