Innovative Database and Information Systems Research Laboratory

idir.uta.edu

Chengkai Li, Associate Professor

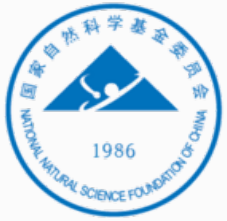
Research areas

- Big Data and Data Science (Database, Data Mining, Natural Language Processing)

Research directions

- computational journalism, computational fact-checking **(global leading position, well-known in both computing and professional fact-checking communities)**
- crowdsourcing and human computation
- cybersecurity, social bots
- data exploration by ranking/skyline/preference queries
- graph database usability, knowledge graphs

Funding Sponsors



As PI

- NSF IIS #1719054
- New Knight Foundation Grant
- Texas National Security Network Excellence Fund
- NSF I-Corps Teams #1565699
- Knight Prototype Fund
- NSF IIS Medium #1408928
- HP Labs Innovation Research Award, 2011 and 2012
- NSF IIS #1018865
- UTA REP, FDL

As Co-PI

- NSF CCF #1117369
- NSFC 61370019

In the Press

AP
Associated Press

The Washington Post

theguardian

The Dallas Morning News

Star-Telegram

THE SHORTHORN
UT-ARLINGTON'S MAIN NEWS SOURCE SINCE 1919

CUNY GRADUATE SCHOOL OF JOURNALISM
TOW-KNIGHT CENTER FOR
ENTREPRENEURIAL JOURNALISM

journalism
.co.uk

SXSW

Poynter.
A global leader in journalism

NiemanReports

POLICY
OPTIONS
POLITIQUES

MEDIASHIFT

FIRST DRAFT

NewStatesman

PLAID ZEBRA

TechXplore

WIRED

New
Scientist

NEW ATLAS

ZDNet Korea

EurekAlert!
The Global Source for Science News
AAAS

Austin
American-
Statesman

the FACT-
CHECKING
PROJECT
AMERICANPRESS
institute

NORDIC APIS

Achievements and Recognitions

Awards

- ACM SIGMOD 2017 Most Reproducible Paper
- First Runner-Up Award in SIGMOD17 Undergraduate Research Competition (Damian Jimenez)
- VLDB 2014 Excellent Demonstration Award
- 2011 and 2012 HP Labs Innovation Research Award
- 3rd place in best Vision Track paper competition in CIDR 2011

Publications in top-tier conferences and journals

- SIGMOD, VLDB, ICDE, EDBT, CIDR, KDD, WWW, CIKM, WSDM, ISWC, TODS, TKDD, TKDE

Keynotes/panels/invited talks

- SXSW 2017, MetroCon 2017, PyData 2015, Data4U workshop (VLDB 14), ACS workshop (SDM 13)

Professional services

- General Chair/Program Chair (IEEE IPCCC), Finance Chair (SIGMOD17), Publicity Chair (WAIM16)
- Associate editor of top-tier journals
- Program committee member and editorial board member of many top-tier conferences and journals

IDIR Students

Current students

- **7 Ph.D.** students, **3 M.S.** thesis students, **2 B.S.** students (including REUs)

Graduated students

- **4 Ph.D.** students**, 18 M.S.** thesis and GRA students, **9 B.S.** students (including REUs)

Internships

- Amazon A9 Labs, AT&T, Google, HP Labs, Huawei, IBM Research India, NEC Labs, Qatar Computing Research Institute (QCRI), RedHat

First-employment after graduation

- **Tenure-track assistant professor :** University of Mississippi
- **Researchers:** Huawei US R&D Center, IBM Research India
- **Software engineers:** Akamai, Amazon, Ambit Energy, Capital One, Cerner, Copper Labs, Dematic, Electronic Arts (EA) , Google, Microsoft, Pivotal

Collaborators

On current projects

- Bill Adair (Duke)
- Pankaj Agarwal (Duke)
- Xiang Ao (Chinese Academy of Sciences)
- Vassilis Athitsos (UTA)
- Sourav Bhowmick (Nanyang Technological University)
- Byron Choi (Hong Kong Baptist University)
- Christoph Csallner (UTA)
- Peter Frays (University of Technology Sydney)
- James Hamilton (Stanford)
- Naeemul Hassan (Mississippi)
- Wei Hu (Nanjing University)
- Angela Lee (UTD)
- Zhiqiang Lin (UTD)
- Ping Luo (Chinese Academy of Sciences)
- Mark Tremayne (UTA)
- Jun Yang (Duke)
- Cong Yu (Google)

On past projects

- Sharma Chakravarthy (UTA)
- Fei Chen (LinkedIn)
- Shimin Chen(Chinese Academy of Sciences)
- Gautam Das (UTA)
- Chris Ding (UTA)
- Ramez Elmasri (UTA)
- Leonidas Fegaras (UTA)
- Arijit Khan (Nanyang Technological University)
- Min Wang (Visa Research)
- Xifeng Yan (UCSB)
- Nan Zhang (Penn State)

CLAIMBUSTER

Toward the Holy Grail of Automated Fact-checking

idir.uta.edu/claimbuster

ClaimBuster: Automated Live Fact-checking

Political Claim Taxonomy | Data Collection | Press | Acknowledgement

Enter Your Own Text

2016 U.S. Presidential Debates

Hansard: Parliament of Australia

ClaimBuster API

ClaimBuster Slackbot

End-to-end Fact-checking (beta)

Tweets by @ClaimBusterTM

ClaimBuster Retweeted

Linda McMahon @SBALinda

The U.S. has 29 million small businesses & nearly 867,000 of them are in #Michigan. Almost ALL businesses in Michigan, 99.6% are #SmallBiz.

Aug 8, 2017

ClaimBuster Retweeted

Governor Walker @GovWalker

Since 2013, Kenosha County has seen nearly $1 billion in capital investment – creating over 6,000 jobs!

Embed View on Twitter

IDIR Projects and Demos

- Demonstration Videos https://vimeo.com/channels/1024406

- Botminator: Automated Detection of Fact-news Bots
- ClaimBuster (idir.uta.edu/claimbuster) Automated, Live Fact-Checking
- CrewScout (idir.uta.edu/crewscout) Expert Team Finding by Skyline Groups
- ERQ: Entity-Relationship Query (idir.uta.edu/erq) Structured Entity-Centric Query on Wikipedia
- Facetedpedia (idir.uta.edu/facetedpedia) Faceted search interface for Wikipedia
- FactWatcher (idir.uta.edu/factwatcher) Automated Monitoring of Facts from Real-World Events
- GQBE (idir.uta.edu/gqbe) Graph Query by Example
- Orion (idir.uta.edu/orion) Auto-suggestion for Interactive Graph Query Formulation
- TableView Generating Preview Tables for Knowledge Graphs