

MARYAM BAFANDKAR

66 Kate St. Winnipeg MB Canada | 1 (204) 333 65 31 |

Bafandkar-m@webmail.uwinnipeg.ca



EDUCATION

- **M.S Computer Science (current)**, University of Winnipeg, Canada | current GPA: 4.42
- **B.Sc. Computer Engineering, Software (2009)** Islamic Azad University, Shiraz, Iran | Iranian GPA: 15.19(out of 20) | Canadian GPA: 3.48(out of 4.5)
- **Associate Computer Engineering, Software (2007)**, Shiraz Technical and Vocational Institute, Shiraz, Iran | Iranian GPA: 15.69(out of 20) | Canadian GPA: 3.51(out of 4.5)
- **High School Diploma** Iranian GPA: 17(out of 20) | GPA: 3.87
- **Last 60 Credit:** GPA: 4.05

PUBICATION

- Dalvand, E. and Bafandkar, M. (2017). **An approach to feature selection based on rough set theory and intelligent water drops algorithm**. In: 5th International Conference on Electrical and Computer Engineering. [online] Available at: https://www.civilica.com/Paper-COMCONF05-COMCONF05_099.html
- Dalvand, E. and Bafandkar, M. A novel intelligent water drops approach to feature selection based on rough set theory Preparing for a peer reviewed journal
- Liao, S, Bafandkar, M. Using artificial neural networks on IRIS plants classification. Preparing for a peer reviewed journal
- English to Farsi Translation of a technical book **Interaction Design Foundation** Author: Mads Søgaard Published online: <https://tinyurl.com/yc3logy6>

RESEARCH EXPERIENCE

Accelerate Intern Researcher

- Project:** Enabling the next revolution in global food production through automatically labelled data sets and machine learning.
- Company:** Mitacs, Winnipeg, Manitoba
- Year:** 2019-present
- Supervisor:** Dr. Christopher Henry
- Responsibilities:**
- Researching on Deep Learning algorithms have been worked on Agricultures purpose.
 - Discovering the best Machine Learning model based on Mathematics and computer science algorithms with a high accuracy on a large dataset of crops and weeds images which are preparing by our team at the university of Winnipeg.
 - Preparing an academic paper to publish my experiments of Deep Learning architectures to distinguish between plant and weeds and determine the health condition of plant.

Research Assistant

- Project:** Investigations on solving the Feature Selection problem using Rough Sets Theory and Intelligence Water Drops Algorithm
- Company:** owwwlab.com, Iran
- Year:** 2016
- Supervisor:** Ehsan Dalvand
- Achievements:**
- Improved Artificial Intelligence algorithm using Rough Set Theory, "Intelligence Water Drops Algorithm", to find the shortest path faster and more accurate.
 - Accepted to 5th International Conference on Electrical and Computer Engineering (Ieeec.ir), 2017, Tehran, Iran.

Research Assistant

- Project:** Modeling RFID systems and security implications.
- Organization:** Shiraz University
- Year:** 2010
- Supervisor:** Dr. Rayouf Khayami
- Achievements:**
- Improved the frequency of the RFID reader to recognize the RFID sticks.
 - Upgraded the parking system of recreational complex and shopping center of Setareh Fars in Shiraz by using RFID technology
 - First successful implemented of the RFID system for the parking system in Shiraz, Iran.

RESEARCH INTERESTS

- Artificial Intelligence
- Swarm Intelligence Techniques
- Data Science
- Machine Learning
- Social Aspects of Human Beings

WORK EXPERIENCE

Web Designer and Advisor

- Organization:** owwwlab.com
- Year(s):** 2016-2017
- Responsibilities:**
- creating the look, layout, and features of a website.
 - keeping the site up-to-date with latest versions of Java Scripts and CSS.

- Developed content management methods along with designing related video and audio clips according to the requested content, using Adobe After Effect, Photoshop, and editing audio software.
- Write weekly project progress reports and responsible for developing new ideas.
- Key achievement: Received 97% positive customer survey results.

Freelance Web Designer

Organization: -

Year(s): 2017-2018

- Responsibilities:**
- creating the look, layout, and features of a website.
 - keeping the site up-to-date with latest versions of Java Scripts and CSS.
 - Developed content management methods along with designing related video and audio clips according to the requested content, using Adobe After Effect, Photoshop, and editing audio software.
 - Write weekly project progress reports and responsible for developing new ideas.
 - Key achievement: Received 97% positive customer survey results.

Full-stack Web Developer

Organization: Airin Pars Media, Shiraz, Iran

Year(s): 2014-2016

- Responsibilities:**
- Designed architecture and implemented the front-end and back-end of web application products using Html, CSS and JavaScript libraries with more than 400 components and plugins.
 - Experience dealing with WordPress and Content Management System security issues.
 - Improved the current reporting system by plotting graphs and charts more efficiently.

- Key achievement: Achieving Elite award on Envato online market as one of the best developer team by selling more than 500 web software products per month.

AWARD

Elite Theme Designer on Envato.com

owwwlab.com (2016)

Toranj Responsive Creative HTML Template

“Honorable Mention of the day” for website design at awwwards.com (2014)

<https://www.awwwards.com/sites/toranj-responsive-creative-html-template>

COMMUNITY EXPERIENCE

Discussion Panelist

Canadian Museum for Human Rights, Winnipeg, Manitoba (31/01/2020)

Night of ideas event is to celebrate the stream of ideas between 5 countries, different cultures, topics and generations. Successful people from diverse backgrounds - intellectuals, researchers, artists as discussion panelist are invited to have talk about their innovative ideas and projects they have done. The theme of the I have been invited to was “Innovation for Better Lives”.

Link: <https://humanrights.ca/la-nuit-des-idees-night-of-ideas>

I was the only masters student in the province of Manitoba to be invited as a panelist to Night of ideas event 2020.

The Head of the Section of Otolaryngology, Dr. Gigi Osler, Project Director of the Winnipeg Boldness Project, Diane Roussin, and the Founder of ioAirFlow company, Matt Schaubroeck, were the other panelists.

3-Minute Thesis Competition at the University of Winnipeg

The 6th Annual University of Winnipeg Graduate Studies (14/03/2019)

Link: <https://www.youtube.com/watch?v=u3qvEs53B1g>

VOLUNTEERING EXPERIENCE

Assistant at NVIDIA - Keynote Address, Manitoba's Future in HPC-2019

University of Winnipeg. (05/06/2019)

Register assistant

MudHero competition in Manitoba, Canada. (27/07/2019)

Support and maintenance

Support customers' questions, issues and also online supporting via emails at Freelancer. (2016-2018)

Dance performance group

Volunteer member of dance performance group for the Iranian Community of Manitoba. (March,2019)

Member of Eco-Green Shiraz Club

Eco-Green Shiraz Club member. My duties included cleaning up a local park once a month and planting native flowers and plants on mountains to maintain a greener environment. (2002-2017)

Meeting organizer

Teacher, meeting organizer, social media manager of Andisheh Parsi Association of Shiraz University, Iran. (2005-2007)

Assistant at Iranian women community

Volunteer member of Woman's Organization of Iran (2004-2006)

Volunteer in Narges Shiraz Institute

Volunteer book reader for children with mental diseases every week at Narges Shiraz Institute NGO. (2003)

LEADERSHIP EXPERIENCE

- **Leadership experience** at Owwwlab web design company. I was responsible for managing the company interns, teaching them basic programming skills, workplace culture, rules, and regulations, providing them with their weekly performance report. Every year the company accepts new interns and I prepared orientation sessions for the interns.

- **Exhibition organizer and coordinator** for 2 national conferences, responsible for discussing advertisement opportunities with expert companies, preparing contract draft and managing exhibition executive staff.

WORKSHOPS

Discovering the Entrepreneur Within

Mitacs workshops, at Fort Garry Hotel, Winnipeg, Manitoba. (Feb.,05 2020).

Instructor: Roger Patterson

Discovering the Entrepreneur Within was the most amazing workshop I've ever attended. It has provided analyze successful entrepreneurial ventures and identify what it took for those entrepreneurs to reach their goals. Using an interactive, team-based approach. It built awareness of the current Canadian entrepreneurial landscape and resources available to those looking to start their own business. At last hours of workshops group of teams were created and provided the high-tech product or service to practice of being entrepreneur.

Networking Skills

Mitacs workshops, University of Winnipeg, Winnipeg, Manitoba. (March,13 2020)

Instructor: Dolores Wollbaum

It provided to insight and interaction along with the know how to build and stabilize business relationships through effective networking.

Foundations of Project Management

Mitacs workshops, at Fort Garry Hotel, Winnipeg, Manitoba. (October,29 2019).

Instructor: Diane Fletcher

It provided an experiential, collaborative learning experience to enable us to integrate the principles of project management, team building, group dynamics and leadership that can be applied immediately and in their future careers and lives. I experienced the processes of collaborative planning and management and can see the benefits of project management.

SKILLS

- **Machine Learning:**
Tensorflow, Keras, Pandas, Numpy
- **Content Management System:**
WordPress, Drupal
- **Language Programming:**
C++, CUDA, Python

- **Web design:**
HTML, CSS, LESS, UI, UX, AngularJS, JavaScript, ReactJS
- **Web development:**
Python, PHP, MySQL, Laravel, Django
- **Graphic Design:**
Adobe Photoshop, Sketch, Corel Painter, After Effect
- **Project management:**
Trello, Asana, Monday
- **Social media:**
Facebook, Twitter, Instagram, LinkedIn, Skype
- **Computer skills:**
Microsoft (Words, Excel, PowerPoint)
- **Communication:**
Zoho Meeting, Slack, Speek, Team Viewer
- **Maintenance and support:**
Ticksy Forum, Envoke, Asset Panda
- **Time management:**
Harvest, Avaza, Toggle

LANGUAGES

- Persian (native)
- English (fluent)
- Spanish (elementary)
- Arabic (elementary)

PERSONAL INTEREST

- Social Activities
- Photography
- Hiking
- Camping

LINKS

- GitHub: <https://github.com/maryammod/>
- Personal Blog: <https://maryambafandkar.me/>

- Facebook: <https://www.facebook.com/mmaarryyaamm>
- Twitter: <https://twitter.com/maryambhrr>
- LinkedIn: <https://www.linkedin.com/in/maryam-bafandkar-664b1b33/>