

# Hasan Kurban, Ph.D.

## Curriculum Vitae

Electrical and Computer Engineering, Texas A&M University at Qatar  
Office 246S, Education City, PO Box 23874, Doha, Qatar

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Profiles: 🏠 Texas A&M University at Qatar 🏠 Texas A&M University 🏠 Indiana University Bloomington  
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## Research Interests & Education

**Research Interests:** AI, Software Engineering, Data Mining, Machine Learning, Big Data, Data Science

**Ph.D. in Computer Science, Minor in Statistics**

**Indiana University**, Bloomington, IN, USA

**Completed: September 2017**

**Advisor:** Prof. Mehmet M. Dalkilic

**Committee Members:** Prof. Predrag Radivojac, Prof. Michael W. Trosset, Prof. Yuzhen Ye

**Dissertation Title:** *A Novel Approach to Optimization of Iterative Machine Learning Algorithms: Over Heap Structure*

## Publications

### Peer-Reviewed Journal Articles

32. Samir Abdaljalil, **Hasan Kurban**, Rachad Atat, Erchin Serpedin, Khalid Qaraqe. "Deep Temporal & Structural Embeddings for Unsupervised Anomaly Detection in Dynamic Graphs," *IEEE Transactions on Neural Networks and Learning Systems*, 2024. (under-review)
31. Can Polat, **Hasan Kurban**, Mustafa Kurban. "Text-To-Energy: Accelerating Quantum Chemistry Calculations through Text-to-Vector Encoding and Orbital-Aware Multilayer Perceptron," *The Journal of Physical Chemistry C*, 2024. (under-review)
30. Ganesh Arkanath, **Hasan Kurban**, Mehmet M. Dalkilic. "PlayoffsNet: Enhancing NBA Playoffs Prediction Through Engineered Features and Explainable Deep Learning," *International Journal of Data Science and Analytics*, 2024. (under-review)
29. Mert Onur Cakiroglu, **Hasan Kurban**, Elham Khorasani Buxton, and Mehmet Dalkilic. "Novel De Bruijn Graph Embeddings for Enhanced Time Series Forecasting," *Machine Learning*, 2024. (under-review)
28. Parichit Sharma, Sarthak Mishra, **Hasan Kurban**, Mehmet M. Dalkilic. " $p$ -ClustVal: Enhancing Clustering and Valuation with a Novel  $p$ -adic Approach in High-Dimensional Genomics Data," *International Journal of Data Science and Analytics*, 2024. (under-review)
27. Can Polat, **Hasan Kurban**, Mustafa Kurban. "QuantumShellNet: Ground-State Eigenvalue Prediction of Materials Using Electronic Shell Structures and Fermionic Properties via Convolutions," *The Journal of Physical Chemistry C*, 2024. (under-review)
26. Parichit Sharma, **Hasan Kurban**, Marcin Malec, Oguzhan Kulekci, Mehmet Dalkilic. "Geometric- $k$ -means: An Unbounded, Accurate and Energy-Efficient  $k$ -means," *Machine Learning*, 2024. (under-review)
25. Mustafa Kurban, Can Polat, Erchin Serpedin, **Hasan Kurban**. "Leveraging DFTB and Computer Vision for Enhanced Electronic Structure Prediction of C-Doped TiO<sub>2</sub> Nanoparticles: A Novel Machine Learning Approach," *Computational Materials Science*, 2024. (under-review)

24. Fahrettin Ay, Saud Althunibat, Khalid Qaraqe, **Hasan Kurban**. "A Noise-Adaptive Sequential Extreme Gradient Boosting Algorithm for Optimality Prediction of User Grouping in IM-OFDMA Systems," *IEEE Transactions on Communications*, 2024. (under-review)
23. Mert Onur Cakiroglu, **Hasan Kurban**, Parichit Sharma, M. Oguzhan Kulekci, Elham Khorasani Buxton, Maryam Raeaszadeh-Sarmazdeh and Mehmet Dalkilic. "An Extended de Bruijn Graph for Feature Engineering Over Unstructured Data," *Machine Learning: Science and Technology*, 2024. (under-review)
22. Madhavan Kalkunte Ramachandra, **Hasan Kurban**, M. Oguzhan Kulekci and Mehmet M. Dalkilic. "tiknn: Telescope Indexing for  $k$ -Nearest Neighbor Search Algorithms over High Dimensional Data & Large Data Sets," *Data Mining and Knowledge Discovery*, 2024. (under-review)
21. Mert Onur Cakiroglu, **Hasan Kurban**, Khalid Qaraqe, Lilia Aljihmani, Goran Petrovski, Mehmet M. Dalkilic. "A Reinforcement Learning Approach to Effective Forecasting of Pediatric Hypoglycemia in Diabetes I Patients: an extended de Bruijn Graph," *Interdisciplinary Sciences: Computational Life Sciences*, 2024. (under-review)
20. Selcuk Temiz, Salim Erol, **Hasan Kurban**, and Mehmet M. Dalkilic. "State of Charge and Temperature-Dependent Impedance Spectra Regeneration of Lithium-Ion Battery by Duplex Learning Modeling," *Journal of Energy Storage*, 64, 107085, 2023.
19. **Hasan Kurban**, Mustafa Kurban, and Mehmet M. Dalkilic. "Rapidly Predicting Kohn-Sham Total Energy Using Data-centric AI," *Nature Scientific Reports*, vol.12, pp.1-14, 2022.
18. Selcuk Temiz, **Hasan Kurban**, Salim Erol, and Mehmet M. Dalkilic. "Data on Machine Learning Regenerated Lithium-ion Battery Impedance," *Data in Brief*, 108698, 2022.
17. Marcin S. Malec, **Hasan Kurban**, and Mehmet M. Dalkilic. "ccImpute: an Accurate and Scalable Consensus Clustering Based Algorithm to Impute Dropout Events in Single-Cell RNA-seq Data," *BMC Methods*, vol.23, pp. 1-17, 2022.
16. Selcuk Temiz, **Hasan Kurban**, Salim Erol, and Mehmet M. Dalkilic. "Regeneration of Lithium-ion Battery Impedance Using a Novel Machine Learning Framework and Minimal Empirical Data," *Journal of Energy Storage*, 52, 105022(1-34), 2022.
15. Parichit Sharma, **Hasan Kurban**, and Mehmet M. Dalkilic. "DCEM: An R package for Clustering Big Data via Data-centric Modification of Expectation Maximization," *SoftwareX*, 17, 100944, 2022.
14. **Hasan Kurban** and Mustafa Kurban. "Building Machine Learning Systems for Multi-Atoms Structures: CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> Perovskite Nanoparticles," *Computational Materials Science*, 195, 110490(1-9), 2021.
13. **Hasan Kurban**, Mustafa Kurban, Parichit Sharma, and Mehmet M. Dalkilic. "Predicting Atom Types of Anatase TiO<sub>2</sub> Nanoparticles with Machine Learning," *Key Engineering Materials*, vol.880, pp.89-94, 2021.
12. **Hasan Kurban** and Mustafa Kurban. "Rare-class Learning over Mg-Doped ZnO Nanoparticles," *Chemical Physics*, vol.546, 11159(1-9), 2021.
11. Iskender Muz, **Hasan Kurban**, and Mustafa Kurban. "A DFT Study on Stability and Electronic Structure of AlN Nanotubes," *Materials Today Communications*, 26, 102118(1-7), 2021.
10. **Hasan Kurban**, Sholeh Alaei, and Mustafa Kurban. "Effect of Mg content on Electronic Structure, Optical and Structural Properties of Amorphous ZnO Nanoparticles: A DFTB Study," *Journal of Non-Crystalline Solids*, 560, 120726(1-6), 2021.
9. **Hasan Kurban**. "Atom Classification with Machine Learning and Correlations among Physical Properties of ZnO Nanoparticle," *Chemical Physics*, vol.545, 111143(1-9), 2021.
8. **Hasan Kurban**. "Measuring the Proximity of Medical Treatment Areas with Text Mining," *European Journal of Science and Technology*, no.21, pp. 518-526, 2021.

7. **Hasan Kurban**. "Practical Data Science: Examining the Correlations between Structural and Electronic Properties of Different Phases of TiO<sub>2</sub> Nanoparticles," *Journal of Selcuk-Technic*, 4(19), 1-9, 2020.
6. **Hasan Kurban**, Mehmet Dalkilic, Selcuk Temiz, and Mustafa Kurban. "Tailoring the Structural Properties and Electronic Structure of Anatase, Brookite and Rutile Phase TiO<sub>2</sub> Nanoparticles: DFTB Calculations," *Computational Materials Science*, 183, 109843(1-9), 2020.
5. **Hasan Kurban** and Mustafa Kurban. "Study of Structural and Optoelectronic Properties of Hexagonal ZnO Nanoparticles," *Bilecik Seyh Edebali University Journal of Science*, 6(2), 124-131, 2019.
4. Mustafa Kurban, **Hasan Kurban**, and Mehmet M. Dalkilic. "Controlling Structural and Electronic Properties of ZnO NPs," *Bilge International Journal of Science and Technology Research*, 3(0), 35-39, 2019.
3. **Hasan Kurban**, Mustafa Kurban, and Mehmet M. Dalkilic. "Density-functional Tight-binding Approach for the Structural Analysis and Electronic Structure of Copper Hydride Metallic Nanoparticles," *Materials Today Communications*, 21, 100648(1-7), 2019.
2. **Hasan Kurban**, Mark Jenne, and Mehmet M. Dalkilic. "Using Data to Build a Better EM: EM\* for Big Data," *International Journal of Data Science and Analytics*, vol.4, no.2, pp. 83-97, 2017.
1. Mark Jenne, Owen Boberg, **Hasan Kurban**, and Mehmet M. Dalkilic. "Studying the Milky Way Galaxy using ParaHeap-k, a parallel heap-based k-means," *IEEE Computer*, vol.47, no.9, pp.26-33, 2014.

#### Peer-Reviewed Conference Proceedings

16. **TGPCNet: Achieving Simplicity in Doped Material Simulation via Multimodal Text-Guided Pure Compounds for Enhanced Solar Efficiency**  
Can Polat, **Hasan Kurban** and Mustafa Kurban  
*The 41st International Conference on Machine Learning (ICML), ML for Life and Material Science: From Theory to Industry Applications*, Vienna, Austria, 2024. (under-review)
15. **What Data-Centric AI Can Do For  $k$ -means: a Faster, Robust  $k$ -means-d**  
Parichit Sharma, **Hasan Kurban** and Mehmet M. Dalkilic  
*The 41st International Conference on Machine Learning (ICML), Data-centric Machine Learning Research (DMLR): Datasets for Foundation Models*, Vienna, Austria, 2024. (under-review)
14. **Novel NBA Fantasy League driven by Engineered Team Chemistry and Scaled Position Statistics**  
Ganesh Arkanath, Nishad Gupta, **Hasan Kurban**, Parichit Sharma, Madhavan K R, Elham Khorasani Buxton and Mehmet M. Dalkilic  
*IEEE International Conference on Big Data: Data-Centric AI*, Sorrento, Italy, 2023
13. **Are Sports Awards About Sports? Using AI to Find the Answer**  
Anshumaan Shankar, Gowtham Veerabadran Rajasekaran, Jacob Hendricks, Jared Andrew Schlak, Parichit Sharma, Madhavan K R, **Hasan Kurban** and Mehmet M. Dalkilic  
*European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML/PKDD): 10th Workshop on Machine Learning and Data Mining for Sports Analytics*, Turin, Italy, 2023
12. **ARes: An AutoML Regression Service for Data Analytics and Novel Data-centric Visualizations**  
Josh Elms, Sam Johnson, Madhavan K R, Keerthana Sugasi, Parichit Sharma, **Hasan Kurban** and Mehmet M. Dalkilic  
*29th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, Undergraduate Consortium (KDD-UC)*, Long Beach, CA, USA, 2023
11. **Are They What They Claim: A Comprehensive Study of Ordinary Linear Regression Among the Top Machine Learning Libraries in Python**  
Sam Johnson, Josh Elms, Madhavan K R, Keerthana Sugasi, Parichit Sharma, **Hasan Kurban** and Mehmet M. Dalkilic  
*29th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, Undergraduate Consortium, (KDD-UC)*, Long Beach, CA, USA, 2023

10. **Data Expressiveness and Its Use in Data-centric AI**  
**Hasan Kurban**, Parichit Sharma and Mehmet M. Dalkilic  
*Neurips Data-centric AI*, 2021
9. **Size Dependent Electronic Structure and Structural Properties of Cupric Oxide (CuO) Nanoparticles**  
**Hasan Kurban**, Mustafa Kurban and Mehmet M. Dalkilic  
*NEM*, 2019
8. **Using Data Analytics to Optimize Public Transportation on a College Campus**  
Kurt Zimmer, **Hasan Kurban**, Mark Jenne, Logan Keating, Perry Maull, Mehmet M. Dalkilic  
*DSAA*, Turin, Italy, 2018
7. **A novel approach to optimization of iterative machine learning algorithms: over heap structure**  
**Hasan Kurban**, Mehmet M. Dalkilic  
*IEEE BigData*, Boston, MA, USA, 2017
6. **Improving Expectation Maximization Algorithm over Stellar Data**  
**Hasan Kurban**, Can Kockan, Mark Jenne and Mehmet M. Dalkilic  
*IEEE BigData: Workshop on Management, Search and Mining of Massive Repositories of Solar and Stellar Astronomy Data*, Boston, MA, USA, 2017
5. **Case study: clustering big stellar data with EM\***  
**Hasan Kurban**, Can Kockan, Mark Jenne and Mehmet M. Dalkilic  
*IEEE/ACM International Conference on Big Data Computing, Applications and Technologies (BDCAT)*, Austin, Texas, USA, 2017  
(Best Poster Award)
4. **Employing Software Engineering Principles to Enhance Management of Climatological Datasets for Coral Reef Analysis**  
Mark Jenne, Alex Zimmerman, **Hasan Kurban**, Claudia Johnson and Mehmet M. Dalkilic  
*The 6th International Workshop on Climate Informatics (CI)*, Colorado, USA, 2016
3. **EM\*: An EM algorithm for Big Data**  
**Hasan Kurban**, Mark Jenne and Mehmet M. Dalkilic  
*DSAA*, Montreal, Canada, 2016  
(Received Honorable Mention Paper Award)
2. **Red-RF: Reduced Random Forest for big data using priority voting & dynamic data reduction**  
Hussein Mohsen, **Hasan Kurban**, Kurt Zimmer, Mark Jenne, Mehmet M. Dalkilic  
*IEEE BigData Congress*, New York, USA, 2015
1. **A new set of Random Forests with varying dynamic data reduction and voting techniques**  
Hussein Mohsen, **Hasan Kurban**, Mark Jenne, Mehmet M. Dalkilic  
*DSAA*, Shanghai, China, 2014

### Book Reviews

2. *Mastering Social Media Mining with R* by Sharan Kumar Ravindran, 2015  
ISBN: 1784396311
1. *Learning Data Mining with R* by Biter Makhsel, 2015  
ISBN: 1783982101

### Honors and Awards

- **\$10,000 Transformative Educational Experience (TEE) grant:**  
*Awarded by the Center for Teaching and Learning (CTL) at Texas A&M University at Qatar, 2024. Transforming Software Engineering Education through Autograder and LLM Integration.*

- **\$10,000 Multiversity Academic Grant:**  
*Awarded by Texas A&M University at Qatar, 2024. For a novel, multi-institutional Machine Learning for Engineers course.*
- **\$53,750 Faculty Resource Allocation:**  
*Awarded by Texas A&M University at Qatar, 2023. Funds faculty teaching and research for three years.*
- **\$177,000 Research Impact Initiative:**  
*Awarded by Texas A&M University at Qatar, 2023. Funds three-year projects leveraging AI, machine learning, and data analytics to enhance Qatar’s sustainable energy, healthcare, and security.*
- **\$413,000 in Startup Research Funds:**  
*Awarded by Texas A&M University at Qatar, 2023. Support for initiating cutting-edge research projects for three years.*
- **Best Poster Award:**  
*IEEE/ACM International Conference on Big Data Computing, Applications and Technologies, Austin, TX, 2017.*
- **Best Paper Award:**  
*IEEE International Conference on Data Science and Advanced Analytics, Montreal, Canada, 2016.*
- **Turkish National Ministry of Education Scholarship:**  
Comprehensive funding for graduate studies at prestigious international institutions, 2009–2017.
- **Nomination for Researcher of the Year:**  
Indiana University, Bloomington; Academic Years 2016–2017.
- **Nomination for Associate Instructor of the Year:**  
Indiana University, Bloomington; Academic Years 2014–2015.
- **Computer Science Graduate Fellowship:**  
Indiana University, Bloomington; August 2010–May 2012.

## Service

### University Committees

- **Fall 2023, Texas A&M University at Qatar:** ABET & Curriculum; Seminars & Invited Speakers; Budget; Teaching Load Model.
- **Spring 2024, Texas A&M University at Qatar:** ABET & Curriculum; Seminars & Invited Speakers; Budget.

### Professional Engagements

<i>Nature Scientific Reports</i>	Editorial Board Member	2023 - Present
<i>Manning</i>	Technical Editor	2023 - Present
<i>Pearson</i>	Data Science Advisory Board Member	2023 - 2024

### Organizing Conferences

- **Organizing Committee Member of The 11th IEEE International Conference on Data Science and Advanced Analytics (DSAA'24):** Special session on Advancing Materials Science through Data Science: Innovations, Applications, and Challenges.
- **Program Committee Member of the 8th, 7th, and 6th Basarim High-Performance Computing Conference (Basarim'24, '22, '20):** Engaged in reviewing and selecting high-quality submissions for presentations and publications.

**Reviewer Contributions** I have had the privilege of serving as a peer reviewer for a diverse array of prestigious journals across multiple disciplines, including but not limited to:

- *Concurrency and Computation: Practice and Experience*, *Journal of Energy Storage*, *Information Sciences*, *Machine Learning: Science and Technology*, and *Basarim*.

## Invited Talks

### Conferences, Teaching & Hiring

- *Novel NBA Fantasy League driven by Engineered Team Chemistry and Scaled Position Statistics*  
IEEE International Conference on Big Data: Data-Centric AI, Sorrento, Italy, December 15, 2023.
- *Are Sports Awards About Sports? Using AI to Find the Answer*  
ECML/PKDD: 10th Workshop on Machine Learning and Data Mining for Sports Analytics, Turin, Italy September 18, 2023.
- *Data-Centric Machine Learning*  
Various Universities (San Jose State, University of Houston, University of Montana, American University of the Middle East, United Arab Emirates University, University of Illinois, Zayed University, University of Missouri, University of South Carolina, etc.), 2022-2023.
- *Clustering in Data Science*  
Department of Statistics and Data Science, Northwestern University, Spring 2022.
- *Comparison of Machine Learning Algorithms for CuO Nanoparticles*  
4th International Conference on Physical Chemistry and Functional Materials (PCFM21), Elazığ, Turkey, April 8, 2021.
- *Practical Data Science: Examining the Correlations between Structural and Electronic Properties of Different Phases of TiO<sub>2</sub> Nanoparticles*  
International Conference on Advanced Technologies (ICAT), Istanbul, Turkey, August 12, 2020.
- *Predicting Atom Types of Anatase TiO<sub>2</sub> Nanoparticles with Machine Learning*  
International Conference on Engineering and Innovative Materials (ICEIM), Singapore, September 5, 2020.
- *Introduction to Data Science*  
Computer Engineering Department, Izmir Institute of Technology, Spring 2020.
- *Clustering Techniques in Engineering*  
Computer Engineering Department, Yildirim Beyazit University, Spring 2019.
- *Data Science Fundamentals*  
Informatics Department, Istanbul Technical University, Fall 2018.
- *Using Data Analytics to Optimize Public Transportation on a College Campus*  
IEEE International Conference on Data Science and Advanced Analytics (DSAA), Turin, Italy, October 4, 2018.
- *Data Science and Big Data*  
Eli Lilly and Company, Fall 2017.
- *A Novel Approach to Optimization of Iterative Machine Learning Algorithms: Over Heap Structure*  
IEEE International Conference on Big Data (Big Data), Boston, MA, USA, December 14, 2017.
- *Improving Expectation Maximization Algorithm over Stellar Data*, *Workshop on Management Search and Mining of Massive Repositories of Solar and Stellar Astronomy Data*, Boston, MA, USA, December 12, 2017.



- *Case Study: Clustering Big Stellar Data with EM\**  
IEEE/ACM International Conference on Big Data Computing, Applications and Technologies (BDCAT), Austin, Texas, USA, December 7, 2017.
- *EM\*: An EM Algorithm for Big Data*  
IEEE International Conference on Data Science and Advanced Analytics (DSAA), Montreal, Canada, October 18, 2016.
- *EM Algorithms for Clustering*  
Computer Science Department, Indiana University, Fall 2016.
- *Principal Component Analysis*  
Computer Science Department, Indiana University, Fall 2016.
- *A New Set of Random Forests with Varying Dynamic Data Reduction and Voting Techniques*  
IEEE International Conference on Data Science and Advanced Analytics, Shanghai, China, October 30, 2014.
- *Data Structures and Algorithms*  
Computer Science Department, Indiana University, Spring 2014.
- *Ensemble Models in Machine Learning*  
Computer Science Department, Indiana University, Spring 2013.

## Teaching Experience

### **Assistant Professor, Electrical and Computer Engineering** Texas A&M University, Doha, Qatar

- ENGR 102: Engineering Lab I: Computation (Undergraduate) — Spring 2024, Fall 2024
- ECEN 210: Computer Programming and Algorithms (Undergraduate) — Fall 2023, Fall 2024
- ECEN 248: Introduction to Digital Systems Design (Undergraduate) — Fall 2023

### **Visiting Associate Professor, Computer Science Department** Indiana University, IN, USA

- CSCI-B 565: Data Mining (Graduate Level) — Spring 2023
- CSCI-B 365: Introduction to Computers and Programming (Undergraduate) — Spring 2023
- CSCI-C 241: Discrete Structures for Computer Science (Undergraduate) — Fall 2022
- CSCI-C 241: Discrete Structures for Computer Science (Undergraduate) — Summer 2022
- CSCI-B 365: Introduction to Data Analysis and Mining (Undergraduate) — Spring 2022
- CSCI-B 505: Applied Algorithms (Graduate Level) — Fall 2021

### **Dr. Lecturer, Computer Engineering Department** Siirt University, Turkey

- BMH101: Algorithms and Programming I (Undergraduate) — Spring 2019, Fall 2019
- BMH 406: Data Security (Undergraduate) — Spring 2019
- BMH 104: Web and Internet Technologies (Undergraduate) — Spring 2019
- BMH 205: Data Structures (Undergraduate) — Fall 2018
- BMH 413: Artificial Neural Networks (Undergraduate) — Fall 2018, Fall 2019
- BMH 103 Introduction to Computer Engineering (Undergraduate) — Fall 2018, Fall 2019

**Visiting Assistant Professor, Computer Science Department Indiana University, IN, USA**

- CSCI-P 556: Applied Machine Learning (Graduate) — Fall 2017
- INFO-I590: Online Applied Data Mining (Graduate) — Fall 2017
- CSCI-B 351: Elements of Artificial Intelligence (Graduate) — Spring 2018
- CSCI-B 365: Introduction to Data Analysis and Mining (Undergraduate) — Spring 2018

**Senior Associate Instructor, Computer Science Department Indiana University, IN, USA**

- CSCI-B 565: Data Mining (Graduate Level) — Fall 2016
- CSCI-B 351: Elements of Artificial Intelligence (Graduate) — Spring 2017

**Associate Instructor, Computer Science Department Indiana University, IN, USA**

- CSCI-B 565: Data Mining (Graduate Level) — Fall 2012, Fall 2013, Spring 2015, Spring 2016
- CSCI-B 555: Machine Learning (Graduate) — Spring 2013
- CSCI-C 343: Data Structures (Undergraduate/Graduate) — Spring 2014
- CSCI-B 365: Seminar in Computer Science: Data Mining (Undergraduate) — Fall 2014, Fall 2015
- CSCI-B 609: Topics in Algorithms and Computing Theory (Graduate) Fall — 2014
- INFO-I590: Real World Data Science (Graduate, Online) - Summer 2016, Sponsored by Eli Lilly

## Professional Experience

**Texas A&M University, Doha, Qatar**

*Assistant Professor, Electrical and Computer Engineering Department*

**Contact:** Dr. Erchin Serpedin, [eserpedin@qatar.tamu.edu](mailto:eserpedin@qatar.tamu.edu), **Period:** June 2023 - Present

**Indiana University Bloomington, IN, USA**

*Adjunct Associate Professor, Computer Science Department and Data Science Program*

**Contact:** Dr. Yuzhen Ye, [yze@indiana.edu](mailto:yze@indiana.edu), **Period:** June 2023 - Present

**Indiana University Bloomington, IN, USA**

*Visiting Associate Professor, Computer Science Department*

**Contact:** Dr. Yuzhen Ye, [yze@indiana.edu](mailto:yze@indiana.edu), **Period:** July 2021 - June 2023

**Siirt University, Siirt, Turkey**

*Dr. Lecturer, Computer Engineering Department*

**Contact:** Dr. Musa Atas, [hakmesyo@gmail.com](mailto:hakmesyo@gmail.com), **Period:** August 2018 - July 2021

**Indiana University Bloomington, IN, USA**

*Visiting Assistant Professor, Computer Science Department*

**Contact:** Dr. Amr Sabry, [sabry@indiana.edu](mailto:sabry@indiana.edu), **Period:** August 2017 - August 2018

**Turbo Appeal, Chicago, IL, USA**

*Data Scientist*

**Contact:** Scott Beason, [scottmbeason@gmail.com](mailto:scottmbeason@gmail.com), **Period:** January 2015 - December 2015



**Indiana University Bloomington, IN, USA**

*Undergraduate Research Mentor*

**Contact:** Dr. Lamara D. Warren, `ldwarren@indiana.edu`, **Period:** January 2015 - May 2017

## Computer and Language Skills

- **Programming Languages:**  
Python, C, C++, C#, Java
- **Technical Software:**  
R, Matlab, OpenCV, Octave, OpenBUGS, WinBUGS, Weka, Tableau, Knime
- **Databases:**  
MySQL, NoSQL, PostgreSQL, SQL Server
- **Languages:**  
Fluent in English, Native in Turkish

## References

*Available upon request.*