

# Hossein Esfandiari

Cell Phone: +1 (240) 644-3110

Email: hossein AT cs.umd.edu

Homepage: <http://www.cs.umd.edu/~hossein>

## Education

---

- **Ph.D. in Computer Science**, University of Maryland, College Park, Maryland, Fall 2012 - Now.
  - Under supervision of Prof. Mohammad T. Hajiaghayi
  - **Thesis Topic:** Allocations in Large Markets
- **Masters in Computer Science**, University of Maryland, College Park, MD, Fall 2012 - Fall 2014.
  - Achieved during the Ph.D. program.
- **Bachelor in Computer Engineering**, Sharif University of Technology, Tehran, Iran. September 2008 - June 2012.
  - **Thesis Topic:** Notes on the Erdős–Gyárfás Conjecture

## Honors and Awards

---

- **Google PhD Fellowship**, 2016-2018.
- **Outstanding Graduate Student Dean's Fellowship**, University of Maryland, 2016.
- **Ann G. Wylie Dissertation Fellowship**, University of Maryland, 2015-2016.
- **World Quantitative and Science Scholarship**, 2014-2015.
- Distinguished Graduate Student **Teaching Award** 2013-2014, University of Maryland.
- **UPE Award** [1st to solve Problem J], **ACM-ICPC** International Programming Contest 2013, Russia.
- 27th among 9800 teams, **ACM-ICPC** International Programming Contest 2013, Russia.
- **1st** team in **ACM-ICPC** Mid-Atlantic regional contest 2012, USA.
- **Dean's Fellowships**, University of Maryland at College Park, 2012.
- 4th rank in **National Graduate Entrance Exam** in Computer Science, Iran, 2011.
- Awarded as Valedictorian by **Sharif University of Technology president**, 2009.
- Gold Medal in the **Iranian National Olympiad in Informatics**, 2007, Tehran, Iran.
- Recipient of the Grant for Undergraduate Studies from the **Iranian National Elite Foundation**, fall 2008 - summer 2012.

## Works and Experiences

---

- Internship at **Google Research NYC**, Summers of 2014, 2015 and 2016.
- Paid Research Visit at **Rutgers**, Camden, Summer 2013.
- **Admission Committee**, University of Maryland, ,2015, 2016 and 2017.
- Teaching Assistant, **University Of Maryland**.
  - Introduction to Game Theory, Discrete Structures..
- **Reviewer:** SODA 2016, NIPS 2016, ESA 2016, APPROX 2016, ICALP 2016, SODA 2016, SAGT 2015, SICOMP, ICALP 2015, SPAA 2015, WWW 2015, WALCOM 2015, SODA 2015, LATIN 2014, ESA 2013, WINE 2012.

## Papers and Publications

---

- *Abolbassani, Ehsani, Esfandiari, Hajiaghayi, Kleinberg, Lucier*, Beating  $1-1/e$  for Ordered Prophets, **STOC 2017**.
- *Abolbassani, Esfandiari, Hajiaghayi, Lucier, Yami*, Market Pricing for Data Streams **AAAI 2017**.
- *Bateni, Esfandiari, Mirrokni, Seddighin*, A Study of Compact Reserve Pricing Languages **AAAI 2017**.
- *Esfandiari, Korula, Mirrokni*, Bi-Objective Online Matching and Submodular Allocations, **NIPS 2016**.
- *Esfandiari, Hajiaghayi, Monemizadeh*, Finding Large Matchings in Semi-Streaming, **ICDM 2016** (workshops).
- *Esfandiari, Hajiaghayi, Woodruff*, Applications of Uniform Sampling: Densest Subgraph and Beyond, **SPAA 2016**.
- *Abolbassani, Chan, Chen, Esfandiari, Hajiaghayi, Mahini, Wu*, Beating Ratio 0.5 for Weighted Oblivious Matching Problems, **ESA 2016**.
- *Chitnis, Esfandiari, Cormode, Hajiaghayi, McGregor, Monemizadeh, Vorotnikova*, Kernelization via Sampling with Applications to Dynamic Graph Streams, **SODA 2016**.
- *Esfandiari, Kortsarz*, A Bounded-Risk Mechanism for the Kidney Exchange Game, **LATIN 2016**.
- *Esfandiari, Korula, Mirrokni*, Online Stochastic Budgeted Allocation with Traffic Spikes, **EC 2015**, invited to the *Special Issue* of TEAC.
- *Esfandiari, Hajiaghayi, Liaghat, Monemizadeh, Onak*, Streaming Algorithms for Estimating the Matching Size in Planar Graphs and Beyond, **SODA 2015**.
- *Chitnis, Cormode, Esfandiari, Hajiaghayi, Monemizadeh*, New Streaming Algorithms for Parameterized Maximal Matching and Beyond, **SPAA 2015**.
- *Esfandiari, Hajiaghayi, Liaghat, Monemizadeh*, Prophet Secretary, **ESA 2015**.
- *Esfandiari, Hajiaghayi, Koenemann, Mahini, Malec, Sanita*, Scheduling with Chain-like Precedence Constraints, **ESA 2015**.
- H.Esfandiari, G.Kortsarz, New Mechanisms for Pairwise Kidney Exchange, **SAGT 2015**.
- *Abolbassani, Esfandiari, Hajiaghayi, Mahini, Malec, Srinivasan*, Selling Tomorrow's Bargains Today, **AAMAS 2015**.
- *Esfandiari, Hajiaghayi, Khani, Liaghat, Mahini, Ræcke*, Stochastic Online Buffer Scheduling, **ICALP 2014**.
- *Chitnis, Esfandiari, Hajiaghayi, Khandekar, Kortsarz, Seddighin*, A Tight Algorithm for Strongly Connected Steiner Subgraph On Two Terminals With Demands, **IPEC 2014** (Algorithmica).

### Undergraduate Work:

- *Salehi, Esfandiari, Shirdareh Haghighi, Magnant*, Second Hamiltonian cycles in claw-free graphs, **Theory and Applications of Graphs**.
- *Akbari, Esfandiari, Barzegari and Seddighin*, Some bounds for the signed edge domination number of a graph, **Australasian Journal of Combinatorics**.
- *Salehi, Esfandiari, Shirdareh Haghighi, Bibak*, On the Erdos – Gyárfás conjecture in claw-free graphs, **Discussiones Mathematicae Graph Theory**.