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## RESEARCH HIGHLIGHTS

### **Building a Twitter Scraper & a Prototype Dictionary-based Sentiment Analyzer**

Northern Arizona University, Completed individually, 2021

- Created several Python programs and collected Tweets (N = 3,200) from Twitter and built a corpus of Tweets
- Created a prototype dictionary-based sentiment analyzer and created a scoring system of the sentiment
- Compared the scoring by the prototype dictionary-based sentiment analyzer against the one by pre-trained machine learning sentiment analyzer
- Discussed the implications for sentiment dictionary building and applied linguistics research

### **Second Language (L2) English Speaker Analysis**

Northern Arizona University, Completed individually, 2020

- Interviewed a non-native English speaker (N = 1) and collected the speech data by recording the interview with a semi-structured protocol
- Comprehensively analyzed the speech data at the levels of phonetics and phonology, morphology, syntax, and semantics/lexicon, with the main features listed below:
  - Phonetics and phonology: stress, rhythm, accuracy of vowels, consonants (with accurate transcription using IPA when necessary)
  - Morphology: inflectional and derivational morphemes
  - Syntax: irregular past, comparative and superlative degrees of an adjective, third-person singular form
  - Semantics and word choice: involving correct usage of words
- Described the characteristics of the speaker's speech and summarized the speaker's strengths and weaknesses
- From the perspective of L1-L2 transfer, analyzed the features of the speaker's speech and summarized the features that were rooted in the speaker's first language (L1) and the ones that were independent of the speaker's L1
- Provided a summary of potential instructional priorities on improving the speaker's English speaking

### **Characteristics of a Reading Comprehension Assessment:**

#### ***Measures of Validity and Reliability***

Northern Arizona University, Completed with a research partner, 2020

- Developed a test to measure native and non-native English speakers' reading comprehension in the context of academic English (N = 26)
- Investigated the validity and reliability of the test
- Examined the test results by referring to descriptive statistics (mean, mode, midpoint, maximum, and minimum) and data distribution (standard deviation, skewness, and kurtosis of the curve)
- Discussed whether there was a statistically difference between the test results of native speakers and those of non-native speakers

### **Native and Non-native Speakers' Perception of American English Dialects**

Northern Arizona University, Completed with a research partner, 2020

- Discussed to what extent both native and non-native speakers perceive different dialects in the US regarding correctness and pleasantness (N = 54)
- Performed independent t-tests of correctness and pleasantness scores to examine whether there was statistically significant differences between native and non-native speakers' ratings in terms of correctness and pleasantness
- Discussed the implications for language teaching and teacher training

TEACHING  
EXPERIENCE

**Academies of Mathematics and Science (AMS), South Mountain**, Phoenix, AZ  
Foreign Language Teacher 07/2021 - Present

- Teach Mandarin Chinese at K-8 levels as a full-time teacher
- Use measurable data to track student performance and enrich their progress with visible results
- Stick to district and Arizona curriculum standards to teach students above and below grade-level through a differentiated approach

**Northern Arizona University (NAU)**, Flagstaff, AZ  
Instructor of Chinese 08/2019 - 04/2021

- Taught CHI 101, 102, 201, and 202 as a part-time instructor
- Assisted in curriculum design and management
- Designed curriculum and created test items
- Received exceptional student satisfaction rate

**Washington University in St. Louis (WUSTL)**, St. Louis, MO  
WUSTL-ALLEX Teacher Training Institute Practice Teacher 06/2019 - 07/2019

- Co-taught CHI 101 in Summer 2019
- Underwent intensive full-time training included basic principles of effective Chinese language pedagogy, classroom teaching techniques, the linguistic analysis of Chinese

PROFESSIONAL  
EXPERIENCE

**Center for International Education, NAU**, Flagstaff, AZ  
Graduate Assistant, *part-time* 08/2019 - 05/2021

- Worked primarily as an international social media content specialist and produced posts regularly on NAU official social media platforms such as WeChat, Weibo, Tik-Tok - Chinese version (*Douyin*) and RED (*Xiaohongshu*)
- Developed marketing and promotional materials and participated in social media operation by ensuring adherence to NAU social media guidelines and procedures
- Completed other assigned tasks, including but not limited to organizing materials and helping incoming international students find solutions and resources to ease their transition

**1000 Internet and Culture Studio, Hunan University (HNU)**, Changsha, China  
Full Stack Developer, *part-time* 12/2013 - 06/2017

- Worked in the core developer team on several projects involving comprehensive expertise in full stack developer. Highlight projects include: *Grades Lookup System*, *Incoming Student Orientation*, and *HNU Online Bulletin Board*.
- Collaborated closely with technical and non-technical team members, especially designers and content specialists to delivered up-to-date website
- Performed code optimization and code refactoring; built simple, sustainable, and versatile code

**Global Launch, Arizona State University (ASU)**, Tempe, AZ  
Chinese - English Interpreter & Translator, *part-time* 09/2016 - 12/2016

- Conducted Chinese-English consecutive interpretation and translation for the visiting scholars from China, PAC-12 professional coaches and experts from ASU, National Collegiate Athletic Association (NCAA) and Pacific-12 (PAC-12)

INTERNSHIP AND  
VOLUNTEERING

**Yuelu Academy**, Changsha, Hunan, China  
Chinese History Specialist, Translator, and Interpreter 06/2016

**Emperor Qin's Mausoleum Site Museum**, Lintong, Xi'an, Shaanxi, China  
Chinese History Specialist, Translator, and Interpreter 07/2015 - 08/2015

**The French Institute, Embassy of France in China**, Beijing, China  
Community Interpreter and Tour Guide 12/2014

**Government of Hunan Province**, Changsha, Hunan, China  
Community Interpreter at the China (Changsha) Mineral and Gem Show 05/2014

INTERNAL SERVICE	<b>Master of Arts Public Relations Officer</b> Graduate Student Association of TESL and Applied Linguistics (GSALL) Northern Arizona University, 2019-2021
	<b>Internal Vice-President</b> Postgraduate Association of the Chinese University of Hong Kong (CUPSA) The Chinese University of Hong Kong, 2017-2018
CERTIFICATES	<b>Programming in C - Level II</b> National Computer Rank Examination (NCRE) Certificate #24424303089153 Ministry of Education of China, 03/2015 - No expiration
	<b>Mandarin Proficiency - Level 1B</b> Putonghua ( <i>Mandarin</i> ) Proficiency Test (PSC, by its initials in Chinese) Certificate #4314034000159 Ministry of Education of China, 04/2014 - No expiration
	<b>Advanced Application of Microsoft Office - Level II</b> National Computer Rank Examination (NCRE) Certificate #65394304928050 Ministry of Education of China, 03/2014 - No expiration
MEMBERSHIPS	Association for Computational Linguistics (ACL) American Council on the Teaching of Foreign Languages (ACTFL) TESOL International Association (TESOL) Chinese Language Teachers Association (CLTA)
LANGUAGES	<b>Native:</b> English, Chinese (Mandarin, Cantonese, Xiang) <b>Intermediate:</b> Spanish, French <b>Elementary knowledge:</b> Japanese, Korean, Malaysian, Indonesian <b>Ancient language (reading):</b> Ancient Chinese
SKILLS	<b>Programming:</b> <b>Languages:</b> Python, C/C++, Java, Swift, Go <b>Environment:</b> Desktop, Server, Cloud: Amazon Web Services (AWS), Google Cloud <b>Operating system:</b> Linux: Ubuntu & CentOS + terminal commands, macOS, Windows <b>Version Control:</b> GitHub <b>Analysis:</b> <b>Data analysis:</b> Excel, SPSS, Tableau, R <b>Machine learning:</b> Scikit-learn, SciPy, PyTorch, Tensorflow, Keras <b>Web Development:</b> <b>Front end:</b> HTML, CSS, JavaScript, jQuery, Angular, Vue.js <b>Back end:</b> PHP, node.js, Apache <b>Database:</b> mySQL, PostgreSQL, MongoDB <b>Content Processing:</b> <b>Text:</b> Microsoft Office, L <sup>A</sup> T <sub>E</sub> X, XML <b>Multimedia:</b> Audition, Photoshop, Apple Final Cut Pro
DATE COMPLIED	Wednesday, November 3, 2021