

Mohammad Matin Najafi

Department of Computer Science, The University of Hong Kong

matin@connect.hku.hk | +852 55945774

EDUCATION

The University of Hong Kong

Ph.D. of Computer Science

Hong Kong

Expected September 2024

Sharif University of Technology

Bachelor of Science in Computer Science/Engineering; GPA: 19/20

Tehran, IR

2016-2020

Relevant Coursework: Advanced Machine Learning, Advanced Database Management Systems, Applied Artificial Intelligence, Data Mining, Introduction to Data Science

Allameh Helli High School (National Organization for Development of Exceptional Talents)

High School Diploma in Mathematics & Physics Discipline; GPA: 19.54/20.0

Tehran, IR

2012 - 2016

SKILLS

- **Languages:** Python, C++, SQL, Java, JavaScript, Matlab, Verilog
- **Tools:** TensorFlow, PyTorch, Scikit-Learn, Numpy, Pandas, Jupyter
- **Databases:** MySQL, Mongo, Redis, Postgres
- **DevOps:** GitHub, CI/CD, Docker, Kubernetes, Ansible, Jenkins
- **CAD:** ModelSim, Quartus II, Proteus

RESEARCH INTERESTS

- Data Mining
- Graph Mining
- Complex Networks
- Databases
- Knowledge Graphs
- Artificial Intelligence & Deep Learning
- Databases
- Knowledge Graphs
- Artificial Intelligence & Deep Learning

RESEARCH INTERNSHIPS

Network Motif Discovery

Summer Research Intern, Dr.Reynold C.K. Cheng

University of Hong Kong, HK

Jul 2019 - Sep 2019

- **Algorithm Design:** Propose and implementation of algorithms to beat the state-of-the-art solutions.
- **Apply "Motif Discovery" to HINs:** Show how motifs can be efficiently discovered on Heterogeneous Information Networks.

Code Layout Optimization

Summer Research Intern, Dr.Pejman Lotfi-Kamran, Dr. Ali Ansari

Institute For Research In Fundamental Sciences, Iran

Feb 2018 - Apr 2018

- **Background Analysis:** A survey on the existing solutions in the literature.
- **Implementation:** Implementing & Comparing the state-of-the-art solutions to our proposed solution.

WORK EXPERIENCE

Cafe Bazaar(Android Market with 40M users)

Software Engineer Intern (Back-end Developer)

Tehran, IR

June 2018 - Aug 2018

- **Mini-inlines:** A platform to respond directly to informative search queries inside the android market.
- **Crawlport:** A crawler to collect and process live data from sport sites.

Andisheh Group

Software Engineer Intern(Android Developer)

Tehran, IR

May 2017 - Aug 2017

- **Android Development:** Implemented Business Intelligence application.

PUBLICATIONS

- Two **upcoming** papers on Network Motif Discovery.
- Xiaodong Li, Reynold Cheng, **Matin Najafi**, Kevin Chang, Xiaolin Han, and Hongtai Cao. M-cypher: A gql framework supporting motifs. In *Proceedings of the 29th ACM International Conference on Information & amp; Knowledge Management*, CIKM '20, New York, NY, USA, 2020. Association for Computing Machinery

HONORS & AWARDS

- Lee Shau Kee Postgraduate Fellowship. The University of Hong kong 2020
- Belt & Road Scholarship. The University of Hong kong 2020
- HKU Postgraduate Scholarship (PGS). The University of Hong kong 2020
- Academic Excellence Award (rank 1 in class). Sharif University of Technology 2018 & 2019
- MakeAthon(Make Marathon) - Best ideas (**3rd** runner-up)
- Academic Excellence Award (rank 3 in class).Sharif University of Technology 2017
- 2nd runner-up at **Tehran open** chess championship
- **Champion** at **Hong Kong Inter-School** chess championship

ACADEMIC SERVICE

External Reviewer

Conferences and Journals

- **SIGMOD 2020**: The ACM Special Interest Group on Management of Data.
- **ACM SIGKDD 2021**: Conference on Knowledge Discovery and Data Mining.
- **TKDE 2021**: IEEE Transactions on Knowledge and Data Engineering

TEACHING

Tutor & Teaching Assistant

Course: Age of Big Data

The University of Hong Kong

Prof. Reynold Cheng

Head Teaching Assistant

Course: Computer Structure & Language

Sharif University of Technology

Dr. Hamed Farbeh

Tutor & Teaching Assistant

Course: Software Development and Design(Agile)

Sharif University of Technology

Dr. Masoumeh Taromirad

Tutor & Teaching Assistant

Course: Advanced Programming

Sharif University of Technology

Dr. Isazadeh

Head Teaching Assistant

Course: Computer Architecture

Sharif University of Technology

Dr. Hamed Farbeh

LANGUAGE SKILLS

- **Persian** : Native
- **English**: Fluent (TOEFL 109)
- **Arabic**: Familiar

SPECIAL COURSES

- Introduction to **Data Science**: University of Michigan(Coursera)
- Applied **Machine Learning**: University of Michigan(Coursera)
- **Deep Learning** Specialization: DeepLearning.ai (Coursera)

REFERENCES

Available upon request.