

## Ahmed El-Kishky

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*Address:*  
904 W. Stoughton St. APT 23  
Urbana, IL 61801

*Web:* <http://web.engr.illinois.edu/elkishk2/>  
*Voice:* +1-903-326-3064  
*Email:* elkishk2@illinois.edu

**Education**      **PhD Computer Science**, University of Illinois at Urbana Champaign (2013 - Present)  
Area: Machine Learning and Data Mining  
Advisor: Jiawei Han  
GPA: 4.0

**BS Computer Science, BS Math**, *University of Tulsa* (2009 – 2013)  
GPA: 3.91

**Research and Industry Experience**      **Graduate Researcher** (August 2013 - Present)  
• Performing research while completing my PhD under supervision of Professor Jiawei Han in the Data Mining Group. My work focuses mainly on unstructured text mining and graph/network mining.

**Software Engineering PhD Intern**, Facebook (Summer 2016)  
• Performed machine learning software engineering work at Facebook.

**Research Intern**, Google (Spring 2016)  
• Performed machine learning research at Google Research.

**Software Engineer - Machine Learning**, Palantir Technologies (Summer 2015)  
• Performed machine-learning related software engineering and data science work.

**Research Intern**, Microsoft Research (Spring 2015)  
• Performed data mining research at Microsoft Research.

**Software Engineering Intern**, Rocket Fuel Inc (Summer 2013)  
• Performed data science and software engineering roles within the mobile advertising team while working at their Redwood City, CA headquarters.

**NSF REU Researcher**, University of Massachusetts Amherst (Summer 2012)  
• Performed research into clustering and causal extraction from relational data under supervision of Dr. David Jensen.

**NSF REU Researcher**, University of Notre Dame (Summer 2011)  
• Performed research in the use of mobile computing, wireless sensors, and high performance computing for computational fluid dynamics under the supervision of Dr. Christian Poellabauer.

### Entrepreneurship & Business

**Team Leader: First Place**, Donald W. Reynolds Governor's Cup Tech Entrepreneurship Competition (2013)  
• Developed, prototyped, wrote a business plan, and presented on an original tech entrepreneurship idea. (\$22,000 prize)

**Graduate**, UIUC NSF I-CORP for Startup Formation (2015)  
• Attended a workshop series where we define a tech business idea, research market, and present to investors (\$3,000 funding for market research).

### Honors/Awards

• Awardee, NDSEG Graduate Research Fellowship \* (2015)

- Awardee, NSF Graduate Research Fellowship \* (2013)
- University of Tulsa Presidential Scholarship, merit-based academic scholarship (2009-2013) covering all tuition and living expenses.
- Team Leader of third and first place team in state-wide, DWR Governor’s Cup Tech Entrepreneurship Competition (\$6,000, \$22,000 prizes) (2012, 2013)
- First place team competition at Oklahoma/Arkansas MAA Mathematics Competition (2010, 2011, 2012)
- National Merit Scholar \*: Designation by NMSC. (2009)
- Class Salutatorian: Rank 2 / ~650 at Robert E. Lee HS. (2009)

## Skills

- **Languages:** Native fluency in English and Arabic
- **Programming Languages:** C#, Python, Java, Lisp, SQL, Hive, R, LaTeX

## Publications

**Ahmed El-Kishky**, Yanglei Song, Chi Wang, Clare R. Voss, Jiawei Han, “Scalable Topical Phrase Mining from Text Corpora”, PVLDB Vol. 8 (Also, Proc. 2015 Int. Conf. on Very Large Data Bases (VLDB’15), Kohala Coast, Hawaii, Sept. 2015)

Xiang Ren, **Ahmed El-Kishky**, Chi Wang, Fangbo Tao, Clare R. Voss, Heng Ji, Jiawei Han. “ClusType: Effective Entity Recognition and Typing by Relation Phrase-Based Clustering”, *2015 ACM SIGKDD Conf. on Knowledge Discovery and Data Mining* (KDD’15)

Chenguang Wang, Yangqiu Song, **Ahmed El-Kishky**, Dan Roth, Ming Zhang, Jiawei Han, “Incorporating World Knowledge to Document Clustering via Heterogeneous Information Networks”. *2015 ACM SIGKDD Conf. on Knowledge Discovery and Data Mining* (KDD’15)

F. Tao, J. Han, H. Ji, G. Brova, C. Wang, **A. El-Kishky**, J. Liu, X. Ren and Y. Sun, NewsNetExplorer: Automatic Construction and Exploration of News Information Networks (system demo), *2015 ACM SIGMOD Conf. on Management of Data* (SIGMOD’14)

D. Arbour, J. Atwood, **A. El-Kishky**, and D. Jensen. Agglomerative clustering of bagged data using joint distributions. In Papers from the *International Conference on Machine Learning (ICML) Workshops on Structured Learning: Inferring Graphs from Structured and Unstructured Inputs*

**El-Kishky, Ahmed**. “Assessing entropy and fractal dimensions as discriminants of seizures in EEG time series.” *Information Science, Signal Processing and their Applications* (ISSPA 2012)

## Tutorial Presentations

Ren, Xiang, **El-Kishky, Ahmed**, Ji, Heng, & Han, Jiawei. “Automatic Entity Recognition and Typing in Massive Text Data.”, *ACM SIGMOD 2016*.

Ren, Xiang, **El-Kishky, Ahmed**, Wang, Chi, & Han, Jiawei. “Automatic Entity Recognition and Typing in Massive Text Corpora.”, *2016 WWW*.

Xiang Ren, **Ahmed El-Kishky**, Chi Wang, Jiawei Han, “Automatic Entity Recognition and Typing from Massive Text Corpora: A Phrase and Network Mining Approach”, *2015 ACM SIGKDD Conf. on Knowledge Discovery and Data Mining* (KDD’15)

Jiawei Han, Chi Wang, **Ahmed El-Kishky**, “Bringing Structure to Text: Mining Phrases, Entities, Topics, and Hierarchies”, *2014 ACM SIGKDD Conf. on Knowledge Discovery and Data Mining* (KDD’14)

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\*Nationally competitive