ELAHE GHASEMI

Northeastern University, Boston, USA

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RESEARCH INTERESTS

- Designing Algorithms

- Graph Theory

EDUCATION

Northeastern University, Boston, USA   *2024 - present*
PhD in Computer Science
Supervisors: Rajmohan Rajaraman, Mahsa Derakhshan

Université Paris Cité, Paris, France   *2022 - 2023*
M.Sc. in Computer Science
Parisian Master of Research in Computer Science (MPRI)

Sharif University of Technology, Tehran, Iran   *2017 - 2022*
B.Sc. in Computer Science
Department of Mathematical Sciences

PUBLICATIONS

- Elahe Ghasemi, Vincent Jugé, and Ghazal Khalighinezhad. Galloping in fast-growth natural merge sorts. In *49th International Colloquium on Automata, Languages, and Programming (ICALP 2022)*. Schloss Dagstuhl-Leibniz-Zentrum für Informatik, 2022.

- Mohammad Rashid, Elahe Ghasemi, and Javad B Ebrahimi. Entropic weighted rank function. In *10th Iran Workshop on Communication and Information Theory (IWCIT 2022)*. *CoRR, abs/2206.05968*, 2022.

ACHIEVEMENTS

- Ranked 60th among 148,429 participants in national university entrance examination of Iran (Konkour)

- Granted PGSM (Paris Graduate School of Mathematics) scholarship of Fondation Sciences Mathmatiques de Paris

RESEARCH EXPERIENCES

Minimum Vertex Cover in Communication Model   Jan 2024 - July 2024
Supervisor: Rajmohan Rajaraman, Mahsa Derakhshan

Job Scheduling with Bag Constraints   April - September 2023
Supervisor: Chien-Chung Huang

Sorting Algorithms and their Complexity   September 2021 - March 2022
Supervisor: Vincent Jugé

Entropic Sumbodular Functions   March 2021 - April 2022
Supervisor: Javad Ebrahimi

WORK EXPERIENCE

Shab Company, Tehran   summer 2020
Frontend Developer

· Internship under this company. Learned and implemented various aspects of web developement with html, css, JavaScript and React.

LANGUAGES

Persian   Native
English   Advanced (**TOEFL iBT Score: 110/120:** R 27/30 - L 30/30 - S 25/30 - W 28/30)
French   Beginner

TEACHING ASSISTANT EXPERIENCES

Algorithms, *Mahsa Derakhshan, Northeastern University*   Fall 2024

Algorithms Design, *Masood Seddighin, Sharif University of Technology*   Spring 2021

Operating Systems, *Hadi Foroughmand, Sharif University of Technology*   Spring 2021

Theory of Languages & Automata, *Javad Ebrahimi, Sharif University of Technology*   Fall 2020

Designing Algorthms, *Morteza Alimi, Sharif University of Technology*   Spring 2020

Data Structures, *Morteza Alimi, Sharif University of Technology*   Fall 2019

OTHER EXPERIENCES

Peer Review - APPROX Conference   summer 2023
reviewer

Theory Group Seminar at Northeastern University   Fall 2024
Co-organizer