

# CURRICULUM VITAE

## MINOO HOSSEINZADEH

### CONTACT INFORMATION

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<b>EDUCATION</b>	<b>PhD in Computer Science</b> University of Kentucky, Lexington, KY, US GPA: 4/4	<i>Fall 2019-Present</i>
	<b>M.Sc. in Information Technology – Computer Networks</b> Urmia University, Urmia, Iran Thesis Title: Dissertation: Controller Placement in Dense Software-Defined Networks by Optimization and Heuristic Methods GPA: 17.94/20 (4/4)	<i>2014-2017</i>
	<b>B.Sc. in Information Technology</b> University of Mazandaran, Babolsar, Iran GPA: 15.68/20 (3.13/4)	<i>2008-2013</i>

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<b>RESEARCH EXPERIENCE</b>	<b>Research Project, PhD</b> Optimal Resource Management in Edge-Intelligent Systems Net-Science Lab, University of Kentucky, Computer Science Department	<i>2019-now</i>
	<b>Thesis, Master of Science</b> Controller Placement in Dense Software-Defined Networks by Optimization and Heuristic Methods, Urmia University, Urmia, Iran	<i>2016</i>
	<b>Final Project, Bachelor of Science Encrypting by DNA,</b> Mazandaran University, Babolsar, Iran	<i>2012</i>

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<b>TEACHING EXPERIENCE</b>	<b>Graduate Teaching Assistant</b> <b>Discrete Mathematics</b> The Department of Computer Science University of Kentucky, US	<i>8/2022—12/2022</i> <i>8/2023-now</i>
	<b>Graduate Teaching Assistant</b> <b>Introduction to Programming Using C++</b> The Department of Computer Science University of Kentucky, US	<i>1/2022—6/2022</i>
	<b>Graduate Teaching Assistant</b> <b>Discrete Mathematics</b> The Department of Computer Science University of Kentucky, US	<i>8/2021—1/2022</i>
	<b>Graduate Teaching Assistant</b> <b>Discrete Mathematics</b> The Department of Computer Science University of Kentucky, US	<i>8/2019—1/2020</i>

**Graduate Teaching Assistant  
Computer Architecture Course**  
The Department of Computer Engineering  
Urmia University, Urmia, Iran

9/2016 – 3/2017

<b>HONORS AND AWARDS</b>	Awarded N2Women travel grant to present at N2Women Workshop, SIGCOMM, 2023.	2023
	Awarded NSF travel grant to attend PerCom, 2023.	2023
	Awarded NSF travel grant to attend INFOCOM, 2021.	2021
	Awarded NSF travel grant to attend 4 <sup>th</sup> ACM/IEEE SEC, 2019.	2019
	Ranked 3 <sup>rd</sup> in the class of 2016 – M.Sc. in Information Technology. Urmia University	2016
	Ranked 313 <sup>rd</sup> among 11000 participants in national-wide university entrance exam for M.Sc. degree in Information Technology.	2014
	Ranked 1 <sup>st</sup> in national-wide Islamic Azad University, Science and Research Branch entrance exam for M.Sc. degree in Computer Networks.	2014
	Ranked among top 2% of approximately 350,000 participants in the national-wide university entrance exam in Mathematics and Physics fields for B.Sc. degree.	2008
<b>PUBLICATIONS</b>	<b>Minoo Hosseinzadeh</b> , Andrew Wachal, Hana Khamfroush, Daniel E. Lucani, “QoS-Aware Priority-Based Task Offloading for Deep Learning Services at the Edge”, IEEE Consumer Communications & Networking Conference (CCNC), 2022.	
	<b>Minoo Hosseinzadeh</b> , Nathaniel Hudson, Sam Heshmati, Hana Khamfroush, “Communication-Loss Trade-Off in Federated Learning: A Distributed Client Selection Algorithm”, IEEE Consumer Communications & Networking Conference (CCNC) Workshop SONATAI, 2022.	
	<b>Minoo Hosseinzadeh</b> , Nathaniel Hudson, Xiaobo Zhao, Hana Khamfroush, Daniel E. Lucani, “Joint Compression and Offloading Decisions for Deep Learning Services in 3-Tier Edge Systems”, IEEE International Symposium on Dynamic Spectrum Access Networks (DySPAN), 2021 (Invited Paper).	
	<b>Minoo Hosseinzadeh</b> , Andrew Wachal, Hana Khamfroush, Daniel E. Lucani, “Optimal Task Offloading For Deep Learning Services In Edge-enabled Systems: An Accuracy-Time Trade-off”, To be published on ACM SIGCOMM Conference, N2Women Workshop, 2021.	
	Nathaniel Hudson, Jakir Hossain, <b>Minoo Hosseinzadeh</b> , Hana Khamfroush, Mahshid Rahnamay-Naeini, and Nasir Ghani, “A Framework for Edge Intelligent Smart Distribution Grids via Federated Learning”, IEEE ICCCN, 2021 (Invited Paper).	
	<b>Minoo Hosseinzadeh</b> , Andrew Wachal, Hana Khamfroush, Daniel E. Lucani, “Optimal Accuracy-Time Trade-off for Deep Learning Services in Edge Computing Systems”, IEEE International Conference on Communications (ICC), 2021 ( <a href="https://arxiv.org/pdf/2011.08381.pdf">https://arxiv.org/pdf/2011.08381.pdf</a> ).	
	Xiaobo Zhao, <b>Minoo Hosseinzadeh</b> , Nathaniel Hudson, Hana Khamfroush, Daniel E. Lucani, “Improving Accuracy-Latency Trade-off of Edge-Cloud Computation Offloading for Deep Learning Services”, To be published on IEEE Globecom Workshops: IEEE GLOBECOM 2020 Workshop on Edge Learning over 5G Networks and Beyond, 2020.	
	Adetola Adeniran, Md Abul Hasnat, <b>Minoo Hosseinzadeh</b> , Hana Khamfroush, Mahshid Naeini, “Edge Layer Design and Optimization for Smart Grids”, To be published on IEEE International Conference on Communications, Control, and Computing Technologies for Smart Grids (SmartGridComm) - Workshop on Edge Computing for Smart Grids, 2020.	

Nasrin Seifi, **Minoo Hosseinzadeh**, Behdis Eslamnour, “Improving QoS in Mobile Software-Defined Networks by Predicting Access Points,” In Proceedings of 2020 Vision, 2016, [https://www.civilica.com/Paper-EECIT01-EECIT01\\_058.html](https://www.civilica.com/Paper-EECIT01-EECIT01_058.html) (In Persian).

**Minoo Hosseinzadeh**, Behdis Eslamnour, Saleh Yousefi, “Controller Placement in Software-Defined Networks by Optimization,” In Proceedings of the 2nd National Conference on Distributed Computing and Big Data Processing, 2016, Iran, West Azerbaijan, 2016 (In Persian).

Aditya Kaushal Ranjan, Raja Ali, Vijay Kumar, **Minoo Hosseinzadeh**, “Boolean Signatures for Metamorphic Malware”, Procedia Computer Science 78(C):255-262, April 2016. DOI: 10.1016/j.procs.2016.02.041 - License: CC BY-NC-ND 4.0 – Published by Indian Conferences 2014.

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<b>PRESENTATIONS</b>	<p>“QoS-Aware Priority-Based Task Offloading for Deep Learning Services at the Edge”, IEEE Consumer Communications &amp; Networking Conference (CCNC), 2022. <span style="float: right;">2022</span></p> <p>“Communication-Loss Trade-Off in Federated Learning: A Distributed Client Selection Algorithm”, IEEE Consumer Communications &amp; Networking Conference (CCNC) Workshop SONATAI, 2022. <span style="float: right;">2022</span></p> <p>“Optimal Accuracy-Time Trade-off for Deep Learning Services in Edge Computing Systems”, IEEE International Conference on Communications (ICC), 2021. <span style="float: right;">2021</span></p> <p>“Optimal Accuracy-Time Trade-off for Deep Learning Services in Edge Computing Systems”, The 4<sup>th</sup> Annual Commonwealth Computational Summit at University of Kentucky, October 12-16, 2020 (Awarded 6<sup>th</sup> in eight best papers). <span style="float: right;">2020</span></p> <p>“Reliable and Efficient Mobile Edge Computing for Dynamic IoT Systems”, PhD Forum of The Fourth ACM/IEEE Symposium on Edge Computing, Washington DC, November 7-9, 2019. <span style="float: right;">2019</span></p> <p>“Controller Placement in Software-Defined Networks by Optimization”, The 2<sup>nd</sup> National Conference on Distributed Computing and Big Data Processing, 2016, Shahid Madani University, Tabriz, Iran. <span style="float: right;">2019</span></p> <p><b>Workshop:</b> <span style="float: right;">2019</span>          “SDN: From Concept to Implementation,” The 2<sup>nd</sup> National Conference on Distributed Computing and Big Data Processing, 2016, Shahid Madani University, Tabriz, Iran.</p>
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<b>SKILLS</b>	<p><b>Programming Languages:</b>          Python, Matlab, C#, C/C++.</p> <p><b>Databases:</b>          MySQL, SQLite.</p> <p><b>Hardware:</b>          Raspberry Pi, NVIDIA JETSON KIT, Arduino Uno and Nano.</p> <p><b>Frameworks &amp; APIs:</b>          ASP.NET, PyTorch, Matplotlib, SciPy/NumPy.</p>
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<b>EXPERIENCE</b>	<p><b>Innovation Department Intern</b> <span style="float: right;">6/2023 – 8/2023</span>          Schneider Electric Company.  <a href="https://www.se.com/">https://www.se.com/</a></p>
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<p><b>AI Intern</b>  DIANTHUS Company.  <a href="https://www.dianthuscommerce.com">https://www.dianthuscommerce.com</a></p>	<p>6/2022 – 8/2022</p>
<p><b>Research Assistant</b>  University of Kentucky, Net-Science lab.  I work as an RA under supervision of Dr. Hana Khamfroush.  <a href="http://www.cs.uky.edu/~khamfroush/">http://www.cs.uky.edu/~khamfroush/</a></p>	<p>1/2020 - now</p>
<p><b>Teaching Assistant</b>  University of Kentucky, Computer Science Department.  I served as a TA for Discrete Math and Introduction to Programming courses.  I also taught Discrete Math by myself.</p>	<p>8/2019 – 1/2020,  <i>and</i>  8/2021-12/2022  <i>and</i>  8/2023-now</p>

<b>SERVICES</b>	<p>President of Iranian Student Association at University of Kentucky (ISAUK).  Secretary of Graduate Student Association for Computer Science (GSACS) association  Vice president of Iranian Student Association at University of Kentucky (ISAUK).  Reviewing paper for journals and conferences such as ICDCS and SMARTCOMP.  Volunteer teaching at JCTC high school, Lexington, KY.  Volunteer talk at University of Kentucky ACM-W association for undergraduate students.</p>	<p>2022-now  2021-2022  2021-2022  2021-now  2021  2021</p>
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**REFERENCES**

**Dr. Hana Khamfroush (Supervisor)**

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