

# Behrooz Vedadian

Résumé

## Education

2013-Present Ph.D. Candidate, Amirkabir University of Technology, Artificial Intelligence, GPA – 19/20.

Research field: "Statistical Machine Translation" under supervision of Dr. Mohammad Rahmati and Dr. Shahram Khadivi

2005–2008 **M.Sc.**, *Amirkabir University of Technology*, Communication Systems Engineering, *GPA* – 15.01/20.

Thesis title: "Signal Detection in Nonstationary Environments using Wavelets" under supervision of Dr. Hamidreza Amindavar

2000–2005 **B.Sc.**, Sharif University of Technology, Electrical Engineering, GPA – 15.10/20. Thesis title: "Speaker Identification using HMMs" under supervision of Dr. Mohmmad Mahdi Nayebi

1996–2000 **Diploma**, National Organization of Development of Exceptional Talents(NODET), Mathematics and Physics, GPA – 19.5/20.

## Experience

#### Vocational

2015-Present Researcher and Senior Software Engineer, TARGOMAN INTELLIGENT PROCESSING CO., Tehran.

- A Computer Assistant for translation was designed and implemented which is named Tarjomyar, built using javascript language while preserving the modularity and object oriented design.
- An experimental Neural Machine Translator for English-Persian was trained and successfully integrated into Tarjomyar.
- Using basics from libevent a very fast http API server was developed having Marian-NMT at its core (#).

- 2013–2015 Researcher and Senior Software Engineer, HLT LAB, Amirkabir University of Technology.
  - We used Moses open source statistical translation system to develop an online translation service for Persian-English languages.
  - A text processing library was developed to preprocess, tokenize and enhance input sentences given to translation service.
  - We also developed a robust open source phrase based statistical machine translation decoder title Targoman available on GitHub. This was done to remedy the instability and unintegrated software design of Moses toolkit.
- 2009-2014 R&D Engineer, HODA SYSTEM CO. LTD., Tehran.
  - We developed a Persian printed text recognition software which included layout analysis.
  - We also tailored the OCR library for extraction of Egyptian ID card information in course of cooperation with Egypt City Bank Co.
  - We also incorporated natural language processing for improving the OCR results quality
  - I developed a couple Web Applications for a demonstration version of digital document archiving that used OCR and image processing techniques to ease information extraction

#### Teaching

- 2001 **Teacher's Assistant**, COMPUTER PROGRAMMING, Sharif University of Technology.
- 2014 Teacher's Assistant, STATISTICAL NATURAL LANGUAGE PROCESSING, Amirkabir University of Technology.

Instructed by Dr. Shahram Khadivi

#### Miscellaneous

1998-2013 Freelance.

I have participated in various software development tasks using wide range of tools and programming languages ranging from FoxPro! to 8051 assembly and prepared a detailed Pascal programming tutorial for Roshd magazine.

#### Awards

- 1997 Ranked 5<sup>th</sup> in Iranian national computer programming contest, held in Tehran.
- 1998 Ranked 3<sup>rd</sup> in Iranian national computer programming contest, held in Isfahan.
- 1999 Qualified to enter the second level of national students Physiscs Olympiad
- 1999 Qualified to enter the second level of national students Mathematics Olympiad
- 2013 Ranked 9th in national Ph.D. entrance examination

## Computer skills

Basic Perl, JAVA, Inkscape

Intermediate PYTHON, Linux, BASh Scripting, Adobe Photoshop

Advanced C++, C#, LATEX, MatLab, PHP, HTML, JavaScript, CSS

#### Languages

Persian Mothertongue

English Fluent

South Kerman Street, Rezayee Alley, No.7, Unit 6 – Tehran, Iran \$\infty\$ +98 915 584 0296 • \$\infty\$ +98 21 2250 2137 \$\infty\$ vedadian \( \mathref{Q}\) aut.ac.ir • \( \mathref{Q}\) vedadian.com

## Interests

- Research on Machine Learning
- Drawing and Painting
- Storytelling and Cinema
- Mathematics
- Graphic Design