

Farnoosh JAVADI

[in linkedin.com/in/farnoosh-jvd](https://www.linkedin.com/in/farnoosh-jvd) [fjavadi.github.io](https://github.com/fjavadi)
+1 778 886 8032 @ fjavadi@cs.ubc.ca
Vancouver, BC



EDUCATION

- | | |
|----------------|--|
| 2018 - Present | University of British Columbia, VANCOUVER, BC, Canada <ul style="list-style-type: none">M.Sc. in Computer Science. GPA : 90/100 |
| 2013 - 2018 | Sharif University of Technology, TEHRAN, Iran <ul style="list-style-type: none">B.Sc. in Software Engineering. GPA : 17.75/20 |

SKILLS

Programming	Python, Java, C, C#, matlab
ML Frameworks	Pytorch, Keras
ML Paradigm	Computer Vision, Natural Language Processing
Web	Django, HTML, CSS, JavaScript
Database	SQL, MDX

PROFESSIONAL EXPERIENCE

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| 2019 - Present | Graduate Research Assistant, UNIVERSITY OF BRITISH COLUMBIA, Vancouver <ul style="list-style-type: none">Working under the Supervision of Prof. James Little and Prof. Helge Rhodin at Computer Vision Lab.Thesis title : Hierarchical Part-based Disentanglement of Pose and AppearanceLearning interpretable image representations from unlabeled data, which encode objects' parts, their hierarchy, and their disentangled pose and appearance. <div>Pytorch Computer Vision Deep Learning</div> |
| 2017 - 2018 | Research Assistant, SHARIF UNIVERSITY OF TECHNOLOGY, Tehran <ul style="list-style-type: none">Learning Persian Word Embedding, and inferring semantic relationships between word embeddings. <div>Natural Language Processing Machine Learning Visualization</div> |
| Summer 2017 | Data Analyst Intern, TOSAN INTELLIGENT DATA MINERS COMPANY, Tehran <ul style="list-style-type: none">Automatization of analysis of system logs to detect anomalies in data marts. <div>Text Mining SQL MDX</div> |

TEACHING EXPERIENCE

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| 2018 - Present | Graduate Teaching Assistant, University of British Columbia, VANCOUVER, BC, Canada <ul style="list-style-type: none">Computer VisionMachine Learning and Data MiningIntermediate Algorithm Design and AnalysisIntroduction to Relational Databases |
| 2013 - 2018 | Teaching Assistant, Sharif University of Technology, TEHRAN, Iran <ul style="list-style-type: none">Modern Information RetrievalAdvanced Programming in JavaFundamentals of Programming (C)Computer Networks |

HONORS AND AWARDS

- | | |
|-------------|---|
| 2013 - 2018 | Premium member of Iran's National Elites Foundation |
| Summer 2012 | Silver Medal in the 30th Iranian National Mathematical Olympiad |
| 2006-2013 | Member of the National Organization for Development of Exceptional Talents (NODET) |

PROJCT HIGHLIGHTS

DANCE MOTION TRANSFER

WINTER 2019

[Project Report](#)

Designed and trained a model for transferring dance motion and background from a source video to a target video, using pose as an intermediate representation, and the median pixel value across all frames as a background.

[Pytorch](#) [Video to Video Translation](#) [Pose Detection](#) [Background Detection](#)

TEXT TO IMAGE

WINTER 2018

[Project Report](#)

Trained a model for translating texts into images, using text embedding as the intermediate representation. To assess the importance of text embedding in the task of text-to-image synthesis we tested different text encoders, and achieved state-of-the-art results with simpler text embedding than the baseline.

[Pytorch](#) [Text to Image Translation](#) [GAN](#)

FAKE NEWS DETECTION

WINTER 2018

[Source Code](#) [Project Report](#)

Designed a model for fake news detection, using CNNs as the text encoder and on top of that having an attention layer to focus more on important parts of the text.

[Pytorch](#) [CNN](#) [Attention](#)

RECIPE AND FOOD IMAGE RETRIEVAL

FALL 2018

[Project Report](#)

Proposed a model that aimed to learn embedding of cooking recipes and food images, which yielded good results on retrieving images of cooking recipes and retrieving cooking instructions for food images.

[Pytorch](#) [GCN](#) [LSTM](#) [Information Retrieval](#)

EXTRACURRICULAR EXPERIENCE

2015-2016	Elected as one of the nine major members of Computer Engineering Department's Student Scientific Chapter (SSC) of Sharif University of Technology <ul style="list-style-type: none">> SSC is a student committee concerned with holding seminars, workshops, programming contests, and other extracurricular activities.
2015-2016	Voluntarily taught Mathematics and Alphabets to Afghan child workers, those who were deprived of education at Iranian Child Labor Community
2014, 2015, 2016	Certified Staff, 39th, 40th, and 41th ACM International Collegiate Programming Contest, Asia region site, Sharif University of Technology

LANGUAGES

Persian ● ● ● ● ●
English ● ● ● ● ●

+ STRENGTHS

- > Quick learner
- > Passionate for Learning New Things
- > Good Team Player