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Tamer M. Elsayed

PROFILE SUMMARY

- Associate Professor at Qatar University since August 2018.
- Got Ph.D. in Computer Science from University of Maryland, College Park, US in 2009.
- Google Scholar Profile (as of Dec 28th 2024): 4044 citations, h-index of 36, and h10-index of 71.
- Published at top conferences (SIGIR, CIKM, ACL, AAAI, ECIR, IJCAI, ICWSM, COLING, HCOMP, CloudCom) and journals (JASIST, IP&M, pVLDB, JAIR, IRJ).
- TPC member of top IR conferences and journals since 2017.
- Member of the editorial board of IP&M journal, Elsevier.
- The founder and director of bigIR research group at Qatar University.
- Received more than $3.8M funding from QNRF as Lead-PI on four NPRP grants and as PI on two other NPRP grants.
- Collaborated with Carnegie-Mellon University (Qatar), University of Texas-Austin (US), RMIT University (Australia), University of Maryland, College Park (US), University of Edinburgh (UK), and Qatar Computing Research Institute (Qatar).
- Received QU CENG Dean's Award on Excellence in Research in 2023.
- Received the Outstanding Reviewer Award at ECIR 2024 and the best reviewer award at CIKM 2021.
- Received the best paper awards at WANLP 2021 workshop, HCOMP 2016 conference, and AIRS 2015 conference.
- Received the Award of Excellence in Services in 2018 from Computer Science and Engineering Dept. at Qatar University.
- Ranked 1st at TREC 2016 in real-time summarization track-push notification task among 19 international teams including strong academic, research, and industrial institutes.
- Ranked 2nd at TREC 2019 in news track-background linking task among 9 international teams.
- Supervised 11 MSc students (10 graduated) & 6 PhD students (4 graduated).
- Proposed and taught the first "Big Data Analytics" PhD course and "Data Science" undergraduate course at QU.
- Proposed and taught the first "Machine Learning" Graduate course at Computer Science Dept. at QU.
- Appointed manager of Data Science group at KINDI center in Fall 2016
- Elected coordinator of Data Science group at CSE department in Spring 2017.
- Organized Qur'an QA Shared Task at OSACT 2022 Workshop (at LREC 2022) and at WANLP 2023 Conference.
- Co-chair of the 2nd ACM SIGIR/SIGKDD Africa Summer School on Machine Learning for Data Mining and Search (AFIRM'20), Cape Town, South Africa, Jan 2020.
- Co-organized CheckThat! Lab (Automatic Identification and Verification of Claims) at CLEF 2018, CLEF 2019, CLEF 2020, CLEF 2021, CLEF 2023, and CLEF 2024.
- Co-organized OSACT Workshop (Workshop on Open-Source Arabic Corpora and Processing Tools) at LREC 2018, LREC 2020, and LREC 2022.
- Chair of BroDyn workshop (Workshop on Analysis of Broad Dynamic Topics over Social Media) at ECIR 2018, Grenoble, France, March 2018.

RESEARCH INTERESTS

Information Retrieval: Design and evaluation of search engines/information retrieval systems, search and filtering over (Arabic) social media, distributed algorithms for IR systems, and web-scale data analytics.
Arabic Natural Language Processing: Design and evaluation of Arabic NLP systems for real-life applications (e.g., fake news detection, essay scoring, etc.), and applied machine learning.

EDUCATION

Ph.D. in Computer Science, August 2009
> *University of Maryland-College Park,* MD, US
> Dissertation Topic: Identity Resolution in Email Collections
> Advisor: Prof. Douglas W. Oard
> Award: Graduate Fellowship, Fall 2002 - Spring 2004
> GPA: 3.8

M.Sc. in Computer Science, May 2005
> *University of Maryland-College Park,* MD, US
> GPA: 3.8

M.Sc. in Computer Science, July 2001
> *Alexandria University,* Egypt
> Thesis Topic: Feedback Consolidation in Point-to-Multipoint Connections of ABR Service in
> ATM Networks.
> Advisor: Prof. Nazih El-Derini
> GPA: 4.0

B.Sc. in Computer Science and Automatic Control, June 1997
> *Alexandria University,* Egypt
> Graduation Grade: Excellent with degree of honor
> Awards: Faculty Certificate of Honor 1993-1997
> Graduation Project: Human Face Recognition
> GPA: 3.7

EMPLOYMENT

Associate Professor, August 2018 – Present
> *Computer Science and Engineering Dept., College of Engineering*
> *Qatar University, Doha, Qatar*

Assistant Professor, September 2012 – August 2018
> *Computer Science and Engineering Dept., College of Engineering*
> *Qatar University, Doha, Qatar*

Researcher, September 2011 – August 2012
> *Microsoft Advanced Technology Lab*
> *Cairo, Egypt*

Post-Doctoral Fellow, September 2010 – August 2011
> *Mathematical and Computer Sciences and Engineering Division*
> *King Abdullah University of Science and Technology (KAUST), Saudi Arabia*

Post-Doctoral Researcher, September 2009 – August 2010
> *iSchool, Cloud Computing Center*
> *University of Maryland-College Park, MD, US*

Software Engineer Intern [Summer Internship], June 2007 – August 2007
> *Google, Mountain View, CA, US*

Graduate Research Assistant, June 2004 – August 2009
> *Computer Science Department*
> *University of Maryland-College Park, MD, US*

Graduate Teaching Assistant, August 2002 – May 2004
> *Computer Science Department*
> *University of Maryland-College Park, MD, US*

Graduate Teaching Assistant, January 1998 – July 2002
> *Department of Computers and Automatic Control*
> *Alexandria University, Alexandria, Egypt*

Software Engineer, August 1997 – July 2002
> *KME Computools, Alexandria, Egypt*

AWARDS & ACHIEVEMENTS

Outstanding Reviewer Award at ECIR 2024

Got "Outstanding Reviewer Award" at the 46th European Conference on Information Retrieval (ECIR'24).

CENG Dean's Award for Excellence in Research 2023

Received the Dean's Award for Excellence in Research from College of Engineering, Qatar University.

Best Reviewer Award at CIKM 2021

Got "Best Reviewer Award" at the 30th International Conference on Information and Knowledge Management (CIKM'21). The award was given to 30 reviewers out of 1,600 reviewers.

Best Paper Award at WANLP 2021

Got best paper award at the 6th Workshop on Arabic Natural Language Processing (WANLP 2021) for the paper titled "ArCOV19-Rumors: Arabic COVID-19 Twitter Dataset for Misinformation Detection" co-authored with Fatima Haouari, Maram Hasanain, and Reem Suwaileh.

Ranked 2nd at TREC News Track 2019

Our QU team (Marwa Essam and me) was ranked 2nd at TREC 2019 in News track, news background linking task (among 9 international teams).

Promotion to Associate Professor of Computer Science (Aug 2018)

Promoted to the rank of Associate Professor of Computer science at our CSE department in Aug 2018.

CSE Excellence in Services Award (2017/2018)

Received the Excellence in Services award from Computer Science and Engineering Dept. at Qatar University for the academic year 2017/2018.

Ranked 1st and 2nd at TREC Real-time Summarization Track 2016

Our QU team (Reem Suwaileh, Maram Hasanain, and me) got ranked 1st at TREC 2016 in Real-time Summarization track push notification task (among 19 international teams), and 2nd in email digest task (among 15 international teams).

Best Paper Award at HComp 2016

Got best paper award at the 4th AAAI Conference on Human Computation and Crowdsourcing (HCOMP 2016) for the paper titled "Why Is That Relevant? Collecting Annotator Rationales for Relevance Judgments" co-authored with Tyler McDonnell, Matt Lease, and Mucahid Kutlu.

Best Paper Award at AIRS 2015

Got best paper award at Asia Information Retrieval Societies Conference (AIRS) 2015 for the paper titled "Improving Tweet Timeline Generation by Predicting Optimal Retrieval Depth" co-authored with my PhD student Maram Hasanain and Walid Magdy (QCRI).

AWARDS & ACHIEVEMENTS OF MY SUPERVISED STUDENTS

Outstanding Reviewer Award at ECIR 2024 (My PhD student Fatima Haouari)

My PhD student Fatima Haouari got the "Outstanding Reviewer Award" at the 46th European Conference on Information Retrieval (ECIR'24).

GSRA Research Grant Awarded (My prospective student Salam Albatarni, Aug 2023)

My prospective MSc student Salam Albatarni has been awarded GSRA research grant funding from QNRF for her MSc study at Qatar University.

2nd Best CS Senior Project Award (2020/2021)

My senior students Aisha Al-Mirza, Fatima Al Majid, and Maryam Al-Jabir won the "2nd Best CS Senior Project Award" of academic year 2020/2021 with their senior (graduation) project titled "Check it Before You Spread it! Hadith Verification over Twitter" that I supervised.

Best Doctoral Consortium Paper Award at ECIR 2021 (My PhD student Marwa Essam)

My PhD student Marwa Essam has won the "Best Doctoral Consortium Paper Award" at 43rd European Conference on Information Retrieval (ECIR'21) for her doctoral consortium paper titled "Background Linking of News Articles" that is based on her PhD proposal.

GSRA Research Grant Awarded (My prospective PhD student Fatima Haouari, Aug 2019)

My prospective PhD student Fatima Haouari has been awarded GSRA research grant funding from QNRF for her PhD study at Qatar University.

GSRA Research Grant Awarded (My prospective student Reem Suwaileh, Aug 2018)

My prospective PhD student Reem Suwaileh has been awarded GSRA research grant funding from QNRF for her PhD study at Qatar University.

Best CSE Senior Project Award (2014/2015)

My senior students Abdelrazek Ibrahim, Karim Fahmi, and Ahmed Abdelhamid team won the "Best CSE Senior Project Award" of academic year 2014/2015 with their senior (graduation) project titled "Smart Shopping Cart" that I supervised.

First MSc with Distinction in QU-CENG History (My MSc student Maram Hasanain, Sep 2014)

My student Maram Hasanain has received her MSc thesis degree *with Distinction* (without modifications) in the first time in the history of College of Engineering at Qatar University.

RESEARCH GRANTS

INTERNATIONAL GRANTS

1. **Dimension-Specific Automated Scoring of Arabic Language Writing Proficiency** [as Lead-PI]
   Qatar National Research Fund (QNRF), National Priorities Research Program (NPRP-S) 14th Cycle, NPRP14S-0402-210127, 3 years starting April 2023, $529,076.
   In collaboration with Houda Bouamor (CMU-Q) and Walid Massoud (Qatar University)

2. **Early Detection of Fake News over Arabic Social Media** [as Lead-PI]
   Qatar National Research Fund (QNRF), National Priorities Research Program (NPRP) 11th Cycle, NPRP11S-1204-170060, 3 years starting June 2019, $580,015.
   In collaboration with Walid Magdy (University of Edinburgh) and Abdulaziz Alali (Qatar University)

3. **Efficient and Scalable Evaluation for Searching Massive Arabic Social Media and Web Collections** [as Lead-PI]
   Qatar National Research Fund (QNRF), National Priorities Research Program (NPRP) 7th Cycle, NPRP 7-1313-1-245, 3 years starting July 2015, $883,847.
   In collaboration with Matt Lease (University of Text, Austin, USA)

4. **Answering Real-time Questions from Arabic Microblogs** [as Lead-PI]
   Qatar National Research Fund (QNRF), National Priorities Research Program (NPRP) 6th Cycle, NPRP 6-1377-1-257, 3 years starting Feb 2014, $1,045,414.
   In collaboration with Doug Oard (UMD, USA) and Mark Sanderson (RMIT, Australia)

5. **Scalable Analytics Engine for Big Graphs on the Cloud** [as PI]
   Qatar National Research Fund (QNRF), National Priorities Research Program (NPRP) 7th Cycle, NPRP 7-1330-2-48, 3 years starting Dec. 2015, $899,234.
   In collaboration with Muhammad Hammoud (Carnegie-Mellon University, Qatar) and Ramy Melhem (University of Pittsburg, USA)

6. **Qloud: Towards a Cloud Computing Infrastructure in Qatar to Target Regional Scientific Applications** [as Co-PI]
   Qatar National Research Fund (QNRF), National Priorities Research Program (NPRP) 3rd Cycle (2012), NPRP 09-1116-1-172, 3 years starting Dec 2010, $996,184.26.
   In collaboration with Majd Sakr (Carnegie-Mellon University, Qatar) and Qutaibah Malluhi (QU)

INTERNAL GRANTS

1. **Context and Background Linking of News Documents [as Sole PI]**
   Qatar University internal student grant, QUST-2-CENG-2020-21, Sep-Dec 2020, $3,835.

2. **Question Answering on the Holy Qur'an (Extended) [as Sole PI]**
   Qatar University internal student grant, QUST-2-CENG-2020-20, Sep-Dec 2020, $3,835.

3. **Evidence-supported Detection of Fake Arabic News (Extended) [as Sole PI]**
   Qatar University internal student grant, QUST-2-CENG-2019-20, Sep-Dec 2019, $5,479.

4. **Evidence-supported Detection of Fake Arabic News [as Sole PI]**
   Qatar University internal student grant, QUST-1-CENG-2019-32, Feb-May 2019, $5,240.

5. **Question Answering on the Holy Qur'an [as Sole PI]**
   Qatar University internal student grant, QUST-1-CENG-2018-24, 1 year starting Jan 2018, $2,732.

6. **Scalable Search Engine over Spark [as Sole PI]**
   Qatar University internal student grant, QUST-1-CENG-2018-25, 1 year starting Jan 2018, $2,713.

7. **Arabic Dialect Identification Over Twitter [as Sole PI]**
   Qatar University internal student grant, QUST-CENG-SPR\2017-21, 1 year starting Jan 2017, $2,725.

8. **Smart Shopping Assistant [as Sole PI]**
   Qatar University internal student grant, QUST-CENG-FALL-14\15-15, Dec 2014-Dec 2015, $2,750.

9. **Effective Retrieval and Filtering in Microblogs [as Sole PI]**
   Qatar University internal student grant, QUST-CENG-SPR-12/13-7, June 2013-June 2014, $2,750.

10. **Real-time Search in Twitter [as Sole PI]**
    Qatar University internal start-up grant, QUSG-CENG-CSE-12/13-1, Apr 2013-Apr 2014, $11,000.

PUBLICATIONS

JOURNAL PUBLICATIONS

1. Marwa Essam and **Tamer Elsayed**. Zero-Shot Reranking with Dense Encoder Models for News Background Linking. PeerJ Computer Science. Accepted in Oct 2024. To appear.

2. Fatima Haouari, **Tamer Elsayed**. Are authorities denying or supporting? Detecting stance of authorities towards rumors in Twitter. Social Network Analysis and Mining. Vol. 14, Article 34, January 2024. https://doi.org/10.1007/s13278-023-01189-3.

3. Watheq Mansour, **Tamer Elsayed**, Abdulaziz Al-Ali. This is Not New! Spotting Previously-Verified Claims over Twitter. Information Processing and Management (IP&M) Journal, Elsevier, Vol. 60, Issue 4, 1034142023, July 2023. https://doi.org/10.1016/j.ipm.2023.103414.

4. Fatima Haouari, **Tamer Elsayed**, and Watheq Mansour. Who can verify this? Finding authorities for rumor verification in Twitter. Information Processing & Management (IP&M) Journal, Elsevier, Vol. 60, Issue 4, 103366, July 2023. https://doi.org/10.1016/j.ipm.2023.103366.

5. Reem Suwaileh, **Tamer Elsayed**, Muhammad Imran. IDRISI-RE: A Generalizable Dataset with Benchmarks for Location Mention Recognition on Disaster Tweets. Information Processing and Management (IP&M) Journal, Elsevier, Vol. 60, Issue 3, 103340, May 2023. https://doi.org/10.1016/j.ipm.2023.103340.

6. Haya Al-Thani, Bernard J. Jansen, **Tamer Elsayed**. ECAsT: a large dataset for conversational search and an evaluation of metric robustness. PeerJ Computer Science 9:e1328, April 2023. https://doi.org/10.7717/peerj-cs.1328.

7. Marwa Essam and **Tamer Elsayed**. Unsupervised query reduction for efficient yet effective news background linking. PeerJ Computer Science 9:e1191, Jan 2023. https://doi.org/10.7717/peerj-cs.1191

8. Haya Al-Thani, **Tamer Elsayed**, and Bernard J. Jansen. Improving Conversational Search with Query Reformulation using Selective Contextual History. Data and Information Management Journal. Elsevier, Vol. 7, Issue 2, 100025, June 2023. https://doi.org/10.1016/j.dim.2022.100025

9. Rana Malhas and **Tamer Elsayed**. Arabic Machine Reading Comprehension on the Holy Qur'an using CL-AraBERT. Information Processing and Management (IP&M) Journal, Elsevier, Vol. 59, Issue 6, 103068, November 2022. https://doi.org/10.1016/j.ipm.2022.103068

10. Reem Suwaileh, **Tamer Elsayed**, Muhammad Imran, Hassan Sajjad. When a disaster happens, we are ready: Location mention recognition from crisis tweets. International Journal of Disaster Risk Reduction (IJDRR), Vol. 78, 103107, August 2022. https://www.sciencedirect.com/science/article/abs/pii/S2212420922003260

11. Maram Hasanain and **Tamer Elsayed**. Studying effectiveness of Web search for fact checking. Journal of the Association for Information Science and Technology (JASIST), Vol. 73, Issue 5, pp. 738-751, 2022. https://asistdl.onlinelibrary.wiley.com/doi/full/10.1002/asi.24577

12. Mucahid Kutlu, Tyler McDonnell, **Tamer Elsayed**, Matthew Lease. Annotator Rationales for Labeling Tasks in Crowdsourcing. Journal of Artificial Intelligence Research (JAIR), Vol. 69 pp. 143-189, 2020. https://www.jair.org/index.php/jair/article/view/12012

13. Rana Malhas and **Tamer Elsayed**. AyaTEC: Building a Reusable Verse-based Test Collection for Arabic Question Answering on the Holy Qur'an. ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP), Vol. 19, No. 6, Article 78(pp, 1-21), October 2020. https://dl.acm.org/doi/10.1145/3400396

14. Yousuf Ahmad, Omar Khattab, Arsal Malik, Ahmad Musleh, Mohammad Hammoud, Mucahid Kutlu, Mostafa Shehata, **Tamer Elsayed**. LA3: A Scalable Link- and Locality-Aware Linear Algebra-Based Graph Analytics System. Proceedings of the VLDB Endowment (PVLDB), Vol. 11(8), pp. 920-933, 2018. http://www.vldb.org/pvldb/vol11/p920-ahmad.pdf

15. Maram Hasanain, Reem Suwaileh, **Tamer Elsayed**, Mucahid Kutlu, and Hind Almerekhi. EveTAR: Building a Large-Scale Multi-Task Test Collection over Arabic Tweets. Information Retrieval Journal, Springer, (2018) 21:307–336, Springer, 2018. https://link.springer.com/article/10.1007/s10791-017-9325-7

16. Mucahid Kutlu, **Tamer Elsayed**, and Matthew Lease. Intelligent topic selection for low-cost information retrieval evaluation: A New perspective on deep vs. shallow judging. Information Processing and Management, Vol. 54(1), Elsevier, 2018. https://doi.org/10.1016/j.ipm.2017.09.002

17. Maram Hasanain and **Tamer Elsayed**. Query Performance Prediction for Microblog Search. Information Processing and Management, Vol. 53(6), pp. 1320–1341, Elsevier, 2017. https://doi.org/10.1016/j.ipm.2017.08.002

18. Walid Magdy and **Tamer Elsayed**. Unsupervised Adaptive Microblog Filtering for Broad Dynamic Topics. Information Processing and Management, Vol. 52(4), pp. 513-528, Elsevier, 2016.

19. Fan Zhang, Qutaibah. M. Malluhi , **Tamer Elsayed**, Samee U. Khan, Keqin Li. CloudFlow: Data-aware Programming Model for Cloud Workflow Applications on Modern HPC Systems. Future Generation Computer Systems Journal, Vol. 51, pp. 98–110, Elsevier, 2015.

20. Hyunmo Kang, Catherine Plaisant, **Tamer Elsayed**, and Douglas W. Oard. Making Sense of Archived Email: Exploring the Enron Collection with NetLense. Journal of the American Society for Information Science and Technology (JASIST), 61: 723–744, April 2010.

21. Moustafa Youssef, **Tamer Elsayed**, Mohamed Hussein, Tamer Nadeem, Adel Youssef, and Liviu Iftode. IBN: A Communication Paradigm for Mobile Applications. Mobile Computing and Communications Review. Vol. 7, No. 4, pp. 66-67, October 2003.

CONFERENCE PUBLICATIONS

1. Marwa Essam and **Tamer Elsayed**. Can Large Language Models Effectively Rerank News Articles for Background Linking?. Proceedings of the 47th European Conference on Information Retrieval (ECIR'25), Lucca, Italy, April 2025, to appear.

2. May Bashendy, Salam Albatarni, Sohaila Eltanbouly, Eman Zahran, Hamdo Elhuseyin, **Tamer Elsayed**, Walid Massoud, Houda Bouamor. QAES: First Publicly-Available Trait-Specific Annotations for Automated Scoring of Arabic Essays. Proceedings of The Second Arabic Natural Language Processing Conference (ArabicNLP'24), pp. 337-351, Bangkok, Thailand, August 2024. https://aclanthology.org/2024.arabicnlp-1.28/

3. Fatima Haouari, **Tamer Elsayed**, Reem Suwaileh. AuRED: Enabling Arabic Rumor Verification using Evidence from Authorities over Twitter. Proceedings of The Second Arabic Natural Language Processing Conference (ArabicNLP'24), pp. 27-41, Bangkok, Thailand, August 2024. https://aclanthology.org/2024.arabicnlp-1.3/

4. Mohammed Khalilia, Sanad Malaysha, Reem Suwaileh, Mustafa Jarrar, Alaa Aljabari, **Tamer Elsayed**, Imed Zitouni. ArabicNLU 2024: The First Arabic Natural Language Understanding Shared Task. Proceedings of The Second Arabic Natural Language Processing Conference (ArabicNLP'24), pp. 361-371, Bangkok, Thailand, August 2024. https://aclanthology.org/2024.arabicnlp-1.30/

5. Salam Albatarni, Sohaila Eltanbouly, **Tamer Elsayed**. Graded Relevance Scoring of Written Essays with Dense Retrieval. Proceedings of the 47th Annual ACM International Conference on Research and Development in Information Retrieval (SIGIR'24), Washington DC, USA, pp. 1329-1338, July 2024. https://dl.acm.org/doi/10.1145/3626772.3657744.

6. Watheq Mansour, Salam Albatarni, Sohaila Eltanbouly, **Tamer Elsayed**. Can Large Language Models Automatically Score Proficiency of Written Essays?. Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024), pp. 2777-2786, Torino, Italy, May 2024. https://aclanthology.org/2024.lrec-main.247/

7. Alberto Barrón-Cedeño1, Firoj Alam, Tanmoy Chakraborty, **Tamer Elsayed**, Preslav Nakov, Piotr Przybyła, Julia Maria Struß, Fatima Haouari, Maram Hasanain, Federico Ruggeri, Xingyi Song, and Reem Suwaileh. The CLEF-2024 CheckThat! Lab: Check-Worthiness, Subjectivity, Persuasion, Roles, Authorities, and Adversarial Robustness. In: Goharian, N., et al. Advances in Information Retrieval. ECIR 2024. Lecture Notes in Computer Science, vol 14612. Springer, Cham. https://doi.org/10.1007/978-3-031-56069-9_62.

8. Rana Malhas, Watheq Mansour, **Tamer Elsayed**. Qur'an QA 2023 Shared Task: Overview of Passage Retrieval and Reading Comprehension Tasks over the Holy Qur'an. Proceedings of First Arabic Natural Language Processing Conference (ArabicNLP'23), pp. 690-701, Singapore, 2023. https://aclanthology.org/2023.arabicnlp-1.76/.

9. Reem Suwaileh, **Tamer Elsayed**, Muhammad Imran. IDRISI-D: Arabic and English Datasets and Benchmarks for Location Mention Disambiguation over Disaster Microblogs. Proceedings of First Arabic Natural Language Processing Conference (ArabicNLP'23), pp. 158-169, Singapore, Dec 2023. https://aclanthology.org/2023.arabicnlp-1.14/.

10. Reem Suwaileh, Muhammad Imran, and **Tamer Elsayed**. IDRISI-RA: The First Arabic Location Mention Recognition Dataset of Disaster Tweets. Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (ACL'23), pp. 16298–16317, Toronto, Canada. July 2023. https://aclanthology.org/2023.acl-long.901/.

11. Zien Sheikh Ali, Watheq Mansour, Fatima Haouari, Maram Hasanain, **Tamer Elsayed**, Abdulaziz Al-Ali. Tahaqqaq: A Real-Time System for Assisting Twitter Users in Arabic Claim Verification. Proceedings of the 46th Annual ACM International Conference on Research and Development in Information Retrieval (SIGIR'23), pp. 3170-3174, Taiwan, July 2023. https://doi.org/10.1145/3539618.3591815.

12. Dilara Dogan, Bahadir Altun, Muhammed Said Zengin, Mucahid Kutlu, **Tamer Elsayed**. Catch Me If You Can: Deceiving Stance Detection and Geotagging Models to Protect Privacy of Individuals on Twitter. Proceedings of the 17th International Conference on Web and Social Media (ICWSM'23), pp 173-184, July 2023. https://ojs.aaai.org/index.php/ICWSM/article/download/22136/21915.

13. Fatima Haouari and **Tamer Elsayed**. Detecting stance of authorities towards rumors in Arabic tweets: A preliminary study. In: Kamps, J., *et al.* Advances in Information Retrieval. ECIR 2023. Lecture Notes in Computer Science, vol. 13981, pp. 430-438, April 2023, Springer, Cham. https://doi.org/10.1007/978-3-031-28238-6_33

14. Barrón-Cedeño, A., Alam, F., Caselli, T., Da San Martino, G., **Elsayed, T.**, Galassi, A., Haouari, F., Ruggeri, F., et al.: The CLEF-2023 CheckThat! Lab: Checkworthiness, Subjectivity, Political bias, Factuality, and Authority of News Articles and Their Sources. In: J. Kamps et al. Advances in Information Retrieval. ECIR 2023. Lecture Notes in Computer Science, vol 13982, pp. 506-517, Springer, Cham. https://doi.org/10.1007/978-3-031-28241-6_59

15. Watheq Mansour, **Tamer Elsayed**, Abdulaziz Al-Ali. Did I see it before? Detecting previously-checked claims over Twitter. Proceedings of the 44th European Conference on Information Retrieval (ECIR'22), LNCS 13185, pp. 367–381, Stavanger, Norway, April 2022.

16. Preslav Nakov, David Corney, Maram Hasanain, Firoj Alam, **Tamer Elsayed**, Alberto Barrón-Cedeño, Paolo Papotti, Shaden Shaar, Giovanni Da San Martino. Automated Fact-Checking for Assisting Human Fact-Checkers. Proceedings of the 30th International Joint Conference on Artificial Intelligence (IJCAI-21), pp. 4551-4558, Montreal, Canada, August 2021.

17. Ammar Rashed, Mucahid Kutlu, Kareem Darwish, **Tamer Elsayed**, Cansın Bayrak. Embeddings-Based Clustering for Target Specific Stances: The Case of a Polarized Turkey. Proceedings of the 15th International Conference on Web and Social Media (ICWSM'21), pp. 537-548, 2021.

18. Preslav Nakov, Giovanni Da San Martino, **Tamer Elsayed**, Alberto Barrón-Cedeño, Rubén Míguez, Shaden Shaar, Firoj Alam, Fatima Haouari, Maram Hasanain, Nikolay Babulkov, Alex Nikolov, Gautam Kishore Shahi, Julia Maria Struß, and Thomas Mandl. The CLEF-2021 CheckThat! Lab on Detecting Check-Worthy Claims, Previously Fact-Checked Claims, and Fake News. Proceedings of the 43rd European Conference on Information Retrieval (ECIR'21), Virtual Event, Lecture Notes in Computer Science, vol. 12657, pp. 639–649, Springer, Cham, April 2021.

19. Reem Suwaileh, Muhammad Imran, **Tamer Elsayed**, and Hassan Sajjad. Are We Ready for this Disaster? Towards Location Mention Recognition from Crisis Tweets. Proceedings of the 28th International Conference on Computational Linguistics (COLING'20), pp. 6252–6263, Barcelona, Spain (Online), December 8-13, 2020.

20. Marwa Essam and **Tamer Elsayed**. Why is that a Background Article? A Qualitative Analysis of Relevance for News Background Linking. Proceedings of the 29th ACM International Conference on Information and Knowledge Management (CIKM'20), pp. 2009-2013, October 2020.

21. Md Mustafizur Rahman, Mucahid Kutlu, **Tamer Elsayed**, Matthew Lease. Efficient Test Collection Construction via Active Learning. Proceedings of the 10th International Conference on the Theory of Information Retrieval (ICTIR'20), pp.117-184, Sep. 2020.

22. Omar Khattab, Mohammad Hammoud and **Tamer Elsayed**. Finding the Best of Two Worlds: Faster and More Robust Top-k Document Retrieval. Proceedings of the 43rd annual international ACM conference on Research and development in information retrieval (SIGIR'20), pp. 1031-1040, Virtual Event, China, July 2020.

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REFEREED ABSTRACTS
1. Reem Suwaileh and **Tamer Elsayed**. Effective Realtime Tweet Summarization. Qatar Foundation Annual Research Conference Proceedings 2018 (3), ICTPD1061.2018.
2. Nassma Mohandes, Qutaibah Malluhi, and **Tamer Elsayed**. Effective Recommendation of Reviewers to Research Proposals. Qatar Foundation Annual Research Conference, Poster, 2014.

GRADUATE SUPERVISION

1. **Salam Albatarni, M.Sc. [As main advisor]**
   Title (tentative): Arabic Automated Essay Scoring
   Qatar University, QA
   Graduation: Spring 2025 (expected)

2. **Radwa Gad, M.Sc. [As main advisor]**
   Title (tentative): NLP for Material Science Discovery
   Qatar University, QA
   Graduation: Spring 2025 (expected)

3. **Marwa Essam, Ph.D. [As main advisor]**
   Title: Background Linking of News Articles
   Dissertation was accepted without modifications
   Qatar University, QA
   Graduated: Fall 2024

4. **Fatima Haouari, Ph.D. [As main advisor]**
   Title: Retrieval of authorities and their evidence for rumor verification in Arabic social media
   Dissertation was accepted without modifications
   Qatar University, QA
   Graduated: Spring 2024, now a Postdoctoral Research Associate at University of Sheffield

5. **Haya Al-Thani, Ph.D. [As co-advisor]**
   Title: Conversational Search in Open-Domain Information Seeking
   Hamad Bin Khalifa University, QA
   Graduated: Spring 2023

6. **Reem Suwaileh, Ph.D. [As main advisor]**
   Title: Location Mention Prediction from Disaster Tweets
   Dissertation was accepted without modifications
   Qatar University, QA
   Graduated: Spring 2023, now Research Associate at HBKU, Qatar

7. **Watheq Mansour, M.Sc. [As a co-advisor]**
   Title: Did I see it before? Detecting previously-checked claims over Arabic Twitter
   Thesis was accepted without modifications
   Qatar University, QA
   Graduated: Spring 2022, now PhD student at University of Queensland, Australia

8. **Zien Sheikh Ali, M.Sc. [As a co-advisor]**
   Title: Detecting Users Prone to Spread Fake News on Arabic Twitter
   Thesis was accepted without modifications
   Qatar University, QA
   Graduated: Fall 2022

9. **Rana Malhas, Ph.D. [As main advisor]**
   Title: Arabic Question Answering on the Holy Qur'an
   Dissertation was accepted without modifications
   Qatar University, QA
   Graduated: Fall 2022

10. **Maram Hasanain, Ph.D. [As main advisor]**
    Title: Enabling Effective Arabic Information Retrieval on the Web and Social Media
    Dissertation was accepted without modifications
    Qatar University, QA
    Graduated: Spring 2022, now PostDoc at QCRI

11. **Sara Alrasbi, M.Sc. [As main advisor]**
    Title: SparkIR: A Scalable Distributed Information Retrieval Engine over Spark
    Thesis was accepted without modifications
    Qatar University, QA
    Graduated: Fall 2019

12. **Nazar Salim, M.Sc. [As a co-advisor]**
    Title: Real-time Tweet Summarization Mobile Application
    Qatar University, QA
    Graduated: Spring 2018
13. **Reem Suwaileh, M.Sc. [As main advisor]**
    Title: On Relevance Filtering for Real-time Tweet Summarization
    Thesis was accepted without modifications
    Qatar University, QA
    Graduated: Spring 2018, now a Research Associate at HBKU, Qatar
14. **Hind AlMerekhi, M.Sc. [As main advisor]**
    Title: Building a Test Collection for Detecting Significant-Events in Arabic Tweets
    Qatar University, QA
    Graduated: Fall 2015, now a Senior Research Associate at QCRI, Qatar
15. **Latifa AlMarri, M.Sc. [As main advisor]**
    Title: Ad-hoc Search in Microblogs using Hashtags
    Qatar University, QA
    Graduated: Spring 2015
16. **Maram Hasanain, M.Sc. [As main advisor]**
    Title: Query Performance Prediction in Microblog Search
    Thesis was accepted without modifications
    Qatar University, QA
    Graduated: Fall 2014, now PostDoc at QCRI, Qatar
17. **Nassma Mohandes, M.Sc. [As a co-advisor]**
    Title: Effective Recommendation of Reviewers to Research Proposals
    Qatar University, QA
    Graduated: Spring 2013
18. **Eslam Elnikety, M.Sc. [As an <u>unofficial</u> co-advisor]**
    Title: iHadoop: Asynchronous Iterations for MapReduce
    King Abdullah University of Science and Technology, KSA
    Graduated: Summer 2011, now Software Engineer at Facebook

SCHOLARLY ACTIVITIES

PEER REVIEW

- Member of Editorial Board, IP&M, Elsevier, Nov 2016-current
- SPC member, ECIR 2025
- SPC member, ACM CIKM 2024
- SPC member, ACM SIGIR 2024
- SPC member, ECIR 2024
- PC member, ArabicNLP 2023
- PC member, ACM CIKM 2023
- SPC member, ACM SIGIR 2023
- PC member, CLEF 2023
- SPC member, ECIR 2023
- PC member, WANLP 2022
- PC member, ACM CIKM 2022
- PC member, ACM SIGIR 2022
- SPC member, ECIR 2022
- PC member, AAAI 2022
- PC member, ACM SIGIR 2021
- PC member, WANLP 2021
- PC member, ACM CIKM 2021
- PC member, CLEF 2021

- PC member, AAAI 2021
- PC member, ECIR 2021
- PC member, ACM ICTIR 2020
- PC member, ACM CIKM 2020
- PC member, ACM SIGIR 2020
- PC member, ECIR 2020
- PC member, CLEF 2020
- PC member, WANLP 2020
- PC member, ACM CIKM 2019
- PC member, ACM ICTIR 2019
- PC member, CLEF 2019
- PC member, ACM SIGIR 2019
- PC member, ECIR 2019
- PC member, ICSEC 2019
- PC member, ACM CIKM 2018
- PC member, ACM SIGIR 2018
- PC member, ACM ICTIR 2018
- PC member, WWW 2018
- PC member, CLEF 2018
- PC member, ACM ICTIR 2018
- PC member, NAACL 2018
- PC member, ACM CIKM 2017
- PC member, ACM SIGIR 2017
- PC member, ACM ICTIR 2017
- PC member, ACM WSDM 2017
- Reviewer, SemEval 2016
- PC member, ACM SIGIR-Short Papers 2016
- PC member, The 2nd Workshop on Arabic Corpora and Processing Tools, LREC 2016.
- PC member, NAACL 2015
- PC member and IR track co-chair, AICCSA 2014
- Reviewer, ACM SIGIR, 2011
- Reviewer, ACM SIGIR, 2008
- Reviewer, ACM SIGIR, 2006
- Reviewer, ACM Computing Surveys
- Reviewer, Foundations and Trends in Information Retrieval
- Reviewer, IEEE TKDE
- Reviewer, IP&M
- Reviewer, JASIST
- Reviewer, Journal of Information Retrieval (IRJ)
- Reviewer, ACM Transactions on Information Systems (TOIS)
- Reviewer, ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP)
- Reviewer, Journal of King Saud University (JKSU)
- Member, ACM SIGIR

INTERNATIONAL EVENT ORGANIZATION
- Co-organizor, ArabicNLU 2024 (Arabic Natural Language Understanding) Shared Task at ArabicNLP 2024 Conference, Aug 2024.
- Co-organizer, CheckThat! 2024 Lab (Checkworthiness, Subjectivity, Persuasion, Roles, Authorities and Adversarial Robustness) at CLEF 2024, Sep 2024.
- Co-organizer, OSACT 2024 Workshop (The 6th Workshop on Open-Source Arabic Corpora and Processing Tools) at LREC 2024, May 2024.
- Organizer, Qur'an QA 2023 Shared Task at ArabicNLP 2023 Conference, Dec 2023.

- Co-organizer, CheckThat! 2023 Lab (Checkworthiness, Subjectivity, Political Bias, Factuality, and Authority of News Articles and Their Sources) at CLEF 2023, Sep 2023.
- Organizer, Qur'an QA 2022 Shared Task at OSACT5 Workshop, June 2022.
- Co-organizer, OSACT 2022 Workshop (The 5th Workshop on Open-Source Arabic Corpora and Processing Tools) at LREC 2022, May 2022.
- Co-organizer, CheckThat! 2021 Lab (Detecting Check-Worthy Claims, Previously Fact-Checked Claims, and Fake News) at CLEF 2021, Sep 2021.
- Co-organizer, CheckThat! 2020 Lab (Enabling Automatic Identification and Verification of Claims in Social Media) at CLEF 2020, Greece, Sep 2020.
- Co-organizer, OSACT 2020 Workshop (The 4th Workshop on Open-Source Arabic Corpora and Processing Tools) at LREC 2020, May 2020.
- Co-chair, 2nd ACM SIGIR/SIGKDD Africa Summer School on Machine Learning for Data Mining and Search (AFIRM'20), Cape Town, South Africa, Jan 2020.
- Co-organizer, CheckThat! 2019 Lab (Automatic Identification and Verification of Claims) at CLEF 2019, Lugano, Switzerland, Sep 2019.
- Co-organizer, CheckThat! 2018 Lab (Automatic Identification and Verification of Claims in Political Debates) at CLEF 2018, Avignon, France, Sep 2018.
- Chair, BroDyn 2018 Workshop (Workshop on Analysis of Broad Dynamic Topics over Social Media) at ECIR 2018, Grenoble, France, March 2018.
- Co-organizer, OSACT 2018 Workshop (The 3rd Workshop on Open-Source Arabic Corpora and Processing Tools with ArabicWeb16 Data Challenge) at LREC 2018 Miyazaki, Japan, May 2018.

RESEARCH SUPERVISION (OTHER THAN GRADUATE STUDENTS)

1. Aysha Adaeeki, Undergraduate RA, QU
2. May Bashendy, RA, QU
3. Sohaila Eltanbouly, RA, QU
4. Salam Albatarni, RA, QU
5. Rayaan Khalid, RA, QU
6. Watheq Mansour, RA, QU
7. Zien Sheik Ali, RA, QU
8. Dr. Mucahid Kutlu, Post-Doc, QU
9. Dr. Marwan Torki, Post-Doc, QU
10. Yassmine Barkallah, RA, QU
11. Khaled Yasser, RA, QU
12. Mostafa Shehata, RA, QU
13. Rahma Ali, RA, QU
14. Khaled Yasser, Undergraduate RA, QU
15. Tawfik AlNass, Undergraduate RA, QU
16. Hira Yasin, RA, QU
17. Abeer Almarridi, RA, QU
18. Nihal Fathima, RA, QU
19. Reem Suwaileh, RA, QU
20. Fatma Almansouri, Undergraduate RA, QU
21. Abdelrahman Shouman, RA, QU
22. Linah Lotfi, Undergraduate RA, QU
23. Nada Aboueta, Undergraduate RA, QU
24. Maram Hasanain, RA, QU

TALKS

1. Tahaqqaq: A System to Help Twitter Users Verify Claims Spread in Arabic, King Salman Complex for the Arabic Language Conference, Oct 2024.
2. What it means to be a PhD Student Workshop, Invited Talk, Birzeit University, Palestine, Sep 2024.
3. Graded Relevance Scoring of Written Essays with Dense Retrieval, SIGIR 2024, July 2024.
4. Make the Difference!, Invited Talk, TAMUQ Graduate Research Forum, May 2024.
5. IR for Arabic, Islam, and Social Good, Invited Talk, QU CSE Seminar, Mar 2024.
6. Tahaqqaq: A Real-Time System for Assisting Twitter Users in Arabic Claim Verification, Invited Talk, Doha Data Forum, Oct 2023.
7. Research Issues You MUST Know! Invited Talk, Graduate Seminar at the Environmental Sciences Department, Qatar University, Sep 2023.
8. 10 Years of Research at QU: 10 Lessons Learned. Invited Talk. Sharing Experience Day, College of Engineering, Qatar University, Sep 2023.
9. Scientific Publishing and Unethical Practices, Invited Talk, the "Academic Integrity and Challenges of Scientific Publishing" symposium hosted online by Birzeit University, July 2023.
10. bigIR: Research, Resources, and Where to Go from There!, Invited Talk, Birzeit University, Online, Feb 2023.
11. Qur'an QA 2022 Shared Task Overview, Organizer's Talk, OSACT 2022 Workshop, May 2022.
12. FakeDet: Early Detection of Fake News over Arabic Social Media, Invited Talk, International Workshop on Arabic Big Data and AI (IWABigDAI), May 2022.
13. Arabic AI and Toxic Online Content Detection, Panelist, International Workshop on Arabic Big Data and AI (IWABigDAI), May 2022.
14. FakeDet: Early Detection of Fake News over Arabic Social Media. Invited Webinar, ROS, QNRF, Apr 2022.
15. What it means to be a PhD Student Workshop, Voluntary Workshop, Qatar University, April 2022.
16. What it means to be a PhD Student Workshop, Invited Talk, Birzeit University, Palestine, Mar 2022.
17. What it means to be a PhD Student Workshop. Voluntary Webinar, Online, Mar 2022.
18. Introduction to AI. Invited Talk, National Olympiad for Creativity in Mathematics, Science and Engineering, Feb 2022.
19. Introduction to AI. Invited Talk, Opening Ceremony of AI Organization at QU, QU, Oct 2021.
20. Information Retrieval (in Arabic), 10 lectures, Full Open Online Course, June 2021.
21. Arabic Information Retrieval: Tasks, Resources, and Challenges, Invited Webinar, Arabic Artificial Intelligence Summit (AAIS) 2021, April 2021.
22. AI 101. Invited Webinar, AI week at QU Computing Club, QU, Feb 2021.
23. AI and the Future of Humans, Invited Podcast Guest, Qatar University, Jan 2021.
24. FakeDet: Early Detection of Fake News over Arabic Social Media. Invited Webinar, AI ROS, QNRF, Nov 2020.
25. What it means to be a PhD Student. Invited Webinar, CIS-HBKU, Sep 2020.
26. FakeDet: Research on Fake News Detection at Qatar University. Invited Webinar, AI Symposium, CSE, QU, Sep 2020.
27. CheckThat! 2020: Enabling the Automatic Identification and Verification of Claims in Social Media. Organizer's Talk, CLEF 2020, Sep 2020.
28. What it means to be a PhD Student, Invited Webinar, Egypt Scholars, July 2020.
29. Panel of "The Future of AI Economy in MENA", Invited Panelist, Phi Research and Innovation Summit (PRIS'20), July 2020.
30. What it means to be a PhD Student. Invited Webinar, Phi Research and Innovation Summit (PRIS'20), July 2020.
31. ArCOV-19: The First Arabic COVID-19 Twitter Dataset with Propagation Networks. Voluntary Webinar, Apr 2020.
32. FakeDet: Research on Fake News Detection at Qatar University, Keynote Talk at "Bias, Misinformation, and Propaganda" Workshop, SocInfo 2019, Nov 2019.
33. What it means to be a PhD Student - Part II: Quality, Skills, and Support, "What it means to be a PhD Student" Workshop, Voluntary Workshop, Qatar University, Nov 2019.

34. What it means to be a PhD Student - Part I: Objectives, Mentality, and Quality, "What it means to be a PhD Student" Workshop, Voluntary Workshop, Qatar University, Nov 2019.
35. Research Issues You MUST Know! QU CSE Seminar, Invited Talk, Mar 2019.
36. Machine Learning 101 – Part II: Getting a bit "Deep"er! Workshop at QU-IEEE Student Branch, Invited Workshop, Qatar University, Feb 2019.
37. Machine Learning 101 – Part I: Hello "Machine Learning". Workshop at QU-IEEE Student Branch, Invited Workshop, Qatar University, Feb 2019.
38. Low-Cost Evaluation of Information Retrieval Systems. Invited Talk at Carnegie Mellon University-Qatar, Nov 2018.
39. When Rank Order isn't Enough: New Statistical-Significance-Aware Correlation Measures, Conference Talk, CIKM 2018, Turin, Italy, Oct 2018.
40. Supporting Arabic IR in the Era of Big Data: Resources, Tasks, and Venues, Invited Talk, HBKU, Qatar, Apr 2018.
41. Supporting Arabic IR in the Era of Big Data: Resources, Tasks, and Venues, Invited Talk, QU CSE Seminar, Mar 2018.
42. MapReduce 101. Guest Lecture in "CMPT 523 Distributed Systems and Cloud Computing" graduate class, QU, Oct 2017.
43. How to Give a Good (Research) Talk, Invited Talk, QU CSE Seminar, May 2017.
44. Big Data Analytics. Guest Lecture at "Special Topics in Data Science" graduate course, Qatar University, April 2017.
45. Lightweight, Conservative, yet Effective: Scalable Real-time Tweet Summarization, Conference Talk, TREC Conference, Gaithersburg, MD, USA, Nov 2016.
46. Real, Live, and Concise: Answering Open-Domain Questions with Word Embedding and Summarization, Conference Talk, TREC Conference, Gaithersburg, MD, USA, Nov 2016.
47. Research Issues You MUST Know! Invited Talk at "Cybersecurity Policy, Management and IT ethics" graduate course, Hamad Bin Khalifa University (HBKU), Oct 2016.
48. bigIR: When Big Data Meets Information Retrieval. Invited Talk at KINDI research center, Data Science group, QU, Oct 2016.
49. What Questions Do Journalists Ask on Twitter?, Workshop Talk, The Social Media in the Newsroom Workshop (SMNews'16) at International Conference on Web and Social Media (ICWSM), May 2016.
50. bigIR: When Big Data meets Information Retrieval. Invited Talk at Big Data Management workshop organized at QU, Apr 2016.
51. MapReduce 101. Invited Talk in "CMPT 523 Distributed Systems" graduate class, QU, Mar 2016.
52. Detecting Automatically-Generated Arabic Tweets, AIRS 2015, Dec 2015.
53. Researcher 101: Issues You Would Like to Know, QU CSE Seminar, Feb 2015.
54. QU@TREC-2014: Online Clustering for Tweet Timeline Generation, TREC Conference, Gaithersburg, MD, USA, Nov 2014.
55. Pairwise Document Similarity in Large Collections, Invited Talk in "CMPT 571 Advanced Algorithms" graduate class, QU CSE Seminar, Oct 2014.
56. Research Issues You Must Know, Voluntary Talk, Research 101 Workshop, QU Seminar, Oct 2014.
57. How to Read a Research Paper, Voluntary Talk, Research 101 Workshop, QU Seminar, Oct 2014.
58. Research? A Gentle Introduction, Voluntary Talk, Research 101 Workshop, QU Seminar, Oct 2014.
59. MapReduce 101. Invited Talk in "CMPT 507 Advanced Operating Systems" graduate class, QU, May 2014.
60. Researcher 101: Issues You Would Like to Know, Invited Talk, QU CSE Seminar, April 2014.
61. IR in a Nutshell: Applications, Research, and Challenges, Invited Talk, QU CSE Seminar, February 2014.
62. TREC-2013: QU Taking the "Fast Lane" to IR Research, Invited Talk, QU CSE Seminar, Oct 2013.
63. LaTeX: Writing Professional Scientific Documents, Voluntary Talk, OFID EduTech Day 2013, QU, June 2013.
64. How to Read a Research Paper, Invited Talk, QU CSE Seminar, May 2013.

65. IR in a Nutshell: Applications, Research, and Challenges, Invited Talk, QU CSE Seminar, February 2013.
66. On Large-Scale Retrieval Tasks with Ivory and MapReduce, Invited Talk, QU CSE Seminar, November 2012.
67. On Large-Scale Retrieval with Ivory, Invited Talk at CMU-Q, Oct 2012.
68. On Large-Scale Retrieval with Ivory, Microsoft Research at Cambridge, Invited Talk, October 2011.
69. Scalable Identity Resolution in Email Collections with MapReduce. Division Seminar, Invited Talk, CMSE Division, KAUST, November 2010.
70. Scalable Identity Resolution in Email Collections Using MapReduce. Guest Lecture in "Data-Intensive Information Processing Applications" Class, University of Maryland, College Park, MD, April 2010.
71. Identity Resolution in Email Collections. CLIP Lab Colloquium, Invited Talk, University of Maryland, College Park, MD, February 2009.
72. No, Not That PMI: Creating Search Technology for E-Discovery. Joint talk with Jason Baron, Douglas W. Oard, and Lidan Wang. iSchool Colloquium, University of Maryland, College Park, MD, October 2008.
73. Computing Pairwise Document Similarity in Large Collections: A MapReduce Perspective, Guest Lecture in "Introduction to Cloud Computing" Class, University of Maryland, College Park, MD, October 2008.
74. Resolving Personal Names in Email using Context Expansion, Conference Talk, ACL Conference, Columbus, OH, June 2008.
75. Pairwise Document Similarity in Large Collection with MapReduce, Conference Talk, ACL Conference, Columbus, OH, June 2008.
76. Using MapReduce for Scalable Coreference Resolution, Invited Talk at HLT COE at JHU, Baltimore, MD, June 2008.
77. Ivory, "Scaling Up Language Technologies", Invited Talk at the Mini-workshop, CMU, Pittsburgh, PA, May 2008.
78. The Enron and W3C Collections, Invited Talk at ICAIL DESI Workshop, Stanford, CA, June 2007.
79. Modeling Identity in Archival Collections of Email: A Preliminary Study, CEAS Conference, Mountain View, CA, July 2006.

TEACHING EXPERIENCE

Qatar University
as an Instructor

- CMPS 497/CMPE 471: Special Topics in Deep Learning (Fall 2024) [*Undergraduate*]
- CMPS 151: Programming Concepts (Spring 2024) [*Undergraduate*]
- CMPT 621: Information Retrieval (Fall 2023) [*Graduate, MSc & PhD*]
- CMPS 251: Object Oriented Programming (Fall 2023) [*Undergraduate*]
- CMPS 360: Data Science Fundamentals (Spring 2023) [*Undergraduate*]
- CMPS 151: Programming Concepts (Fall 2022) [*Undergraduate*]
- CMPS 460: Machine Learning (Spring 2022) [*Undergraduate*]
- CMPS 251: Object Oriented Programming (Fall 2021) [*Undergraduate*]
- CMPT 621: Information Retrieval (Spring 2021) [*Graduate, MSc & PhD*]
- CMPS 653: Big Data Analytics (Spring 2021) [*Graduate, MSc & PhD*]
- CMPS 403: Artificial Intelligence (Fall 2020) [*Undergraduate*]
- CMPS 205: Discrete Structures for Computing (Fall 2020) [*Undergraduate*]
- CMPS 360: Data Science Fundamentals (Spring 2020) [*Undergraduate*]
- CMPS 673: Machine Learning (Fall 2019) [*Graduate, MSc & PhD*]
- CMPS 403: Artificial Intelligence (Fall 2019) [*Undergraduate*]
- CMPT 621: Information Retrieval (Spring 2019) [*Graduate, MSc & PhD*]
- CENG 106: Computer Programming (Spring 2019) [*Undergraduate*]
- CMPS 673: Machine Learning (Fall 2018) [*Graduate, MSc & PhD*]

- CMPS 205: Discrete Structures for Computing (Fall 2018) [*Undergraduate*]
- CMPS 653: Big Data Analytics (Spring 2018) [*Graduate, MSc & PhD*]
- CMPS 205: Discrete Structures for Computing (Spring 2018) [*Undergraduate*]
- CMPS 205: Discrete Structures for Computing (Fall 2017) [*Undergraduate*]
- CMPS 497: Special Topics in Data Science (Spring 2017) [*Undergraduate*]
- CMPT 509: Seminar in Computing (Spring 2017) [*Graduate, MSc*]
- CMPT 521: Information Retrieval (Fall 2016) [*Graduate, MSc & PhD*]
- CMPS 251: Object Oriented Programming (Fall 2016) [*Undergraduate*]
- CMPS 200: Computer Ethics (Spring 2016) [*Undergraduate*]
- CMPS 251: Object Oriented Programming (Spring 2016) [*Undergraduate*]
- CMPS 653: Big Data Analytics (Fall 2015) [*Graduate, PhD*]
- CMPS 466: Information Retrieval (Fall 2015) [*Undergraduate*]
- CMPT 521: Information Retrieval (Spring 2015) [*Graduate, MSc*]
- CMPS 200: Computer Ethics (Spring 2015) [*Undergraduate*]
- CMPS 303: Data Structures (Fall 2014) [*Undergraduate*]
- CMPS 303: Data Structures (Spring 2014) [*Undergraduate*]
- GENG 107: Engineering Skills and Ethics (Spring 2014) [*Undergraduate*]
- CMPS 466: Information Retrieval (Fall 2013) [*Undergraduate*]
- CMPT 521: Information Retrieval (Spring 2013) [*Graduate, MSc*]
- GENG 106: Computer Programming (Spring 2012) [*Undergraduate*]
- GENG 106: Computer Programming (Fall 2012) [*Undergraduate*]

Online
as an Instructor
- Information Retrieval (in Arabic) (Summer 2021) [Open, Zoom, 2 weeks, 10 days, 10 lectures + labs]

King Abdullah University of Science and Technology (KAUST), SA [Spring 2011 – Present]
as an Instructor
- CS 238: Foundations of Information Retrieval (Summer 2011) [*Graduate*]
as a Co-Instructor
- CS 346: Large-Scale Computing (Spring 2011) [*Graduate*]

University of Maryland, College Park, US [Fall 2002-Spring 2004]
as a Teaching Assistant
- CMSC 351: Algorithms (Spring 2004) [*Undergraduate*]
- CMSC 250: Discrete Structures (Fall 2003) [*Undergraduate*]
- CMSC 106: Introduction to C Programming (Spring 2003) [*Undergraduate*]
- CMSC 106: Introduction to C Programming (Fall 2002) [*Undergraduate*]

University of Alexandria, Egypt [Spring 1998-Spring 2002]
as a Teaching Assistant
- Introduction to Computers [*Undergraduate*]
- Introduction to Programming [*Undergraduate*]
- Digital Design [*Undergraduate*]
- Data Structures [*Undergraduate*]
- Statistics [*Undergraduate*]
- Computer Networks and Communication [*Undergraduate*]
- Numerical Analysis [*Undergraduate*]
- Automatic Control [*Undergraduate*]

ONLINE TALKS, INTERVIEWS, COURSES & WORKSHOPS

Courses
- [YouTube] CMPS 497: Deep Learning (Fall 2024)
- [YouTube] CMPS 460: Machine Learning (Spring 2022)
- [YouTube] Information Retrieval (in Arabic) (Summer 2021)
- [YouTube] CMPT 621: Information Retrieval (Spring 2021)
- [YouTube] CMPS 653: Big Data Analytics (Spring 2021)
- [YouTube] CMPS 403: Artificial Intelligence (Fall 2020)
- [YouTube] CMPS 360: Data Science Fundamentals (Spring 2020)

Workshops
- [YouTube] What it means to be a PhD Student
- [YouTube] Machine Learning 101 (Spring 2019)

Interviews
- [YouTube] Interview at Qatar TV (October 2022)

Talks & Webinars
- [SoundCloud] AI and the Future of Humans, Podcast, Qatar University, Jan 2021.
- [YouTube] Other Webinars and Panel Discussions

OTHER WORK EXPERIENCE

Google, Mountain View, USA

Software Engineer Intern, Summer 2007

Starter project: Internal-tool adoption: implemented a process that collects usage information of the tool's users by building a histogram of incoming/outgoing interactions.

Main project: Suggesting "Canned-Responses" to Customers
- Designed and implemented an infrastructure for pipelining, building ground truth, and preprocessing.
- Proposed different approaches of providing autosuggestions of "canned responses".

KME Computools, Alexandria, Egypt

Software Engineer, Fall 1997-Fall 1999

Designed and implemented marketing and accounting applications using MFC, VC++ 5.0.

GRADUATE COURSE WORK

Design and Analysis of Algorithms, Advanced Computer Networks, Programming Language Technologies and Paradigms, Advanced Topics in Computer Systems, Advanced Algorithms, Neural Modeling, Natural Language Processing, Computer Graphics, Introduction to Artificial Intelligence, Advanced Introduction to Human-Computer Interaction, Cloud Computing: Web-Scale Information Processing Applications.

SOFTWARE RELEASES

Ivory, an open-source Hadoop toolkit for web-scale information retrieval research

available at http://ivory.cc
- release 0.4 (2010/10/24)
- release 0.3 (2010/07/19)
- release 0.2 (2009/11/18)
- release 0.1 (2009/07/18)

COMPUTER SKILLS

- *Programming Languages*: C, C++, VC++, Assembly, Pascal, BASIC, Java, and Python.
- *Operating Systems:* DOS, Microsoft Windows, Unix
- *Open Source:* Hadoop, Storm, Spark, Lucene, JavaMail, Lingpipe, JDOM, and WEKA
- *Database Systems:* MS FoxPro, and MS Access.

OTHER ACTIVITIES

- Google Ambassador at University of Maryland-College Park, 2007-2008
- Member, Syndicate of Egyptian Engineers, 1997-current
- Member, ACM SIGIR, 2006-current

ONLINE PROFILES

- Personal Website
- Google Scholar
- DBLP
- bigIR Group Website
- YouTube
- Twitter
- LinkedIn
- ORCID
- Scopus
- ResearchGate
- SemanticScholar
- ACM
- ACL Anthology