Alireza Shafaei — Curriculum Vitae (July 28, 2014)

Personal Information

ICICS building, University of British Columbia
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Education

- **University of British Columbia**
  M.Sc. in Computer Science, Vancouver, Canada — Sep 2013 - Jul 2015 (Expected)
  Cumulative Grade Average: 90.3/100
  - ◇ Supervisor: Professor James J. Little.
  - ◇ Courses: Numerical Optimization, Machine Learning Theory, Image Understanding II, Machine Learning & Optimization, Algorithm Design & Analysis, Human Computer Interaction.

- **Amirkabir University of Technology** (Tehran Polytechnic)
  B.Sc. in Computer Engineering, Tehran, Iran — Sep 2009 - Jun 2013
  Cumulative Grade Average: 17.07/20
  Major Grade Average: 18.15/20
  - ◇ Bachelor's Thesis (20/20): "*Design and Implementation of an Article Recommender System using Probabilistic Topic Models*" under supervision of Prof. Khadivi.

- **Shahid Ejei High School (SAMPAD)** — Sep 2006 - Sep 2009

Research Interests

- ◇ Computer Vision
- ◇ Deep Learning
- ◇ Machine Learning
- ◇ Optimization

Honors and Awards

- ◇ Awarded **International Tuition Scholarship**, Vancouver, Canada, 2013.
- ◇ 2nd place award of the 13th **International Data Mining Cup**, Berlin, Germany, 2012.
- ◇ In the **top 4%** students of GPA rankings at computer engineering school, 2013.
- ◇ 1st place award of 12th **Khwarizmi Young Award**, 2011.
- ◇ 2nd place award of 10th **Khwarizmi Young Award**, 2009.
- ◇ Recipient of **National Elite Foundation Scholarship**, 2009.
- ◇ Recognized as a **'Scientific Elite'** by the National Elite Foundation of Iran, 2009.

Publications

- ◇ A. Gupta, **A. Shafaei**, J. J. Little and R. J. Woodham, "Unlabelled 3D Motion Examples Improve Cross-View Action Recognition", in Proc. of British Machine Vision Conference (BMVC), Nottingham, UK, 2014.

Research & Extra Curricular Activities

The Laboratory for Computational Intelligence
University of British Columbia, Vancouver, Canada, 2013 - present
Research Assistant - Supervisor: Prof. James J. Little

- ◇ Research in human pose estimation and action recognition.

Data Mining & Natural Language Processing Laboratory
Amirkabir University of Technology, Tehran, Iran, 2011 - 2013
Research Assistant - Supervisor: Prof. Shahram Khadivi

- ◇ Research on integration of probabilistic topic models in article recommender systems.
- ◇ Research on dynamic price optimization methods. Results appeared in 13th Data Mining Cup, Berlin

Robotics Research Laboratory
Amirkabir University of Technology, Tehran, Iran, 2009 - 2011
Research Assistant - Supervisor: Prof. Saeed Shiry Ghidary

- ◇ Sourena Home Service Robot
  Research on object detection and recognition for Sourena appeared in International RoboCup 2010 (Singapore), 2011 (Turkey) and 6th Iranian Conference on Machine Vision and Image Processing and 4th RoboCup IranOpen International Symposium.

Lectures & Presentations

- **2D Pose Estimation via Motion Trajectories**, project report and presentation for Computer Vision course, *University of British Columbia*, Vancouver, Canada, 2014.
- **Transfer Learning, Techniques and Applications**, presentation ML+Opt course, *University of British Columbia*, Vancouver, Canada, 2013.
- **Sampling Pattern Optimization for BRISK**, project report and presentation for ML+Opt course, *University of British Columbia*, Vancouver, Canada, 2013.

Teaching Experience

Teaching Assistant, University of British Columbia

- CPSC 320 Intermediate Algorithm Analysis and Design (Summer 2014)
- CPSC 221 Basic Algorithms and Data Structures (Summer 2014)
- CPSC 420 Advanced Algorithms Design and Analysis (Winter 2013)
- APSC 160 Introduction to Computation in Engineering Design (Fall 2013)

Teaching Assistant, Amirkabir University of Technology

- Principles of Computer and Programming (Fall 2012) (Winter 2010)
- Design and Analysis of Algorithms (Winter 2012)
- Principles of Computer and Programming (Fall 2011)
- C++ Programming, Data Structures and Algorithm Design (Winter 2010)

Instructor, Shahid Ejei Junior-Highschool

Teaching Topics in Mathematics to junior high school students. Teaching material included combinatorics and graph theory.

Skills

- Programming: Java, C, C++, Matlab, Objective-C.
- Operating Systems: Mac OS, Windows, Linux.
- Typesetting: LaTeX, Microsoft Word.

Test Scores

- **TOEFL IBT** (May 2012): **103/120**
- **GRE General** (Oct 2012): **322/340**
- **GRE Subject** in **Computer Science** (Oct 2012): 830/890, percentile: 89%

Volunteer Works

- **GIRLsmarts Workshop** (Feb. 2014)
  A series of workshops run by the UBC CS department that aims to get Grade 6 girls interested in Computer Science.
- **TechTrek Workshop** (May 2014)
  For grade 6-12, an opportunity for students to learn more about computer science and engage in interesting activities.