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EDUCATION

- **Ph.D. Computational Linguistics** **Aug '03**
Linguistics Department
University of Maryland Institute for Advanced Computer Studies (UMIACS)
University of Maryland, College Park, USA
Thesis: Word Sense Disambiguation within a Multilingual Framework
Advisor: Philip Resnik
- **M.Sc. Computer Science (Machine Learning and Artificial Intelligence)** **Jun '97**
The George Washington University, USA
Advisor: Peter Bock
- **B.Sc. Computer Science & Software Engineering** **Jun '92**
The American University in Cairo, Egypt
- **B.Sc. Tourist Guidance (Egyptology & Archaeology)** **Jun '90**
Faculty of Tourism and Hotel Management, Helwan University, Egypt

PROFESSIONAL EXPERIENCE

- **Research Scientist** **Feb '09 – Dec '12**
*Center for Computational Learning Systems (CCLS), **Columbia University**, NY, USA*
- **Adjunct Associate Professor** **Feb '09 – Dec '12**
*Computer Science Department, **Columbia University**, NY, USA*
- **Associate Research Scientist** **Jul '05 – Jan '09**
*Center for Computational Learning Systems (CCLS), **Columbia University**, NY, USA*
- **Postdoctoral Research Scientist** **Feb '05 – Jun '05**
*Center for Computational Learning Systems (CCLS), **Columbia University**, NY, USA*
- **Postdoctoral Research Scholar/Scientist** **Jan '04 – Jan '05**
*Linguistics Department and NLP Group, **Stanford University**, CA, USA*
Mentor: Daniel Jurafsky (MacArthur Award Fellow, 2002-2003)
- **Research Associate** **Jul '03 – Dec '03**
*Center for Spoken Language Research, **University of Colorado Boulder**, CO, USA*
Mentor: Daniel Jurafsky (MacArthur Award Fellow, 2002-2003)
- **Graduate Research Assistant** **Jul '97 – Jun '03**
*Institute for Advanced Computer Studies (UMIACS), **University of Maryland***

- College Park, MD, USA**
Advisor: Philip Resnik
- **Visiting Researcher** **Sep '02 – Dec '02**
*Laboratoire Perception Systemes Information, **Université de Rouen**, France*
Visiting with Thierry Paquet
 - **Research Assistant** **May '98 – Aug '98**
Thomson Publishing NLP Labs, Rockville, MD, USA
Mentor: Stephen Finch
 - **Systems Analyst** **Mar '97 – Aug '97**
Solutions Consultants International, Arlington, VA, USA
 - **Graduate Teaching Instructor** **Fall '95 – Spr '97**
Computer Science Department, The George Washington University, Washington, DC, USA
 - **Graduate Teaching Assistant** **Fall '93 – Spr '95**
Computer Science Department, The American University in Cairo, Egypt
 - **Software Engineer** **Apr '93 – Feb '95**
Regional Inform. Tech. Software Engineering Center (RITSEC), UNDP, Cairo, Egypt
 - **Licensed Tourist Guide** **Jun '91 – Jun '95**
Free Lance, Cairo, Egypt
 - **English News Broadcast Anchor** **Sep '92 – Feb '93**
Saudi Arabia National Radio, Riyadh, Saudi Arabia

BOARD MEMBERSHIP

- **Springer Publisher: NLP Briefs** **Jul '11 – present**
Editorial Board Member
 Berlin, Germany
- **(ISO) Semantic Annotation Framework –Named Entities** **Apr '11 –present**
Advisory Board Member
 International Standards Organization
- **Journal of Language Resources and Evaluation** **Oct '11--present**
Editorial Board Member
 Springer Publications
- **Qordoba Inc.** **Sep '11 – Sep'13**
Advisory Board Member & Board of Directors Member
 Dubai, UAE
- **Cairo Microsoft Research Innovation Center (CMIC)** **May '10 –Jun '11**
Advisory Board Member
One of 6 Microsoft Research Innovation Centers World Wide
 Cairo, Egypt
- **Human Language Technology Center of Excellence, JHU** **Jun '09 –Dec '12**
Board Member
 SCALE
 Johns Hopkins University, MD, USA

ELECTED POSITIONS

- **President of ACL Special Interest Group on the Lexicon** **Oct '13 –Sep '16**

- (SIGLEX)
- **NAACL Executive Board Member** Jan '12 –Aug '14
- **Columbia University Senator** Aug '11 –Dec '12
One of 6 elected members campus wide representing >3000 Research Officers in University Senate
- **Secretary of ACL Special Interest Group on the Lexicon (SIGLEX)** Jun '10 –Sep '13
- **President of ACL Special Interest Group on Semitic Languages (SIG Semitic)** Nov '11 –present
- **Secretary of ACL Special Interest Group on Semitic Language Processing (SIG Semitic)** Jun '09 – Oct '10
- **Executive Board Member of ACL SIGLEX** Oct '07 – Jul '10

ACADEMIC INITIATIVES

- ***SEM: First Comprehensive Semantics Conference** Jul '11
*Founding Member (with Eneko Agirre, Johan Bos)
Creating a consolidated Unified Top Tier Semantics Conference (current acceptance rate 31% for *SEM 1 and *SEM 2, on par with NAACL and EACL)*
- **CALIMAT: Columbia Arabic Language Institute for Modeling and Technology** Jul '07
*Founding Member (with Hatim Diab, Nizar Habash, Owen Rambow, David Waltz)
Seeking Joint Institutional Collaborations with the Arab World
Columbia University, NY, USA*
- **CADIM Group** Jun '05
*Founding Member (with Nizar Habash and Owen Rambow)
Columbia Arabic Dialects Modeling Group
Center for Computational Learning Systems (CCLS), Columbia University, NY, USA
<http://www.ccls.columbia.edu/oldweb/cadim/>*

KEYNOTE SPEECHES

1. **Joint Symposium on Semantic Processing, Organized by the European Union funded projects EXCITEMENT and B-CROCE hosted by FBKI, Trento Italy, Nov 20th-22nd, 2013.**
2. **27th Arabic Linguistic Symposium (ALS 2013), Indiana, USA, Feb 28th- Mar 2nd, 2013**
3. **'11th International Language Engineering Conference, Cairo, Egypt, 14 Dec '11.**
4. **Plenary talk: A Unified Semantic Perspective, the *SEM Initiative. IEEE 5th International Conference on Semantic Computing (ICSC), Palo Alto, CA, USA, Sep '11.**
5. **IEEE Information and Communication Technologies International Symposium (ICTIS'07), Fez, Morocco. Apr '07.**
6. **6th Conference on Language Engineering, Cairo, Egypt. Nov '06.**
7. **EACL workshop on Cross Language Knowledge Induction, Trento, Italy. Apr '06.**
8. **Arabic Linguistics Society (ALS) Conference, Kalamazoo, MI, USA, Mar '06.**

2005

9. **MEANING Workshop, European Union & IRST**, Trento, Italy. Feb '05.

INVITED TALKS/PARTICIPATION/PANELIST

2013

1. Invited Talk, Social Media Analysis Session, **INFORMS** Conference, October 6-9, Minneapolis, MN, USA, October 7th 2013.
2. Invited Talk, **MITRE Corporation**, Tyson's Corner, VA, USA, March 21st 2013.
3. Invited Talk, Computer Science Symposium, **Simon Fraser University**, British Columbia, Vancouver, BC, Canada, March 11th 2013.
4. Invited Talk, Computer Science Symposium, **CLIP Lab, UMIACS, University of Maryland College Park, Maryland, USA**, Feb 13th 2013.

2012

5. Invited Panelist on Computational lexical resources and interoperability, **LREC 2012**, Istanbul Turkey
6. Invited Arbitrator/Referee (One of 6 Arab Expat Scientists to decide on Best Scientific Research in Qatar), **Qatar Foundation, Arab Expat Society & Scientific Research Forum**, Qatar, Oct' 19th -23rd, 2012.

2011

7. Invited Participant (One of 50 Arab Expat Scientists to discuss and advise on future of Scientific Research Strategy in Qatar), **Qatar Foundation, Arab Expat Society & Scientific Research Forum**, 19 -23rd Nov '11.
8. Invited Panelist, Future of Semantics in Machine Translation, **DARPA BOLT PI Kick-off Meeting**, Tampa, Florida, USA, Oct '11.
9. Invited Talk (to the President & Deans), **King Abdullah University for Science and Technology (KAUST)**, Thuwwal, Saudi Arabia, 13 Sep '11.
10. Invited Talk (Mathematical & Computer Sciences School), **King Abdullah University for Science and Technology (KAUST)**, Thuwwal, Saudi Arabia, 13 Sep '11.
11. Invited Participant in **NSF-sponsored Workshop on Collaborative Resource Development and Delivery**. Organized by Nancy Ide (Vassar College), Held in New York, NY, USA, 7-8 Oct '11.
12. Invited Participant in **NSF-funded Adjectives Workshop**, Organized by Christiane Fellbaum (Princeton University), Held in Arlington, VA, USA, 29-30 Sep '11.
13. Invited Panelist at **EMNLP 2011 Workshop on Geometrical Methods in Semantics (GEMS)**, Edinburgh, UK, Jul '11.
14. Invited Talk, **Distinguished Lecture Symposium Series, University of Washington**, Seattle, WA, USA, 30 Apr '11.
15. Invited Talk, **Microsoft Research**, Redmond, WA, USA, 21 Apr '11.
16. Invited Participant in **NSF-funded SILT Workshop Interoperable Semantic Annotation**. Organized by Nancy Ide (Vassar College) and James Pustejovsky, (Brandeis University), Held in Waltham, MA, USA, 11-14 Apr '11.
17. Invited Participant in **QCRI Social Networks Roundtable**, Qatar Computing Research Institute, Qatar Foundation, Doha, Qatar, 3-4 Apr '11.
18. Invited Participant in **QCRI Arabic Language Technologies Roundtable**, Qatar Computing Research Institute, Qatar Foundation, Doha, Qatar, '16-17 Jan '11.

2010

19. Invited Talk, **Computer Science Department, University of Alabama**, Birmingham, AL, USA, Dec '10.
20. Invited Panelist at **COLING 2010 Workshop on Multiword Expressions (MWE**

2010), Beijing, China, Aug '10.

21. Invited Panelist at **ACL 2010 Workshop on Semantic Evaluations (SEMEVAL 2010)**, Upsala, Sweden, 17 Jul '10.
22. Invited Talk and Participant in **Workshop on the Future of Arabic Language Development**, organized by the **UAE Crown Prince Court for Strategic Planning**, Abu Dhabi, UAE, Jul '10.
23. Invited Talk, **IBM TJ Watson**, Hawthorne, NY, USA, Jun '10.
24. Invited Talk, **School of Computing and Mathematical Sciences, King Abdullah University for Science and Technology, KAUST**, Thuwwal, Saudi Arabia, May '10.
25. Invited Talk, **Computer Science Department, University of Trento**, Trento, Italy, Apr '10.

2009

26. Invited Panelist, **NAACL Workshop on Semantic Evaluations (SEMEVAL '09)**, Boulder, CO, USA, Jun '09.
27. Invited Talk, **Departamento de Sistemas Informaticos y Computacion, Universidad Politecnica de Valencia**, Valencia, Spain, May '09.
28. Invited Talk, **IRST & Computer Science Department, University of Trento**, Trento, Italy, Apr '09.

2008

29. Invited Talk, **Department of Informatics, University of Sussex**, Brighton, England, Aug '08.
30. Invited Talk, **Computer Science Department, Faculty of Science, University of Mohamed V**, Rabat, Morocco, May '08.
31. Invited Talk, **Departamento de Sistemas Informaticos y Computacion, Universidad Politecnica de Valencia**, Valencia, Spain, May '08.
32. Invited Talk, **Linguistics Department, Georgetown University**, Washington, DC, USA, Apr '08.

2006

33. Invited Talk, **Cairo Microsoft Innovation Center (CMIC), MSR, Smart Village**, Cairo Egypt, Dec '06.
34. Invited Talk, **Computer Science Department, University of North Texas**, Dallas, TX, USA, Sep '06.

2005

35. Invited Talk, (with Nizar Habash and Owen Rambow), **Linguistic Data Consortium, University of Pennsylvania**, Philadelphia, PA, USA, Dec '05.
36. Invited Talk, **Computer Science Department, New York University**, New York, NY, USA, Oct '05.
37. Invited Talk, **Computer Science Department, Columbia University**, New York, NY, USA, Mar '05.
38. Invited Talk, **Linguistics Department, Ohio State University**, Columbus, OH, USA, Feb '05.
39. Invited Talk, **Linguistics Department, University of Texas Austin**, Austin, TX, USA, Feb '05.
40. Invited Talk, **Yahoo Research Labs, Overture**, Pasadena, CA, USA, Jan '05.

2004

41. Invited Talk, **Language Computer Corporation (LCC)**, Dallas, TX, USA, Dec '04.
42. Invited Talk, **Microsoft Research (MSR), Natural Language Group**, Redmond, WA, USA, Dec '04.
43. Invited Talk, **Department of Informatics, University of Edinburgh**, Edinburgh, Scotland, Aug '04.

44. Invited Talk, **Linguistic Data Consortium, University of Pennsylvania**, Philadelphia, PA, USA, May '04.
45. Invited Talk, **IBM T. J. Watson Research Center**, Hawthorne, NY, USA, May '04. **2003**
46. Invited Talk, **Linguistics Dept. & Institute for Cognitive Science, University of Colorado, Boulder**, Boulder, CO, USA, Nov '03. **2002**
47. Invited Talk, **Laboratoire Perception, Systèmes, Information (PSI), Université de Rouen**, Rouen, France, Nov '02.
48. Invited Talk, **NLP Lab, Information Sciences Institute (ISI), University of Southern California**, Marina Del Rey, CA, USA, Nov '02.

PROFESSIONAL CONSULTING

- **Qordoba Inc.** **Sep '11 – Sep '13**
Providing Expert Assessment of English Arabic MT and NLP Technologies
 Contact: May Habib
 Dubai, UAE
- **University of Colorado, Boulder** **Spr '10 – Dec '12**
Arabic Propbank, Expert advice predicate argument structures for Arabic
 Contact: Martha Palmer
 Boulder, CO, USA
- **Cairo Microsoft Research Innovation Center (CMIC)** **Oct '07 – Jun '08**
Expert advice on Natural Language Processing and Arabic Language Technologies
 Contact: Tarek AlAbbadly
 Cairo, Egypt
- **Egyptian Center of Excellence for Data Mining** **Apr '06 – Dec '07**
Expert advice on Statistical Natural Language Processing
 Contact: Aly Fahmy, Nayer Wanas
 Cairo, Egypt
- **Princeton University** **Sep '05 – Dec '07**
Arabic WordNet Project, Expert advice on Arabic Lexical Semantics
 Contact: Christiane Fellbaum
 Princeton, NJ, USA
- **Meaningful Machines Inc.** **Feb '06 – Jun '06**
Providing Expert advice on Arabic Lexical Semantics for Machine Translation
 Contact: Jaime Carbonell
 New York, NY, USA

RESEARCH EXPERIENCE

Current Research Grants

1. **[Qatar National Research Fund (QNRF)]** *Optdiac: An optimal Diacritization Scheme for Arabic*, (Lead PI, collaborative research with Carnegie Mellon University Qatar Co-PI Professor Kemal Oflazer). Total \$1.1M (GWU portion \$367K), duration 3 yrs., Sep '13 – Aug '16.
2. **[DARPA-DEFT]** *DRATS: Detecting Relations and Anomalies in Text and Speech*, (PI; subaward from Columbia University as Prime institution). Total \$844,107, duration 4.5 yrs., May '13 – May '17.

3. **[NSF-Large CRI]** *Creating Resources for Multilingual Linguistic Code Switching*, (PI; with Julia Hirschberg, collaborative with Tamar Solorio, UAB, Columbia Prime institution). Total \$400K, duration 3 yrs., Apr '13 –Mar '16.
4. **[DARPA-BOLT]** Subcontract to GWU from BBN – *Dialectal Tool and Resource Creation* (PI; with at Columbia University Nizar Habash and Owen Rambow). Total/yr. \$1.1M, duration 5 yrs., Oct '11 –Dec '15.
5. **[Google Faculty Research Awards]** *Nuanced Sentiment and Perspective Analysis for Arabic Social Media Text* (PI). Total/yr. \$71,339K, duration 1 yr., Sep '13 –Aug '13.

Past Research Grants

1. **[TSWG-DOD/ODNI-NADIA]** *Natural Language Processing for Dialectal Arabic-Industrialization and Insertion* (PI; with Owen Rambow and Nizar Habash). Total \$898K, duration 1.5 yrs., Apr '12 –Jun '13.
2. **[DARPA-MADCAT]** Subcontract to BBN–*Multilingual Automatic Document Classification Analysis and Translation for Arabic OCR* (Co-PI; with Nizar Habash). Total/yr. (Apr '08-Mar '12, \$750K) \$153K, Duration 5 yrs., Apr '08 –Aug '13.
3. **[DARPA-BOLT]** Subcontract to SRI–*Semantic Machine Translation for Arabic Dialects* (CCLS-PI; with Kathy Mckeown, Michael Collins, Julia Hirschberg). Total/yr. \$1.7M, duration 1 yrs., Nov '11 –Aug '13.
4. **[DARPA-BOLT]** Subcontract to LDC–*Resource Guideline Creation for Arabic Dialects* (Co-PI; with Nizar Habash and Owen Rambow). Total/yr. \$100K, duration 5 yrs., Nov '11 –Dec '12.
5. **[DARPA-GALE]** Subcontract to IBM–*Pilot Unified Framework for Semantic Textual Similarity* (PI). Total \$25K, duration 8 months, Sep '11 –Apr '12.
6. **[NSA-TTO8]** Subcontract to JHU-COE–*Power and Modality Analysis and Prediction in Social Communication* (Co-PI; with Owen Rambow). Total/yr. \$115K, duration 3 yrs., Sep '09 –Dec '12.
7. **[IARPA-SCIL]** *Power Rifts and Shifts in Social Communication* (Co-PI; with Kathy McKeown and Owen Rambow). Total/yr. \$642K, duration 5 yrs., Aug '09 –Oct '12.
8. **[NSF-CRI Planning]** *Linguistic Code Switching Pilot Annotation* (PI; with Julia Hirschberg). Total/yr. \$78K, duration 1 yr., Mar '10–Mar '11.
9. **[TSWG-DOD/ODNI-COLABA]** Subcontract to ACXIAM–*Cross language blog alerts-Arabic Blog Processing* (PI; with Nizar Habash and Owen Rambow). Total \$780K+\$50K (CAT/CAIM support), duration 3 yrs., Aug '09–Apr '11.
10. **[DARPA-GALE]** Subcontract to IBM-Rosetta–*Arabic to English Machine Translation* (Co-PI; with Owen Rambow and Nizar Habash). Total/yr. \$390K, duration 3 yrs., May '08–Apr '11.
11. **[NSA-TTO8]** Subcontract to JHU-COE–*Committed Belief and Modality in Multigenres Text* (Co-PI; with Owen Rambow). Total/yr. \$620K, duration 3 yrs., Aug '07 –Aug '10.
12. **[DARPA-GALE]** Subcontract to SRI-Nightingale–*Arabic to English Machine Translation* (Co-PI; with Owen Rambow and Nizar Habash). Total/yr. ~\$500K, duration 3 yrs., Sep '05–Apr '08.
13. **[NSF-SGER]** *Automatic Processing of Natural Language Code-Switching* (PI; with Owen Rambow). Total \$41K, duration 1 yr., Sep '07–Aug '08.
14. **[NSF-SGER]** *Inducing Multiword Expressions from Comparable Corpora* (PI). Total \$19K, duration 6 mo., Sep '06–Feb '07.
15. **[NSF-JHU Summer Workshop]** *Arabic Dialect Parsing* (Co-PI). Total \$15K,

duration 1.5 mo., Jun '05–Jul '05.

16. [DARPA–GALE] Subcontract to University of Colorado–OntoNotes. Building an Arabic PropBank. (PI). Total \$15K, duration 6 mo., Sep '05–Feb '06.

RESEARCH EDUCATION AND TEACHING EXPERIENCE

Semester Long Classes

1. **Data Structures and Algorithms I in JAVA (CSCI 1112)** Fall '13
Department of Computer Science
The George Washington University
2. **Selected Topics: Introduction to Statistical Natural Language Processing (CSCI 3907/6907)** Spr '13
Department of Computer Science
The George Washington University
3. **Projects in Computer Science** Fall '07 – Fall '12
Computer Science Dept.
Columbia University
4. **Arabic Computational Linguistics** Fall '09
Linguistics/Computer Science Dept.
Georgetown University
5. **C as a Second Language** Fall '95 – Spr '97
Department of Computer Science and Electrical Engineering
George Washington University
6. **3 Courses** Fall '91 – Spr '95
 - **Theory of Computing**
 - **Algorithms and Formal Languages**
 - **Artificial Intelligence***Computer Science Dept.*
The American University in Cairo

Tutorials

1. **ARABIC DIALECT PROCESSING (3-5 hours)**
(Co-Taught with Nizar Habash)
 - NAACL 2012** Jun '12
Montreal, Canada
 - Georgetown University Round Table (GURT)** Apr '10
Washington DC, USA
 - 2nd International Conference on Arabic language Resources and Tools (MEDAR)** Apr '09
Cairo, Egypt
 - Language Resources & Evaluation Conference (LREC)** May '08
Marrakech, Morocco
 - Human Language Technologies–North American Association for Computational Linguistics (HLT-NAACL)** Jun '07
Rochester, NY, USA
 - American Machine Translation Association (AMTA)** Aug '06

Boston, MA, USA

2. **AN A-Z STATISTICAL NLP CRASH COURSE WITH A FOCUS ON ARABIC LANGUAGE PROCESSING (4 hours)** Mar '07
IEEE Information and Communication Technologies International Symposium (ICTIS'07)
Fez, Morocco
3. **STATISTICAL NATURAL LANGUAGE PROCESSING: AN A-Z CRASH COURSE (3 days)** Sep '06
Faculty of Engineering and Computer Studies, Cairo University
Cairo, Egypt
4. **INTRODUCTION TO COMPUTATIONAL LINGUISTICS (2 hours)** Feb '05
Linguistics Department,
University of Texas Austin
Austin, TX, USA

Post Doctoral Mentorship

1. **Mahmoud Ghoneim** Jul '12 – present
Received PhD July 2012: Faculty of Engineering, Cairo University, Egypt
Postdoc Focus: Integrating Semantic Knowledge in Statistical Machine Translation
2. **Abdelati Hawwari** Mar '12 – Feb '13
Oct '13 -- present
Received PhD August 2009: Faculty of Literature, Cairo University, Egypt
Postdoctoral Focus: Arabic Lexical Semantics and Multiword Expressions
3. **Davide Picca** May '10 – Apr '11
Received PhD April 2010: University of Lausanne, Switzerland
Postdoc Focus: Unsupervised semantic modeling for comparable corpora
Current Position: Research Technical Liaison, University of Lausanne, Switzerland
4. **Yassine BenAjiba** Fall '09 – Sep '10
Received PhD May 2009: Polytechnical University of Valencia, Spain
Postdoc Focus: Shallow syntactic parsing in Arabic and integration in SMT and IE
Current Position: Research Scientist at Thomson Publishing, NYC, USA
5. **Marine Carpuat** May '09 – Apr '11
Received PhD April 2008: HKUST, Hong Kong
PostDoc Focus: Incorporating Lexical Semantics in Statistical Machine Translation
Current Position: Research Scientist at National Research Council of Canada

PhD Thesis Committee Member

- **Integrating Semantics in Statistical Machine Translation** Mar '12
Mahmoud Ghoneim
Computer Engineering Department
Cairo University. Cairo Egypt
Served as co-supervisor
- **Reverse Feature Engineering for SVMs** Apr '10
Daniele Pighin
Computer Science Department
University of Trento, Italy
- **Semantic Fusion and Generation** Dec '09

Kapil Thadani

Computer Science Department
Columbia University

- **Arabic Named Entity Recognition** May '09
Yassine Benajiba
Departamento de Sistemas Informaticos y Computacion
Universidad Politecnica de Valencia, Spain
- **Automatic Processing of Language Frame Semantics** Apr '09
Bonaventura Coppola
ICT division
University of Trento, Italy
- **Information Retrieval: English and Arabic Documents** May '08
Fadoua Ataa Allah
Faculty of Science
University of Mohamed V, Rabat, Morocco

Student Thesis & Research Supervision

1. **Hanan AIDarmaki** Fall '13 – present
PhD, Department of Computer Science, The George Washington University
2. **Fahad AIGHamdi** Fall '13 – present
PhD, Department of Computer Science, The George Washington University
3. **Maryam Aminian** Fall '13 – present
PhD, Department of Computer Science, The George Washington University
4. **Shabnam Tafreshi** Fall '13 – present
PhD, Department of Computer Science, The George Washington University
5. **Gregory Werner** Spr '13 – present
PhD, Department of Computer Science, The George Washington University
6. **Ali Elkahky** Spr '12 – present
PhD, Computer Science Department, Columbia University
Thesis Topic: Adaptive Semantic Role Labeling for Machine Translation in Morphologically rich languages (with a focus on Informal Genres)
7. **Ayah Zirikly** Spr '12 – present
PhD, Computer Science Department, George Washington University
Joint Supervision
Thesis Topic: Tracking of Named Entities in Multilingual and Multigenre Settings
8. **Heba Elfardy** Fall '10 – present
PhD, Computer Science Department, Columbia University
Thesis Topic: Identifying Perspective in Social Media
9. **Vinodkumar Prabhakaram** Fall '09 – present
PhD, Computer Science Department, Columbia University
Thesis Topic: Power Structures and Modality in Multilingual Social Communication
10. **Weiwei Guo** Fall '07 – present
PhD, Computer Science Department, Columbia University
Thesis Topic: Semantically Nuanced Models for Natural Language Processing
11. **Muhammad AbdulMageed** Spr '10 – present
PhD, Ling. Dept., Information Sciences Dept., Indiana University
Joint Supervision
Thesis Topic: Sentiment Analysis and Perspective in Arabic Social Media
12. **Mahmoud Ghoneim** Fall '06 – Mar '12

*PhD, Computer Engineering Department, Faculty of Engineering, Cairo University
Joint Supervision*

Thesis Topic: Explicit Modeling of Semantics in Statistical Machine Translation

13. Pradeep Dasigi

Fall '10 – Spr '12

MSc, Computer Science Department, Columbia University

Thesis Topic: Dialectal Arabic Orthography Normalization

14. Yassine Benajiba

Fall '07 – Spr '10

*PhD, Computer Science. Departamento de Sistemas Informaticos y Computacion
Universidad Politecnica de Valencia, Spain*

Joint Supervision

Thesis Topic: Arabic Named Entity Recognition

PUBLICATIONS

Thesis

2003

1. **Diab, Mona.** (2003) Word Sense Disambiguation within a multilingual framework. *PhD Thesis, University of Maryland, College Park, August, MD, USA.*

2000

2. **Diab, Mona.** (2000) Exploiting Translations for Semantic Annotation. *Candidacy Thesis, Linguistics Department, University of Maryland, College Park, June, MD, USA.*

Books

- 1 **Diab, Mona** and Christiane Fellbaum. (*forthcoming*) Computational Lexical Semantics: A Multilingual Perspective. *Springer Publishers*, expected Spring 2014.
- 2 **Diab, Mona**, Nizar Habash, Owen Rambow. (*forthcoming*) Processing Arabic Dialects. *Springer Publishers*, expected Fall 2015.

Edited Volumes

2013

- 1 **Diab, Mona**, Tim Baldwin, and Marco Baroni. Editors, (2013) *SEM: 2013 Second Joint Conference on Lexical and Computational Semantics (*SEM). *Volume 1: Proceedings of the Main Conference and the Shared Task Semantic Textual Similarity.* Association for Computational Linguistics. June 2013, Atlanta, Georgia, USA.

2012

- 2 Agirre, Eneko, Johan Bos, **Mona Diab**, Suresh Manandhar, Yuval Marton, and Deniz Yuret. (2012) Editors, *SEM 2012: The First Joint Conference on Lexical and Computational Semantics -- *Volume 1: Proceedings of the main conference and the shared task, and Volume 2: Proceedings of the Sixth International Workshop on Semantic Evaluation (SemEval 2012).* Association for Computational Linguistics. 7-8 June, Montreal Canada, USA.

2011

- 3 Katz, Graham, and **Mona Diab.** Guest Editors, (2011). Special Issue on Georgetown Round Table on Arabic Computational Linguistics Conference. *ACM Transactions on*

Asian Language Information Processing (TALIP). March, Washington DC, USA.

2008

- 4 Matveeva, Irina, Chris Biemann, Monojit Choudhury and **Mona Diab**. Editors, (2008). *Proceedings of the 3rd Textgraphs workshop on Graph-based Algorithms for Natural Language Processing. Coling 2008*. August 2008, Manchester, UK.
- 5 Choukri, Khalid, **Mona Diab**, Bente Maegaard, Paolo Rosso, Abdelhadi Soudi, Ali Farghaly. Editors, (2008) *Proceedings of Workshop on HLT & NLP within the Arabic world: Arabic Language and local languages processing Status Updates and Prospects. LREC 2008*, May, Marrakech, Morocco.

2005

- 6 Darwish, Kareem, **Mona Diab**, Nizar Habash, Editors. (2005) *Computational Approaches to Semitic Languages. Proceedings of ACL Workshop on Computational Approaches to Semitic Languages (CASL)*, June, Ann Arbor, Michigan, MI, USA.

Journal Articles

2013

1. Zirikly, Ayah and **Mona Diab**. (2013) ANEAR: Automatic Named Entity Aliasing Resolution. *Invited as preselected (8/100) to appear in Data and Knowledge Engineering Journal by Elsevier, in preparation.*
2. Agirre, Eneko, Daniel Cer, **Mona Diab**, Aitor Gonzalez-Agirre, and Weiwei Guo, Semantic Textual Similarity. *In Preparation for Computational Linguistics.*
3. Abdul-Mageed, Mohammad, **Mona Diab** and Sandra Kuebler. (2013). SAMAR: A System for Subjectivity and Sentiment Analysis for Arabic Social Media. *Computer Speech and Language*.

2011

4. Abdul-Mageed, Muhammad, and **Mona Diab**. (2011). Linguistically-motivated subjectivity and sentiment annotation and tagging of Modern Standard Arabic. *International Journal on Social Media MMM: Monitoring, Measurement, and Mining. Vol. II (1-2), p19-38, ISSN 1804-5251. www.konvoj.cz*

2009

5. BenAjiba, Yassine, **Mona Diab**, Paolo Rosso. (2009) Arabic Named Entity Recognition: A Feature-driven Study. *In the special issue on Processing Morphologically Rich Languages In IEEE Transactions on Audio, Speech and Language Processing. '17(5), p. 926-934, Jul '09.*
6. BenAjiba, Yassine, **Mona Diab**, Paolo Rosso. (2009) Using Language Independent and Language Specific Features to Enhance Arabic NER. *International Arabic Journal of Information Technology. 6(5), p. 464-473, Jun '09.*

1999

7. Resnik, Philip, Mari B Olsen, **Mona Diab**. (1999) The Bible as a Parallel Corpus: Annotating the 'Book of 2000 Tongues' *Computers and the Humanities*, 33 (1-2), p.129-153, 1999.

Book Chapters

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1. Bar, Kfir, **Mona Diab**, Abdelati Hawwari. (2013) Arabic Multiword Expressions: Resource and Tool Creation. *Book Chapter in Natural Language Processing for Semitic Languages, Editors Naachum Derschowitz and Ephraim Nissim, Vol.3, in*

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4. **Diab, Mona**, Kadri Hacioglu, Daniel Jurafsky. (2007) *Automated Methods for Processing Arabic Text: From Tokenization to Base Phrase Chunking. In Arabic Computational Morphology: Knowledge-based and Empirical Methods. Editors Antal van den Bosch and Abdelhadi Soudi. Kluwer/Springer Publications.*

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2013

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2. Pasha, Arfath, Mohamed Al-Badrashiny, Mohamed Altantawy, **Mona T. Diab**, Nizar Habash, Manoj Pooleery, Owen Rambow, and Ryan M. Roth. (2013) DIRA: Dialectal Arabic Information Retrieval Assistant. *In the Proceedings of IJCNLP 2013, Demonstration Paper, October, Nagoya, Japan.*
3. Muhammad AbdelMageed, **Mona Diab**, Sandra Kubler. (2013) ASMA: A system for Automatic Segmentation and Morpho-syntactic Disambiguation of Modern Standard Arabic. *In the Proceedings of Recent Advances in Natural Language Processing (RANLP 2013), September, Bulgaria.*
4. Weiwei Guo, Hao Li, Heng Ji and **Mona Diab**. (2013) Linking Tweets to News: A Framework to Enrich Online Short Text Data in Social Media. *In Proceedings of ACL, 2013, Sofia, Bulgaria.*
5. Weiwei Guo and **Mona Diab**. (2013) Improving Lexical Semantics for Sentential Semantics: Modeling Selectional Preference and Similar Words in a Latent Variable Model. *In Proceedings of NAACL, 2013, Atlanta, Georgia, USA.*
6. Eneko Agirre, Daniel Cer, **Mona Diab**, Aitor Gonzalez-Agirre and Weiwei Guo. (2013) *SEM 2013 shared task: Semantic Textual Similarity. *In Proceedings of *SEM, 2013, Atlanta, Georgia, USA.*
7. Nadi Tomeh, Nizar Habash, Ryan Roth, Noura Farra, Pradeep Dasigi and **Mona Diab**. (2013) Ensemble Reranking with Linguistic and Semantic Features for Arabic Character Recognition, *In Proceedings of ACL, 2013, Sofia, Bulgaria.*
8. Heba Elfardy, and **Mona Diab**. (2013) Sentence-Level Dialect Identification in Arabic, *In Proceedings of the 51st Annual Meeting of the Association for Computational Linguistics, ACL 2013, Sofia, Bulgaria.*
9. Heba Elfardy, Mohamed ElBadrashiny, **Mona Diab**. (2013). Code-Switch Point Detection in Arabic, *In Proceedings of the 18th International Conference on*

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10. Ayah Ziriky and **Mona Diab**. (2013) ANEAR: Automatic Named Entity Aliasing Resolution. *In Proceedings of the 18th International Conference on Application of Natural Language to Information Systems (NLDB 2013), MediaCity, UK.*
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13. Abdul-Mageed, Muhammad and **Mona Diab**. (2012) Toward Building a large scale Arabic Sentiment Lexicon. *Proceedings of the 6th International Global WordNet Conference, January, Matsue, Japan.*
14. Abdul-Mageed, Muhammad and **Mona Diab**. (2012) AWATIF: A multigenre corpus for MSA subjectivity and sentiment Analysis. *Proceedings of LREC, May, Istanbul Turkey.*
15. Abdul-Mageed, M., Kuebler, S. & **Diab, M.** (2012). SAMAR: A system for subjectivity and sentiment analysis of social media Arabic. *In Proceedings of the 3rd Workshop on Computational Approaches to Subjectivity and Sentiment Analysis (WASSA), held in conjunction with the 50th Annual Meeting on Association for Computational Linguistics, July 12, ICC Jeju, Republic of Korea.*
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20. Elfardy, Heba and **Mona Diab** (2012). Simplified guidelines for the creation of Large Scale Dialectal Arabic Annotations. *Proceedings of LREC, Istanbul, Turkey, May 2012.*
21. Elfardy, Heba and **Mona Diab** (2012). AIDA: Automatic Identification & Glossing of Dialectal Arabic. *Poster Session, Proceedings of European Association for Machine Translation (EAMT 2012), Trento Italy, May 2012.*
22. Guo, Weiwei and **Mona Diab**. (2012) Modeling Sentences in the Latent Space. *Proceedings of ACL 2012, Jeju Island, Korea, July 2012.*
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29. Prabhakaran, Vinodkumar, Owen Rambow, **Mona Diab**. (2012) Predicting Overt Display of Power in Written Dialogs. *Proceedings of NAACL 2012, Short Papers*, Montreal, Canada, June 2012.
30. Prabhakaran, Vinodkumar, Michael Bloodgood, **Mona Diab**, Bonnie J. Dorr, Lori Levin, Christine Piatko, Owen Rambow and Benjamin Van Durme. (2012) Statistical Modality Tagging from Rule-based Annotations and Crowdsourcing. *In Proceedings of ACL Workshop on Extra-propositional aspects of meaning in computational linguistics (ExProM)*. Jeju, South Korea, July, 2012.
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34. Dasigi, Pradeep and **Mona Diab**. (2011) Named Entity Transliteration Generation Leveraging Statistical Machine. *In the Proceedings of NEWS 2011 Workshop, IJCNLP 2011, November, Chiang Mai, Thailand*.
35. Dasigi, Pradeep, and **Mona Diab** (2011) CODACT: Towards Identifying Orthographic Variants in Dialectal Arabic. *Proceedings of IJCNLP 2011, November, Chiang Mai, Thailand*.
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39. Carpuat, Marine, and **Mona Diab**. (2010) Task-based Evaluation of Multiword Expressions: a Pilot Study in Statistical Machine Translation. *Proceedings of NAACL, June, Los Angeles, CA, USA*.
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41. Benajiba, Yassine and **Mona Diab**. (2010) A Web Application for Dialectal Arabic

Text Annotation. *Proceedings of the Workshop on Semitic Language Processing, LREC, May, Malta*.

42. Benajiba Yassine, Imed Zitouni, **Mona Diab**, Paolo Rosso. (2010) Arabic Named Entity Recognition: Using Features Extracted from Noisy Data. *Proceedings of ACL, July, Uppsala, Sweden*.
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44. Zaghouni, Wajdi, **Mona Diab**, Aous Mansouri, Sameer Pradhan, Martha Palmer. (2010) The Revised Arabic PropBank. *Proceedings of ACL Linguistic Annotation Workshop (LAW) IV, July, Uppsala, Sweden*.
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47. Kristen Parton, Kathleen R. McKeown, Robert Coyne, **Mona T. Diab**, Ralph Grishman, Dilek Hakkani-Tür, Mary Harper, Heng Ji, Wei Yun Ma, Adam Meyers, Sara Stolbach, Ang Sun, Gokhan Tur, Wei Xu and Sibel Yaman Who. (2009) What, When, Where, Why? Comparing Multiple Approaches to the Cross-Lingual 5W Task. *Proceedings of ACL-IJCNLP, August, Singapore*.
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49. **Diab, Mona**, Lori Levin, Teruko Mitamura, Owen Rambow, Vinodkumar Prabhakaran, Weiwei Guo. (2009) Committed Belief Annotation and Tagging. *Proceedings of ACL-IJCNLP 2009 Workshop on The Third Linguistic Annotation Workshop (The LAW III), ACL-IJCNLP, August, Singapore*.
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54. BenAjiba, Yassine, **Mona Diab**, Paolo Rosso. (2008) Arabic Named Entity Recognition: An SVM Based Approach. *International Arab Conference on Information Technology (ACIT'2008), December, University of Sfax, Tunisia*.
55. BenAjiba, Yassine, **Mona Diab**, Paolo Rosso, (2008). Arabic Named Entity Recognition using Optimized Feature Sets. *In Proceedings of Empirical Methods for Natural Language Processing (EMNLP), Oct, Hawaii, HI, USA*.
56. **Diab, Mona**, Alessandro Moschitti, Daniele Pighin, (2008) Semantic Role Labeling Systems for Arabic Language using Kernel Methods *In Proceedings of Association for Computational Linguistics (ACL), July, Columbus, OH, USA*.

57. Habash, Nizar, Owen Rambow, **Mona Diab**, Reem Farraj. (2008) Guidelines for Annotating Arabic Dialect, *Proceedings of Workshop on Arabic and its local languages, LREC, May, Marrakech, Morocco*.
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59. Roth, Ryan, Owen Rambow, Nizar Habash, **Mona Diab**, Cynthia Rudin. (2008) Arabic Morphological Tagging, Diacritization, and Lemmatization Using Lexeme Models and Feature Ranking. *In Proceedings of Association for Computational Linguistics (ACL), July, Columbus, OH, USA*.

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61. **Diab, Mona**. (2007) Improved Arabic Base Phrase Chunking with a new enriched POS tag set. *Proceedings of ACL Workshop on Computational Approaches to Semitic Languages (CASL), ACL '07, July, Prague, Czech Republic*.
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63. **Diab, Mona**, Alessandro Moschitti, Daniele Pighin. (2007) CUNIT: A Semantic Role Labeling System for Modern Standard Arabic. *Proceedings of ACL Semantic Evaluation Workshop (SEMEVAL), ACL '07, July, Prague, Czech Republic*.
64. **Diab, Mona** and Alessandro Moschitti. (2007) Semantic Parsing for Modern Standard Arabic. *Recent Advances in Natural Language Processing (RANLP), August, Borovets, Bulgaria*.
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66. Kirchhoff, Katrin, Owen Rambow, Nizar Habash, **Mona Diab**. (2007) Semi-Automatic Error Analysis for Large-Scale Statistical Machine Translation Systems. *Proceedings of Machine Translation Summit (MT-Summit), September, Copenhagen, Denmark*.

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67. Chiang, David, **Mona Diab**, Nizar Habash, Owen Rambow, Safi-Allah Sharif. (2006) Parsing Arabic Dialects. *In Proceedings of the '11th Conference of the European Chapter of the Association for Computational Linguistics (EACL), April, Trento, Italy*.
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73. **Diab, Mona**. (2004) An Unsupervised Approach for Bootstrapping Arabic Sense Tagging. *Proceedings of Arabic Workshop, Computational Linguistics (COLING)*.
74. **Diab, Mona**. (2004) Feasibility of Bootstrapping an Arabic WordNet Leveraging Parallel Corpora and an English WordNet. *Proceedings of First Arabic Language Technology Conference (NEMLAR)*, September, Cairo, Egypt.

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75. **Diab, Mona** and Philip Resnik. (2002) An Unsupervised Method for Word Sense Tagging using Parallel Corpora. *Proceedings of Association for Computational Linguistics (ACL)*, July, Philadelphia, PA, USA.

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77. **Diab, Mona** and Steven Finch. (2000) A Statistical Word-Level Translation Model for Comparable Corpora, *Proceedings of Conference on Content-based Multimedia Information Access (RIAO'00)*, May, Paris, France.
78. Resnik, Philip and **Mona Diab**. (2000) Measuring Verb Similarity, *Proceedings of the conference of International Cognitive Science Society (COGSCI'00)*, July, Philadelphia, PA, USA.

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80. Riopka, Terry, **Mona Diab**, Peter Bock. (1998) Quantifying and Interpreting the Effect of Intelligent Information Exchange. *Proceedings of 6th International Conference on Artificial Intelligence & Applications*, December, Cairo, Egypt.

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Technical Reports

2013

1. **Diab, Mona**, Nizar Habash, Owen Rambow, Ryan Roth. (2013) LDC Arabic Treebanks and Associated Corpora: Data Divisions Manual. Columbia University, Center for Computational Learning Systems. CCLS 13-02, Technical Report.

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2. Habash, Nizar, **Mona Diab**, Owen Rambow. (2011) Conventional Orthography for Dialectal Arabic (CODA) V.1.0. *Technical Report '137382*, <http://academiccommons.columbia.edu/catalog/ac:137382>, Columbia University, New York, NY, USA.

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3. Baker, James, Michael Bloodgood, **Mona Diab**, Bonnie Dorr, Ed Hovy, Keith Levin, Marjorie McShane, Teruko Mitamura, Sergei Nirenburg, Christine Piatko, Owen Rambow, and Gramm Richardson. (2010) SMIT SCALE 2009 – Modality Annotation Guidelines. Technical Report 4, Human Language Technology Center of Excellence, Johns Hopkins University, 2010

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4. Rambow, Owen, David Chiang, **Mona Diab**, Nizar Habash, Rebecca Hwa, Khalil Sima'an, Vincent Lacey, Roger Levy, Carol Nichols, and Safi-Allah Shareef. (2005) Parsing Arabic Dialects. Final Report, JHU Summer Workshop, December, Baltimore, MD, USA.

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5. Riopka, Terry, **Mona Diab**, Peter Bock. (2000) Quantifying and Interpreting the Effect of Intelligent Information Exchange Between Chromosomes in a Human Simulation of a Genetic Algorithm. Technical Report: LAMP-TR-045/UMIACS-TR-2000-38/CS-TR-4147, University of Maryland College Park, June, College Park, MD, USA. [bibtex
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Tutorials

2006

1. **Diab, Mona** and Nizar Habash. Arabic Dialect Processing.

2005

2. **Diab, Mona**. Statistical NLP: An A-Z Crash Course.

Media & Opinion Pieces

2008

- 1 **Diab, Mona**. (2008) It's About Time. CMIC Newsletter, Volume '1, issue #2. Feb 15th. http://research.microsoft.com/en-us/labs/atlc/newsletter_2nd_issue.pdf

2006

- 2 **Diab, Mona**. (2006) Developing a Mentoring Culture in Egypt. Position paper at the Conference for the Association of Egyptian American Scholars (AEAS), National Research Council of Egypt, December, Cairo, Egypt.

PATENTS

- **ANEAR**: *Automatic Named Entity Aliasing Recognition*. Provisional Application Filed (co-inventor Ayah Zirikly), Submitted August 2013, George Washington University
- **OPTDIAC**: *An Optimal Diacritization System for Arabic Writing*. Columbia University, Submitted, Aug '09/11
- **ROAH**: *Automatic Talking Heads Leveraging Traditional & Social Media*. Columbia University, Submitted, Aug '11

INVENTIONS

- **AIDA**: Automatic Identification of Dialectal Arabic. Invention filed 2013, Columbia University. (with Nizar Habash, Owen Rambow, Heba Elfardy, Mohamed Badrashiny, Manoj Pooleery)
- **DIRA**: Dialect Information Retrieval Assistant for Arabic and its Dialects. Invention filed 2013, Columbia University. (with Nizar Habash, Owen Rambow, Arfath Pasha, Mohamed Badrashiny, Manoj Pooleery, Ryan Roth)
- **MADAMIRA**: Automatic Morphological Tagging, Segmentation, Diacritization, Lemmatization, POS tagging, Base Phrase Chunking and Named Entity Recognition for Arabic and its Dialects. Invention filed 2013, Columbia University. (with Nizar Habash, Owen Rambow, Manoj Pooleery, Ryan Roth, Aya Zirikly, Heba Elfardy, Mohamed Badrashiny, Aly ElKahky, Yassine Benajiba)

RELEASED SOFTWARE

Robust Released Technology

- **DIRA**: Dialectal Arabic Information Retrieval Assistant (2013, as part of the Columbia NADIA team; DIRA effort led by Nizar Habash and Owen Rambow) Demo: <http://nlp.ldeo.columbia.edu/dira>
- **AIDA**: Automatic Identification of Dialectal Arabic (2013, as part of the Columbia NADIA team; AIDA effort led by Mona Diab) Demo: <http://nlp.ldeo.columbia.edu/aida>
- **MADAMIRA**: A system for morphological analysis and disambiguation, base phrase chunking and named entity recognition. (2013, as part of the Columbia NADIA team; MADAMIRA merges the popular MADA tool [Habash and Rambow] and AMIRA tool [Diab]) Demo: <http://nlp.ldeo.columbia.edu/madamira>.

Research Prototype Technology

- **CODACT** A Tool for Arabic Dialect Orthographic Conventionalization. Current Version '1.0. <https://nlp.ldeo.columbia.edu/CODACT>. **Diab, Mona** and Pradeep Dasigi. (2011)
- **AIDA** Automatic Identification of Arabic Dialectal Text. A Tool for Dialect Identification & Classification, Named Entity Recognition, English and Modern Standard Arabic Glossing and Normalization. Current Version '1.0. <https://nlp.ccls.columbia.edu/AIDA>. **Diab, Mona**, Heba Elfardy, Yassine Benajiba. (2009-2011)
- **NIDA** Arabic Named Entity Recognition. Current Version 2.0. <https://nlp.ldeo.columbia.edu/NIDA>. Benajiba, Yassine and **Mona Diab**. (2008-2010)
- **AMIRA** Automatic Segmentation/Tokenization, Lemmatization, Diacritization, POS Tagging, Base Phrase Chunking/Shallow Parsing of Arabic Text. Current Version

2.0. <https://nlp.ldeo.columbia.edu/AMIRA> **Diab, Mona**, Yassine Benajiba, Heba Elfardy. (2005-2011)

- **COLANN** COLABA Annotation Interface v.1.0: An annotation interface for Arabic Dialects. Current Version '1.0. <https://nlp.ldeo.columbia.edu/COLANN>. Benajiba, Yassine, **Mona Diab**, Heba Elfardy. (2009-2011)
- **SALAAM-CONT** Automatic Multilingual Online All words Word Sense Disambiguation. Current Version '1.0. <https://nlp.ldeo.columbia.edu/COLANN> **Diab, Mona** and Weiwei Guo. (2007-2009)
- **COMBEL** Automatic Committed Belief Tagging for Running Text. Current Version '1.0. <https://nlp.ldeo.columbia.edu/COMBEL> Prabhakaran, Vinodkumar, **Mona Diab**, Owen Rambow. (2009-2010)

PRESENTATIONS & POSTERS **(Not Associated with Publications)**

2013

1. *Automatic Arabic Multiword Expression Identification*. (with Kfir Bar) A poster in **The Israeli Seminar on Computational Linguistics (ISCOL)**, Ben-Gurion University, Israel.

2011

2. *Power Shifts & Rifts in Social Communications*. (with Kathleen McKeown, Owen Rambow, Dragomir Radev). Invited Presentation, **IARPA SCIL PI Meeting**. Washington DC, USA, Nov '11.
3. *Arabic Dialect Processing under BOLT*. (with Nizar Habash and Owen Rambow). Invited Presentation, **DARPA BOLT Kick-off Meeting**, Tampa Florida, USA, Oct '11.
4. *COLABA Tools and Resources*. (with Nizar Habash and Owen Rambow). Invited Presentation, **DARPA BOLT Kick-off Meeting**, Tampa Florida, USA, Oct '11.
5. *Arabic Subjectivity and Sentiment Analysis: System & Resources*. Invited Poster, **DARPA BOLT Kick-off Meeting**, Tampa Florida, USA, Oct '11.
6. *CADIM Arabic MSA NLP Tools*. (with Nizar Habash and Owen Rambow). Invited Poster, **DARPA BOLT Kick-off Meeting**, Tampa Florida, USA, Oct '11.
7. *Conventionalized Dialectal Arabic (CODA): Guidelines and Tools*. (with Nizar Habash and Owen Rambow). Invited Poster, **DARPA BOLT Kick-off Meeting**, Tampa Florida, USA, Oct '11.
8. *COLABA Tools and Resources*. (with Nizar Habash and Owen Rambow). Invited Presentation, **Brigham Young University**, Utah, USA, Aug '11.
9. *Arabic Language Modeling for OCR*. (with Nizar Habash). Invited Presentation, **DARPA MADCAT PI Meeting**. Boston, MA, USA, Jul '11.
10. *Power Shifts & Rifts in Social Communications*. (with Kathleen McKeown, Owen Rambow, Dragomir Radev). Invited Presentation, **IARPA SCIL PI Meeting**. Washington DC, USA, May '11.
11. *Multilayered Semantic Annotation and challenges of Interoperability*. Invited Presentation, **NSF-funded SILT/FLaReNet Forum on Sustainable Interoperability for Language Technologies**. Brandeis University, MA, USA, Apr '11.

2010

12. *COLABA Annotation, Tools, Resources*. (with Nizar Habash and Owen Rambow). Invited Presentation, **Government Day AMTA 2010**. Denver, CO, USA, Oct '10.
13. *Arabic Language Modeling for OCR*. (with Nizar Habash). Invited Presentation, **DARPA MADCAT PI Meeting**. Boston, MA, USA, Sep '10.

14. *Power Shifts & Rifts*. (with Kathleen McKeown, Owen Rambow, Dragomir Radev). Invited Presentation, **IARPA SCIL PI Meeting**. Washington DC, USA, May '10.

15. *Arabic Dialect Processing within the Context of Social Media*. (with Nizar Habash and Owen Rambow). Invited Presentation, **COLABA Review Day, MITRE Corporation**. McLean, VA, USA, Apr '10.

2009

16. *Arabic Language Modeling for OCR*. (with Nizar Habash). Invited Presentation, **DARPA MADCAT PI Meeting**. Boston, MA, USA, Sep '09.

17. *Power Shifts & Rifts*. (with Kathleen McKeown, Owen Rambow, Dragomir Radev). Invited Presentation, **IARPA SCIL PI Meeting**. Washington DC, USA, Oct '09.

2008

18. *SALAMAT: Sense Assignment Leveraging Alignments, Monolingual And Translation*. (with Weiwei Guo). Invited Demo/Poster, **NSF sponsored symposium on Semantic Knowledge Discovery, Organization and Use, NYU**. New York, NY, USA, Nov '08.

19. *Columbia CCLS: Committed Belief and Dialog Acts*. (with Owen Rambow and Becky Passaneau). Invited Presentation, **Human Language Technology Center of Excellence, University of Maryland**. College Park, MD, USA, Sep '08.

20. *Tools for Arabic Morphological Analysis, Disambiguation and Tokenization*. (with Nizar Habash and Owen Rambow). Invited Presentation, **Technology Forum, DIA and TSWG**. McLean, VA, Jul '08.

21. *CADIM: Natural Language Processing for Arabic and its dialects*. (with Nizar Habash and Owen Rambow). Invited Presentation, **CASL, University of Maryland**. College Park, MD, USA, Jun '08.

22. *Factivity Annotations*. (with Owen Rambow, Lori Levin, and Teriku Mitamura). Invited Presentation, **JHU Human Language Technology Center of Excellence, University of Maryland**. College Park, MD, USA, May '08.

2007

23. *Impact of Partial Arabic Diacritization on Statistical Machine Translation*. (with Mahmoud Ghoneim and Nizar Habash). Invited Presentation, **DARPA GALE PI Meeting**. San Francisco, CA, USA, May '07.

24. *Semi-Automatic Error Analysis of the NIGHTINGALE Machine Translation System*. (with Katrin Kirchhoff, Nizar Habash, Owen Rambow, Evgeny Matusov). Invited Presentation, **DARPA GALE PI Meeting**. San Francisco, CA, USA, May '07.

2006

25. *Modern Standard Arabic Verb Alternations*. (with Neal Snider). Paper presented at the **Annual Meeting of the Arabic Linguistics Society (ALS) Conference**. Kalamazoo, MI, USA, Mar '06.

26. *NLP Tools for Arabic*. (with Nizar Habash and Owen Rambow). Invited Presentation, **DARPA GALE PI Meeting**. Boston, MA, USA, May '06.

27. *Developing a Mentoring Culture in Egypt*. Position paper presentation at the **Conference for the Association of Egyptian American Scholars, National Research Council of Egypt**. Cairo, Egypt. Dec '06.

2005

28. *Treebank Transduction. Arabic Dialect Parsing*. (with Owen Rambow, Nizar Habash, Khalil Simaan, David Chiang, Rebecca Hwa, Roger Levy, Vincent Lacey, Saif-Allah Shareef). **Johns Hopkins Summer Workshop Final Presentation Symposium**. Baltimore, MD, USA, Aug '05.

2001

29. *An Unsupervised method for Word Sense Tagging using Parallel corpora*. Poster Session: **UMIACS Research Day, University of Maryland**. College Park, MD, USA, Mar '01.

2000

30. *Statistical Methods and Linguistics*. (with Elixabete Murguia). **LingFest, Linguistics Department University of Maryland**. College Park, MD, USA, Nov '00.

31. *An Unsupervised Method for Word Sense Tagging using Parallel corpora*. **North East Scholars NLP workshop: IBM T.J. Watson Research Center, Hawthorne, NY, USA, Oct '00**.

32. *MADLIBS: An LCS based Translingual Information Retrieval System*. (with Maria Katsova). **Demonstration: NAACL'00**. Seattle, WA, USA, May '00.

33. Dorr, Bonnie, Gina Levow, Douglas Oard, Philip Resnik, Amy Weinberg, **Mona Diab**, Maria Katsova. (2000) *MADLIBS: An Event Translingual Lexical Conceptual Structure Based Information Retrieval System*. **North American Association for Computational Linguistics (NAACL)**, June, Seattle, WA, USA.

34. *A Statistical Model of Word-Level Mapping for Comparable Corpora*. **UMIACS Computational Linguistics Colloquium, University of Maryland**. College Park, MD, USA, Spr '00.

1999

35. *Word Sense Disambiguation: Lexical Ambiguity Resolution within a Selection Preference Model*. **Linguistics Student Conference, Linguistics Dept., University of Maryland**. College Park, MD, USA, Fall '99.

36. *Cross Language Information Retrieval: An LCS based approach for Spanish queries and English Documents*. (with Maria Katsova). **Poster Session: UMIACS Research Day, University of Maryland**. College Park, MD, USA, Feb '99.

1997

37. *A Preliminary Statistical Investigation into the Impact of Using an N-Gram Analysis for the Purposes of Text Author Identification (Author Classification)*. **Linguistics Student Conference, Linguistics Dept., University of Maryland**. College Park, MD, USA. Fall '97.

PROFESSIONAL ACTIVITIES

Academic Services within GWU

- Member of the Departmental Faculty Committee on **Research**. *Fall '13*
- Member of the Departmental Faculty Committee on **Awards**. *Fall '13*
- Member of the Departmental Committee on the **Graduate Student Admission**. *Spr' 13 - present*.
- Member of the Departmental Faculty Committee on the **Curriculum**. *Spr '13*
- Member of the Departmental Faculty Committee on the **Faculty Retreat**. *Spr '13*.
- Member of the Departmental Faculty Committee on **Target of Opportunity Hires**. *Spr '13*.

Academic Services within Columbia University

- Member of **Columbia Senate Committee for Research Officers**. *Fall '05–Fall '12*.
 - The committee represents a ~3k constituency of Research Officers at Columbia University including: Professional Research Officers, Post-Docs, and Research Staff. It comprises '9 members.

- Leading the effort on the creation of professorial titles for Professional Research Officers who serve as independent PIs and advisors of record for students.
- Member of the **Columbia Senate Committee on the External Affairs and Public Relations**. *Fall '11– Fall '12.*
- Member of the **Columbia Senate Commission on the Status of Women**. *Spr '10– Fall '12.*
- Member of **SEAS Dean's Committee for Research Scientists**. *Fall '09– Fall '12.*
- Member of Columbia Senate committee on University Rules of Conduct *Spr '08–Fall '09.*
- Member of **Columbia Senate committee on Alumni Relations**. *Spr '08–Fall '09.*
- Member of **CCLS Strategy Committee**. *Fall '06– Fall '13.*
- Organizer of the **CCLS-Yahoo Distinguished Lecture Series**. *Spr '10– Fall '12*
- Organizer of **CCLS Colloquium Series**. *Fall '07– Spr '08.*
- Represented CCLS in the **SEAS Executive Council Meetings**. *Fall '07–Spr '09.*
- Representing Columbia University **Bi-annual National Council on Women in Information Technology (NCWIT)** meetings. *Fall '05–present.*
- Member of **Columbia Senate Committee on Physical Development**. *Fall '05–Spr '06.*
- Organizer of **Stanford Computational Linguistics Colloquium Series**. *Spr '04– Fall '04.*

Academic Services within NLP Community

Grant Proposal Reviewer

- | | |
|---------------------------------------|--------------------------|
| • <i>NSF Semantics Panel</i> | Mar'13 |
| • <i>KACST Research Fund</i> | Jan '12 –present |
| • <i>NSF OISE Program</i> | Feb '12 |
| • <i>Qatar National Research Fund</i> | Spr '10 – Sep '12 |
| • <i>NSF Linguistics Program</i> | Apr '11 |
| • <i>NSF SoCS Program Panel</i> | Jan '10 |
| • <i>NSF HSD Awards Panel</i> | May '08 |
| • <i>NSF Career Awards</i> | Fall '05 |

Conference and Workshop Organization

- | | |
|--|--------------------------|
| • General Chair <i>*SEM 2nd Joint Semantics Conference</i> | Spr '13 |
| • <i>DARPA Funded Unified Semantic Framework for Textual Similarity Workshop</i> | Feb '12 |
| • <i>Area Co-Chair for ACL 2012 Multilinguality</i> | Aug '11 –Jul '12 |
| • <i>Program Co-Chair of '1st International Joint Conference on Semantics *SEM 2012</i> | Aug '11 –Jun'12 |
| • <i>Workshops Co-Chair, NAACL 2012</i> | Jun '11- Jun '12 |
| • <i>Co-Organizer SEMEVAL Task on Multilayer Semantic Annotation and STS</i> | Jul '11 – Jun '13 |
| • <i>Chair and co-organizer of 2nd NSF Funded Workshop on Linguistic Code Switching</i> | Dec '10 |
| • <i>Chair and co-organizer of NSF Funded Workshop on Linguistic</i> | Jun '10 |

- *Code Switching*
- *Area Chair for NAACL Semantics and Machine Learning* Feb '10
- *Area Chair for EMNLP Multilinguality* May '09
- *Co-Chair COLING-HLT Workshop on TextGraphs* Aug '08
- *Co-Chair LREC Workshop on Arabic and Local Languages* May '08
- *Chair and co-organizer of NSF Funded Workshop on Linguistics Code Switching* Apr '08
- *Organizer of SEMEVAL '1 Task '18 on Arabic Semantic Labeling* Jun '07
- *Co-Chair ACL Workshop on Computational Approaches to Semitic Languages* Jun '05

PROGRAM COMMITTEE MEMBER

▪ **Journals**

Transactions on Computational Linguistics
 Computational Linguistics
 IEEE Speech Communication
 Computers and Humanities
 Computers, Speech and Language
 Journal of Natural Language Engineering
 Egyptian Journal of Language Engineering
 Journal for Language Resources and Evaluation
 ACM Transactions on Speech and Language Processing
 Journal of Artificial Intelligence Research
 Journal of Cognitive Science
 ACM Transactions on Asian Language Information Processing (TALIP)
 Machine Translation

▪ **Conferences**

Association for Computational Linguistics (ACL)
 Cognitive Science Society (CogSci)
 Computational Linguistics (COLING)
 NEMLAR; Human Language technologies (HLT)
 Conference on Artificial Intelligence (AAAI)
 North American Association for Computational Linguistics (NAACL)
 Empirical Methods in Natural Language Processing (EMNLP)
 Egyptian Conference on Language Engineering (ESCOLE)
 European Association for Computational Linguistics (EACL)
 International Joint Conferences on Artificial Intelligence (IJCAI)
 International Joint Conference on Natural Language Processing (IJCNLP)
 Recent Advances in Natural Language Processing (RANLP)
 International Conference on Linguistic Resources and Evaluation (LREC)
 Machine Translation Summit (MT Summit)
 Association for Machine Translation in the Americas (AMTA)
 Conference on Intelligent Text Processing and Computational Linguistics (CICLING)

▪ **Workshops**

MWE (ACL 2011)
 Text Graphs (ACL 2011)

LAWS V (ACL 2011)
LREC Workshop on HLT for Semitic Languages (LREC 2010)
Statistical Machine Translation (ACL 2008)
TextGraphs (COLING 2008)
Student Research Workshop (ACL 2008)
Arabic and Local Languages (LREC 2008)
Computational Approaches to Semitic Languages (ACL 2007)
SEMEVAL '1 (ACL 2007)
Computational Approaches to Arabic Script based Languages (2007)
Student Research Workshop (HLT-NAACL 2007)
Cross Language knowledge Induction (EACL 2006)
Student Research Workshop (ACL 2005)
Parallel Text (ACL 2005)
Computational Approaches to Semitic Languages (ACL 2005)
Cross-Language Knowledge Induction Workshop (EUROLAN 2005)
Computational Approaches to Arabic Script based Languages (COLING 2004)

PROFESSIONAL MEMBERSHIPS

- Association for Computational Linguistics
- Cognitive Science Society
- American Association for Artificial Intelligence
- Institute for Electrical & Electronics Engineers
- Society of Women Engineers
- National Electrical and Computer Engineering honor society (HKN)

COMPUTER SKILLS

- Extensive software development experience under Windows and Unix and Internet web design.
- Extensive Experience developing sophisticated algorithms in AI using state of the art Machine Learning technologies.
- Languages and Tools: Perl, C, Python, Java, C++, Pascal, Prolog, Basic, Assembly, MatLab, R, WEKA

LANGUAGE SKILLS

- ***Arabic, English:*** native proficiency
- ***French:*** very good

REFERENCES

- Available upon request