ZACHARY P ROSEN

Computational Linguist, M.A., M.A.

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Education

2021
Master of Arts – Language Science
University of California, Irvine
Irvine, CA

2018
Master of Arts – Linguistics
University of Colorado, Boulder
Boulder, CO

2013
Bachelor of Arts in English Language
Carroll College
Helena, MT

Publications

Rosen, Zachary & Dale, Rick. (*under revision*). BERTs of a Feather: Studying Inter- and Intra-group Communication Using Information Theory and Artificially Intelligent Language Models. *Behavior Research Methods.*

Rosen, Zachary. (2022). A BERT's Eye View: A Big Data Framework for Assessing Language Convergence and Accommodation. *Journal of Language and Social Psychology*.

Rosen, Zachary. (2018). Computationally Constructed Concepts: a machine learning approach to metaphor interpretation using usage-based construction grammatical cues. *Proceedings of the NAACL Special Workshop on Figurative Language*.

Rosen, Zachary. (2018). *Disembodied Entities: Linguistic Factors Determining Semantic Role Assignment of Target Domain Referents in Metaphoric Duals*. MA Thesis. University of Colorado, Boulder.

Grants and Awards

Radden Mueller-Ochoa Legacy Award for Excellence in Communications Education (2019)

MA Linguistics Graduate Research Small Grant Awardee (2018)

Peg Taylor Award for Excellence in Communications (2011)

Data Science and Computational Linguistics Experience

2022 - 2023
Sr. Data Scientist / Computational Linguist
Wizard Inc – Remote
Notes: User Behavioral Modeling, Socio-Semantic Networks, (Large) Language Model Monitoring and Evaluation development

2021 - 2022
Language Engineer
Amazon – Remote
Notes: Language Data Processing & QA, Intent Modeling with Language Models

2021 - 2022
Data Scientist
Brainstorm STEM LLC – Irvine, CA
Notes: Automatic scheduling Viterbi algorithm, Customer sentiment reporting

2017 - 2018
Graduate Student Coordinator/ Monitoring and Evaluation Statistical Analyst
TRiO Student Support Services (University of Colorado at Boulder) – Boulder, CO
Notes: Text processing and visualization for program sentiment, Predictive statistical methods for program evaluation

2014 - 2016
Peace Corps Volunteer
United States Peace Corps – Atacora Region, Benin, West Africa
Notes: Local language documentation liaison, android app development for local language documentation

Teaching Experience

2018 - Present
Adjunct Professor
Saddleback Community College (Communication Studies Department) – Mission Viejo, CA
Notes: COMM 1 (Communication Fundamentals), COMM 106 (Collegiate Forensics Team)

2019 - 2021
Teaching Assistant
University of California, Irvine – Irvine, CA

2021 - 2022
Educational Software Developer
Brainstorm STEM LLC – Irvine, CA
Notes: Blockly application for ML curriculum developer, "basics of machine learning" curriculum developer

2019
Machine Learning Curriculum Developer
Digital Media Academy – Irvine, CA
Notes: Machine Learning Curriculum Developer

2018
Machine Learning and Java Programming Instructor
Digital Media Academy – Irvine, CA
Notes: Lead Machine Learning instructor

2017 – 2018
Graduate Student Coordinator
TRiO Student Support Services (University of Colorado, Boulder) – Boulder, CO
Notes: REACH Program curriculum developer

2016 – 2017
Sustainability and Social Innovation Program Teaching Assistant
Sustainability and Social Innovation RAP (University of Colorado, Boulder) – Boulder, CO

2014 – 2016
Peace Corps Volunteer
US Peace Corps –Atacora Region, Benin, West Africa
Notes: TEFL Instructor, TEFL instructor professional development curriculum lead

Other Experience

2014 - 2016
Language Consultant
Cognizant Technology Solutions – Helena, MT

2014 - 2016
Communications Coordinator
Montana State AFL-CIO – Helena, MT

Graduate Student Mentoring

2020 - 2021
Graduate Student Mentor
University of California, Irvine – Irvine, CA
PIRE Program mentor, Primary mentor for undergraduate lab aids and statistical trainer CoLa Lab

2020
Graduate Student Peer Mentor
University of California, Irvine – Irvine, CA
Mentor for incoming Graduate Student as part of Peer Graduate Student Mentor Program

Membership in Professional Organizations

Association for Computational Linguistics (2018 - present)

Service to Profession

2022 - 2023
Editorial Board Member
Special Issue on Communication Accommodation Theory, *Language Sciences*