Statement of Purpose - Computational Linguistics Research

## Personal Journey

My path to computational linguistics began through lived experience with linguistic marginalization of my native Kurdish and Laki languages in Iran. Witnessing how systemic policies suppressed these rich linguistic heritages ignited my determination to use technology for linguistic justice and cultural preservation.

## Research Vision

I aim to develop computational methods and resources for low-resource languages, with focus on:

- Creating the first comprehensive NLP tools for Kurdish and Laki languages

- Building cross-lingual transfer models leveraging Arabic as a bridge language

- Developing culturally-aware AI that understands linguistic nuances

- Empowering diaspora communities through digital language technologies

## Unique Qualifications

- Native proficiency in Kurdish, Laki, and Arabic - a rare combination

- Technical skills in Python, NLP, and machine learning

- Proven resilience and discipline as a national martial arts champion

- Deep cultural understanding of linguistic preservation needs

## Technical Approach

My research will employ transfer learning, multilingual modeling, and low-resource NLP techniques to address the critical gap in computational resources for Kurdish and Laki languages. I will create parallel corpora, develop dialect-aware models, and build practical tools for language communities.

## Long-term Impact

I envision creating technologies that allow Kurdish and Laki to flourish digitally, transforming linguistic preservation from activism to technological innovation. This work has potential for significant impact in digital humanities, cultural preservation, and equitable AI development.