

Shady Elbassuoni

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Research Interests

Information Retrieval, Machine Learning, Crowdsourcing, Digital Humanities, Digital Health

Professional Experience

- **American University of Beirut, Beirut, Lebanon** 01/2013 – present
Assistant Professor
- **Qatar Computing Research Institute, Doha, Qatar** 05/2012 – 12/2012
Postdoctoral Researcher
- **Max-Planck Institute for Informatics, Saarbrücken, Germany** 02/2012 – 05/2012
Postdoctoral Researcher
- **Yahoo! Research Lab, Barcelona, Spain** 07/2010 – 10/2010
Summer Intern
- **Saarland university, Saarbrücken, Germany** 10/2005 – 04/2010
Teaching assistant
- **German University in Cairo (GUC), Cairo, Egypt** 03/2005 – 10/2005
Teaching assistant
- **Bibliotheca Alexandrina (BA), Alexandria, Egypt** 10/2003 – 03/2005
Software Engineer

Education

- **PhD in Computer Science, Max-Planck Institute für Informatik, Germany** 07/2007 – 2/2012
Thesis: Effective Searching of RDF Knowledge Bases
Grade: Summa Cum Laude
- **M.S. in Computer Science, Saarland University, Germany** 10/2005 – 07/2007
Thesis: Adaptive Personalization of Web Search
Grade: A (1.1)
- **B.S. in Computer Science, Alexandria University, Egypt** 10/1998 – 07/2003
Graduation Project: Efficient Construction of Voronoi Diagrams using Jump Lists
Grade: Very Good with Honor

Further Qualifications and Awards

- Best Paper Award Nominee at the 9th International Conference on Knowledge Discovery and Information Retrieval (KDIR 2017)
- Best Paper Award Nominee at the 12th International Conference on Web Information Systems and Technologies (WEBIST 2016)
- Best Reviewer Award at the 8th Workshop for Ph.D. Students at CIKM 2015 (PIKM 2015)

- Best Paper Award at the 10th International Conference on Information Systems for Crisis Response and Management (ISCRAM 2013)
- Honorable Mention of Paper at the 22nd ACM International Conference on Information and Knowledge Management (CIKM 2013)
- International Max-Planck Research School Scholarship
- Microsoft Research Ph.D. Scholarship
- Saarland University Honor's Degree for Master of Science
- Alexandria University Honor's Degree for Bachelor of Science

Awarded Grants

- **Discrimination-aware Task Assignment in Crowdsourcing**
Awarded by the American University of Beirut Research Board (URB) in 2018
- **School and Community Drivers of Child Diets in Arab Cities**
Awarded by the International Development Research Center (IDRC) in 2018
- **Arabic Named Entity Recognition via Deep Co-learning**
Awarded by the American University of Beirut Research Board (URB) in 2017
- **Deep Learning for Arabic Information Retrieval**
Awarded by the American University of Beirut Research Board (URB) in 2016
- **Crowdsourcing Reliable Ratings for Underexposed Items**
Awarded by the American University of Beirut Research Board (URB) in 2015
- **Top-k Query Processing in Keyword-augmented RDF Knowledge Bases**
Awarded by the American University of Beirut Research Board (URB) in 2014

Service Activities

- PC member for COLING 2018, IJCAI-ECAI 2018, NAACL HLT 2018, AAAI 2018, BDA 2017, WANLP 2017, AAAI 2017, SITIS 2016, ISCRAM MED 2016, IJCAI 2016, AAAI 2016, BDA 2016, PIKM 2015, BDA 2015, ISCRAM MED 2015, BDA 2014, ISCRAM MED 2014, and DSoNets 2014
- Reviewer for Journal on Data Semantics, PVLDB 2018, Ad Hoc Networks Journal, The Information Systems Journal, IEEE Transactions on Knowledge and Data Engineering Journal, the Journal of Web Semantics, the journal on Web Semantics: Science, Services and Agents on the World Wide Web, the Transactions on Knowledge and Data Engineering Journal, and the Data and Knowledge Engineering Journal

Publications

- **Arabic Named Entity Recognition via Deep Co-learning**
Chadi Helwe, Shady Elbassuoni
In the Artificial Intelligence Review Journal (AI Review 2019)
- **FaiRank: An Interactive System to Explore Fairness of Ranking in Online Job Marketplaces**
Ahmad Ghizzawi, Julien Marinescu, Shady Elbassuoni, Sihem Amer-Yahia, Gilles Bisson
To appear in the proceedings of the 22nd International Conference on Extending Database Technology (EDBT 2019)
- **Exploring Fairness of Ranking in Online Job Marketplaces**
Shady Elbassuoni, Sihem Amer-Yahia, Ahmad Ghizzawi, Christine El Atie
To appear in the proceedings of the 22nd International Conference on Extending Database Technology (EDBT 2019)

- **GroupTravel: Customizing Travel Packages for Groups**
 Sihem Amer-Yahia, Shady Elbassuoni, Behrooz Omidvar-Tehrani, Ria Mae Borromeo, Mehrdad Farokhnejad
 To appear in the proceedings of the 22nd International Conference on Extending Database Technology (EDBT 2019)
- **Prototyping Across the Disciplines**
 Randa El Khatib, David Joseph Wrisley, Shady Elbassuoni, Mohamad Jaber, Julia El Zini
 In the Digital Studies/Le champ numérique, 2019
- **Biological Knowledge Graph Construction, Search, and Navigation**
 Chandana Tennakoon, Nazar Zaki, Hiba Arnaout, Shady Elbassuoni, Wassim El-Hajj, Alanoud Al Jaberi
 Book Chapter in Leveraging Biomedical and Healthcare Data, 2019
- **Effective Searching of RDF Knowledge Graphs**
 Hiba Arnaout and Shady Elbassuoni
 In the Journal of Web Semantics (JWS 2018)
- **Website Navigation Behavior Analysis for Bot Detection**
 Rabih Haidar and Shady Elbassuoni
 In the proceedings of the 4th IEEE Conference on Data Science and Advanced Analytics (DSAA 2017)
- **Customizing Travel Packages with Interactive Composite Items**
 Manish Singh, Ria Mae Borromeo, Anas Hosami, Sihem Amer-Yahia and Shady Elbassuoni
 In the proceedings of the 4th IEEE Conference on Data Science and Advanced Analytics (DSAA 2017)
- **Top-k Keyword Search over Wikipedia-based RDF Knowledge Graphs**
 Hrag Yoghoudjian, Shady Elbassuoni, Mohamad Jaber and Hiba Arnaout
 In the proceedings of the 9th International Conference on Knowledge Discovery and Information Retrieval (KDIR 2017)
- **CCS Coding of Discharge Diagnoses via Deep Neural Networks**
 Chadi Helwe, Shady Elbassuoni, Mirabelle Geha, Eveline Hitti and Carla Makhlouf Obermeyer
 In the proceedings of the 7th International Conference on Digital Health (DH 2017)
- **Methodical Evaluation of Arabic Word Embeddings**
 Mohamed Elrazzaz, Chadi Helwe, Shady Elbassuoni, Khaled Shaban
 In the proceedings of the 55th Annual Meeting of the Association for Computational Linguistics (ACL 2017)
- **CAT: Credibility Analysis of Arabic Content on Twitter**
 Rim EL Ballouli, Wassim El-Hajj, Ahmad Ghandour, Shady Elbassuoni, Hazem Hajj, Khaled Shaban
 In the proceedings of the Third Arabic Natural Language Processing Workshop (WANLP 2017)
- **Calories Prediction from Food Images**
 Manal Chokr, Shady Elbassuoni
 In the proceedings of the 29th AAAI Innovative Applications of Artificial Intelligence Conference (IAAI 2017)
- **TopoText: Interactive Digital Mapping of Literary Text**
 Randa El Khatib, Julia El Zini, David Wrisley, Mohamad Jaber, Shady Elbassuoni
 To appear as a demo in the proceedings of the 26th International Conference on Computational Linguistics (COLING 2016)
- **Result Diversity for RDF Search**
 Hiba Arnaout, Shady Elbassuoni
 In the proceedings of the 8th International Conference on Knowledge Discovery and Information Retrieval (KDIR 2016)

- **The Potential of Digital Technology to Improve Health of Populations Affected by Humanitarian Crises: Recent Innovations and Current Gaps**
 Sandra Mesmar, Reem Talhouk, Chaza Akik, Hala Ghattas, Sarah Armoush, Madeline Balaam, Shady Elbassuoni, Imad El Hajj, Aline Germani, Joumana Kalot, Patrick Olivier
 In the Journal of Public Health Policy (JPHP)
- **Arabic Corpora for Credibility Analysis**
 Ayman Al Zaatari, Reem El Ballouli, Shady ELbassouni, Wassim El-Hajj, Hazem Hajj, Khaled Shaban, Nizar Habash
 In the proceedings of the 10th edition of the Language Resources and Evaluation Conference (LREC 2016)
- **Crowdsourcing Reliable Ratings for Underexposed Items**
 Beatrice Valeri, Shady Elbassuoni, Sihem Amer-Yahia
 In the proceedings of the 12th International Conference on Web Information Systems and Technologies (WEBIST 2016)
- **LyfeLine: Exploring Wikipedia Entities in Space and Time**
 Ahmed Hamandi, Ryan Saddi, Taha Shanouha, Shady Elbassuoni
 Proceedings of the 6th International Conference of Digital Archives and Digital Humanities (DADH 2015)
- **Acquiring Reliable Ratings from the Crowd**
 Beatrice Valeri, Shady Elbassuoni, Sihem Amer-Yahia
 Proceedings of the 3rd AAAI Conference on Human Computation and Crowdsourcing (HCOMP 2015)
- **Emotion Recognition from Text Based on Automatically Generated Rules**
 Shadi Shaheen, Wassim El-Hajj, Hazem Hajj, Shady Elbassuoni
 Proceedings of the 4th edition of Sentiment Elicitation from Natural Text for Information Retrieval and Extraction (SENTIRE 2014)
- **Robust Question Answering over the Web of Linked Data**
 Mohamed Yahya, Klaus Berberich, Shady Elbassuoni, Gerhard Weikum
 Proceedings of the 22nd Conference on Information and Knowledge Management (CIKM 2013)
- **Practical Extraction of Disaster-Relevant Information from Social Media**
 Muhammad Imran, Shady Elbassuoni, Carlos Castillo, Fernando Diaz, Patrick Meier
 Proceedings of the 2nd International Workshop on Social Web for Disaster Management (SWDM 2013)
- **Extracting Information Nuggets from Disaster-Related Messages in Social Media**
 Muhammad Imran, Shady Elbassuoni, Carlos Castillo, Fernando Diaz, Patrick Meier
 Proceedings of the 10th International Conference on Information Systems for Crisis Response and Management Conference (ISCRAM 2013)
- **RDF Xpress: A Flexible Expressive RDF Search Engine**
 Shady Elbassuoni, Maya Ramanath, Gerhard Weikum
 Proceedings of the 35th SIGIR Conference (SIGIR 2012)
- **Natural Language Questions for the Web of Data**
 Mohamed Yahya, Klaus Berberich Shady Elbassuoni, Maya Ramanath Volker Tresp, Gerhard Weikum
 Proceedings of the 2012 Conference on Empirical Methods in Natural Language Processing and Natural Language Learning (EMNLP-CoNLL'12)
- **Deep Answers for Naturally Asked Questions on the Web of Data**
 Mohamed Yahya, Klaus Berberich Shady Elbassuoni, Maya Ramanath Volker Tresp, Gerhard Weikum
 Proceedings of the 21st World Wide Web Conference (WWW 2012)
- **S3K: Seeking Statement-Supporting top-K Witnesses**
 Steffen Metzger, Shady Elbassuoni, Katja Hose, Ralf Schenkel
 Proceedings of the 20th Conference on Information and Knowledge Management (CIKM 2011)

- **Keyword Search over RDF Data**
Shady Elbassuoni, Roi Blanco
Proceedings of the 20th Conference on Information and Knowledge Management (CIKM 2011)
- **Query Relaxation for Entity-Relationship Search**
Shady Elbassuoni, Maya Ramanath, Gerhard Weikum
Proceedings of the 8th Extended Semantic Web Conference (ESWC 2011)
- **CATE: Context-Aware Timeline for Entity Illustration**
Tran Anh Tuan, Shady Elbassuoni, Nicoleta Preda, Gerhard Weikum
Proceedings of the 20th International World Wide Web Conference (WWW 2011)
- **ROXXI: Reviving Witness Documents to Explore Extracted Information**
Shady Elbassuoni, Katja Hose, Steffen Metzger, Ralf Schenkel
Proceedings of the 36th International Conference on Very Large Data Bases (PVLDB 2010)
- **Searching RDF Graphs with SPARQL and Keywords**
Shady Elbassuoni, Maya Ramanath, Ralf Schenkel, Gerhard Weikum
Article in the IEEE Data Engineering Bulletin, Vol. 33 No. 1, March 2010
- **Language-model-based Ranking for Queries on RDF-Graphs**
Shady Elbassuoni, Maya Ramanath, Ralf Schenkel, Marcin Sydow, Gerhard Weikum
Proceedings of the ACM 18th Conference on Information and Knowledge Management (CIKM 2009)
- **MING: Mining Informative Entity-relationship Subgraphs**
Gjergji Kasneci, Shady Elbassuoni, Gerhard Weikum
Proceedings of the ACM 18th Conference on Information and Knowledge Management (CIKM 2009)
- **Language-Model-Based Ranking in Entity-Relation Graphs**
Shady Elbassuoni, Maya Ramanath, Gerhard Weikum
Proceedings of the 1st International Workshop on Keyword Search on Structured Data (KEYS 2009)
- **Matching Task Profiles and User Needs in Personalized Web Search**
Julia Luxemburger, Shady Elbassuoni, Gerhard Weikum
Proceedings of the ACM 17th Conference on Information and Knowledge Management (CIKM 2008)
- **Personalizing the Search for Knowledge**
Minko Dudev, Shady Elbassuoni, Julia Luxemburger, Maya Ramanath, Gerhard Weikum
Proceedings of the 2nd International Workshop on Personalized Access, Profile Management, and Context Awareness: Databases (PersDB 2008)
- **Task Aware Search Personalization**
Julia Luxemburger, Shady Elbassuoni, Gerhard Weikum
Proceedings of the 31st Annual International ACM SIGIR 2008 Conference (SIGIR 2008)
- **NAGA: Harvesting, Searching and Ranking Knowledge**
Gjergji Kasneci, Fabian Suchanek, Georgiana Ifrim, Shady Elbasuoni, Maya Ramanath, Gerhard Weikum
Proceedings of the ACM International Conference on Management Of Data (SIGMOD 2008)
- **Adaptive Personalization of Web Search**
Shady Elbassuoni, Julia Luxemburger, Gerhard Weikum
Proceedings of the 1st Workshop on Web Information Seeking and Interaction (WISI 2007)