



YALDA SHANKAR

Curriculum Vitae

☎ (+44) 7435 835269

✉ yaldashankar@gmail.com

in <https://www.linkedin.com/in/yaldashankar/>

OBJECTIVES AND MAJOR INTERESTS

I have a Master's degree in **Artificial Intelligence** from Shiraz University, Shiraz, Iran and also an **Information Technology** Undergraduate degree from Shiraz University of Technology, Shiraz, Iran. My research interests are as follow:

- Art and Craft Design through AI (Language Theory, Physical Simulation, Machine Learning)
- Deep Learning (CNNs, LSTMs, Graph Neural Networks)
- Generative Modelling (GANs, Transformers)
- Reinforcement Learning (Q-learning, Actor-critic)

EDUCATION

2016–2019 **Master's Student**, in *Artificial Intelligence*, Shiraz University , Shiraz, IRAN

GPA: 17.29/20.0 (3.86/4.00)(1.10 in German Grading System)

Statistical Pattern Recognition***, Optimization Algorithms, Machine Learning***, Advanced Engineering Mathematics***, Digital Image Processing***, Bioinformatics and Computational Biology, Fuzzy Systems and Propositions***.

(***: earned one of the first three grades in the course.)

2012–2016 **Undergraduate Student**, in *Information Technology Engineering*, Shiraz University of Technology, Shiraz, IRAN

GPA: 17.63/20.0

Theory of Languages and Automata*, Design of Algorithms*, Operations Research, Computer Networks I*, Computer Networks II*, Discrete Mathematics*, Distributed Software*, Artificial Intelligence, Computer Graphics, Advanced Programming*, Introduction to Computer Programming*, Information Technology Engineering, Software Engineering II*, Mathematics I*, Mathematics II*.

(*: earned the highest grade in the course.)

2008–2012 **High School Diploma**, *Mathematics and Physics Discipline*, Eghbal Trade High School, Shiraz, IRAN

Total GPA 18.20/20.0

ACADEMIC HONORS AND AWARDS

- Won travel grant by GraDana Erasmus+ Project and attended Big Data Winter School at Bonn University, in 2018.
- Accepted in the M.Sc. program **without university entrance exam**, as an exceptional student in the fields of Artificial Intelligence as well as Information Technology at Shiraz University, and Software Engineering and Computer Networks at Shiraz University of Technology.
- Awarded by University Chair as **exceptional talent student** in 2015.
- Ranked **2nd** amongst University Students of Class 2012, Shiraz University of Technology based on the overall GPA.
- Validated for the second round of Iranian National Mathematics Olympiad. 2010.
- Validated for the second round of Khwarizmi International Award(KIA). 2009.

THESIS AND RESEARCH EXPERIENCE

- 2013–2016 **Relevant to the Undergraduate Thesis :** Machine Learning Techniques and Algorithms using Big Data, under supervision of Dr. Reza Akbari.
- 2015–2016 **Research :** Designing a new optimization algorithm called Dog Search Algorithm (DSA) for solving numerical optimization problems, under supervision of Dr. Reza Akbari.
- 2016–2018 **Relevant to Masters Thesis** A Large-Margin Approach for Prototype Weighting in Nearest Neighbor Classifier, under supervision of Dr. K. Ziarati and Dr. M. Taheri (Excellent Score).

PUBLICATIONS

- 2022 **Yalda Shankar**, Sukrit Shashi Shankar, *Caritistic: Drawing Face Caricatures like a Human Artist*, ACM Transactions on Graphics (WORKING PAPER)
- 2022 **Yalda Shankar**, Sukrit Shashi Shankar, *MinArt: Generating Minimalistic Line Art from 2D photos*, ACM Transactions on Graphics (WORKING PAPER)
- 2022 **Yalda Shankar**, Sukrit Shashi Shankar, *GaSP: Garment Stitching Patterns from Multi-view Images*, ACM Transactions on Graphics (WORKING PAPER)

COMPUTER & SOFTWARE SKILLS

Python (Pytorch, Keras, Tensorflow), MATLAB, R, Java, Affinity Designer, Procreate, Adobe Illustrator, Adobe Premiere Pro, Clo3D

WORK EXPERIENCE

- Fall 2015 Teaching Assistant of **Software Engineering I** (Dr. O. Booshehrian), Shiraz University of Technology, Shiraz, Iran.(bachelor course)
- Fall 2015 Teaching Assistant of **Operating Systems** (Dr. R. Akbari), Shiraz University of Technology, Shiraz, Iran.(bachelor course)
- Fall 2015 Teaching Assistant of **Engineering Economics** (Dr. J. Eghtesadifar), Shiraz University of Technology, Shiraz, Iran.(bachelor course)
- Fall 2017 Teaching Assistant of **Statistical pattern recognition** (Dr. Z. Azimifar), Shiraz University, Shiraz, Iran.(master course)
- Fall 2017 Teaching Assistant of **Advanced Engineering Mathematics** (Dr. M. Taheri), Shiraz University, Shiraz, Iran.(master course)
- Winter 2018 **Machine Learning Programmer**, Teyhoo Rayane company, Fars Science and Technology Park, Shiraz, Iran.

SEMINARS AND PRESENTATIONS

- Alliance Academy Education and Training hereby certifies that I has successfully completed education and training in Efficiency in **Industry** Training Course, Spring **2013**.
- Lecture on Music and Mathematics an overview of **relations between music and mathematics**. I studied group theoretic aspects of musical structures and the use of fractals in musical algorithms. Shiraz University of Technology, Summer **2013**.
- Lecture on **Social Networks**: Properties and Structure in Mathematics and Interdisciplinary Science workshop, an overview of related mathematical research ideas in Graph Theory and Optimization, Mathematics Department, Shiraz University, Fall **2014**.
- Workshop on Automated Composition of **Big Data services** by Shiraz University of Technology, Shiraz University, Fall **2014**.
- Lecture on **Applications of Computational Geometry in Computer Graphics** by Dr. E. Damiani and Dr. S. M. Astaneh, Shiraz University of Technology, Fall **2017**.
- Workshop on Automated Composition of Big Data services by Shiraz University, Fall **2017**.
- Workshop on Polymerase chain reaction (PCR) by Genetic group of Shiraz University of Medical Sciences, Fall **2017**.
- Winter School on **Data Analytics** for IT Enterprises in **Bonn university** funded by Erasmus+, Winter **2018**.

LANGUAGE SKILLS

[Persian , Native] [English , Advanced] [German , Elementary] [Hindi , Elementary]

EXTRACURRICULAR ACTIVITIES

Music, Painting, Hiking, Cycling, Cooking, Reading, Interior Decoration, Fashion Designing