

Fei Liu

University of Central Florida
4000 Central Florida Blvd, Orlando, FL 32816
<http://www.cs.ucf.edu/~feiliu>

+1 407-823-3183
feiliu@cs.ucf.edu

RESEARCH INTERESTS

Natural language processing, automatic text summarization, language generation, information extraction, social media analytics, machine learning, reinforcement learning, deep neural networks

EDUCATIONAL BACKGROUND

- Postdoctoral Fellow** 2013 – 2015
Carnegie Mellon University, Pittsburgh, Pennsylvania
Advisors: Noah A. Smith, Norman Sadeh
- Ph.D. in Computer Science** 2007 – 2011
University of Texas at Dallas, Richardson, Texas
Advisor: Yang Liu. Committee members: Vincent Ng, Carlos Busso, Sanda Harabagiu
- B.S./M.S. in Computer Science** 2000 – 2007
Fudan University, Shanghai, China
Advisors: Xuanjing Huang, Lide Wu

EMPLOYMENT HISTORY

- Assistant Professor of Computer Science** Aug. 2015 – present
University of Central Florida, Orlando, Florida
- Leads a research group focused on automatic text summarization and language generation techniques. The research exploits extractive and abstractive summarization methods to generate fluent, informative, and accurate summaries that enable efficient browsing of large document collections. The models are built using statistical machine learning techniques and deep neural architectures [C1][C4][C5].
- Senior Research Scientist** Jan. 2013 – Nov. 2013
Bosch Research and Technology Center, Palo Alto, California
- Designed and developed deep natural language understanding systems for in-car applications. The work focused on natural language interaction, spoken language understanding, summarization [C15][C22], social media [C23], and applications of machine learning techniques in these areas.
- Research Scientist** May 2011 – Dec. 2012
Bosch Research and Technology Center, Palo Alto, California
- Developed one of the first text normalization systems for automatically translating non-standard words (e.g., *tmrw*) appearing on social media into standard forms [C24]; developed state-of-the-art text normalization & event summarization systems for reading out Twitter messages and trending news to car drivers via a text-to-speech (TTS) system [C21][C25].

HONORS AND AWARDS

- **Area Chair Favorite Paper** at the 27th Intl. Conference on Computational Linguistics (COLING), 2018
- **Best Paper Finalist** at the 25th International World Wide Web Conference (WWW), 2016
- Invited to participate in **MIT Rising Stars in EECS** (An Academic Career Workshop for nearly 60 top EECS women scholars in academia), 2015
- Special Performance Recognition Award, Director of Research, Bosch Research, 2012
- On-Ramps into Academia workshop Travel Grant, National Science Foundation (NSF), 2012
- **Erik Jonsson Distinguished Research Fellowship**, University of Texas at Dallas, 2007 – 2011
- Academic Excellence Award, University of Texas at Dallas, 2011
- CRA-W Career Mentoring Workshop Travel Grant, National Science Foundation (NSF), 2011
- The Aage and Margareta Moller Endowed Scholarship, University of Texas at Dallas, 2010
- SIGDIAL Conference Travel Grant, International Speech Communication Association (ISCA), 2008

PUBLICATIONS

Journal Publications

- [J1] Wencan Luo, Fei Liu, Zitao Liu, and Diane Litman. “A Novel ILP Framework for Summarizing Content with High Lexical Variety”. *Journal of Natural Language Engineering*, Cambridge University Press, September 2018.
- [J2] Shomir Wilson, Florian Schaub, Frederick Liu, Kanthashree Mysore Sathyendra, Daniel Smullen, Sebastian Zimmeck, Rohan Ramanath, Peter Story, Fei Liu, Norman Sadeh, and Noah A. Smith. “Analyzing Privacy Policies at Scale: From Crowdsourcing to Automated Annotations”. *ACM Transactions on the Web (TWEB)*, 2018.
- [J3] Patrícia Alves-Oliveira, Richard G Freedman, Dan Grollman, Laura Herlant, Laura Humphrey, Fei Liu, Ross Mead, Frank Stein, Tom Williams, and Shomir Wilson. “Reports on the 2016 AAI Fall Symposium Series”. *AI Magazine*, Vol. 38, No. 2, pp. 86–90, July 2017
- [J4] Joel R. Reidenberg, Travis Breaux, Lorrie Faith Cranor, Brian French, Amanda Grannis, James T. Graves, Fei Liu, Aleecia M. McDonald, Thomas B. Norton, Rohan Ramanath, N. Cameron Russell, Norman Sadeh, and Florian Schaub. “Disagreeable Privacy Policies: Mismatches between Meaning and Users’ Understanding”. *Berkeley Law Technology Journal*, Vol. 30, 2015.
- [J5] Fei Liu and Yang Liu. “Towards abstractive speech summarization: Exploring unsupervised and supervised approaches for spoken utterance compression”. *IEEE Transactions on Audio, Speech and Language Processing*, Vol. 21, No. 7, pp. 1469–1480, July 2013.
- [J6] Fei Liu, Feifan Liu, and Yang Liu. “A supervised framework for keyword extraction from meeting transcripts”. *IEEE Transactions on Audio, Speech and Language Processing*, Vol. 19, No. 3, pp. 538–548, March 2011.
- [J7] Fei Liu, Xuanjing Huang, and Lide Wu. “Approach for extracting thematic terms based on association rules” (in Chinese). *Computer Engineering*, Vol. 34, No. 7, pp. 81–83, 2008.

Referred Conference and Workshop Publications

[Students under my direct supervision are denoted as ^S.]

- [C1] Logan Lebanoff^S, Kaiqiang Song^S, and Fei Liu. “Adapting the Neural Encoder-Decoder Framework from Single to Multi-Document Summarization”. In *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, Brussels, Belgium, November, 2018.
- [C2] Logan Lebanoff^S and Fei Liu. “Automatic Detection of Vague Words and Sentences in Privacy Policies”. In *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, Brussels, Belgium, November, 2018.
- [C3] Kexin Liao^S, Logan Lebanoff^S, and Fei Liu. “Abstract Meaning Representation for Multi-Document Summarization”. In *Proceedings of the 27th Intl. Conf. on Computational Linguistics (COLING)*, Santa Fe, New-Mexico, August 2018. [**Oral Presentation, Area Chair Favorite Paper**]
- [C4] Kaiqiang Song^S and Fei Liu. “Structure-Infused Copy Mechanisms for Abstractive Summarization”. In *Proceedings of the 27th International Conference on Computational Linguistics (COLING)*, Santa Fe, New-Mexico, August 2018. [**Oral Presentation**]
- [C5] Kristjan Arumae^S and Fei Liu. “Reinforced Extractive Summarization with Question-Focused Rewards”. In *Proceedings of the 56th Annual Meeting of the Association for Computational Linguistics, Student Research Workshop*, Melbourne, Australia, July 2018
- [C6] Yanshan Wang, Sijia Liu, Majid Rastegar-Mojarad, Liwei Wang, Feichen Shen, Fei Liu, Hongfang Liu. “Dependency and AMR Embeddings for Drug-Drug Interaction Extraction from Biomedical Literature”. In *Proceedings of the 8th ACM International Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM-BCB)*, Boston, Massachusetts, August 2017.
- [C7] Kristjan Arumae^S, Guo-Jun Qi, and Fei Liu. “A Study of Question Effectiveness Using Reddit ‘Ask Me Anything’ Threads”. In *Proceedings of the 30th Florida Artificial Intelligence Research Society Conference (FLAIRS)*, Marco Island, Florida, May 2017.
- [C8] Sansiri Tarnpradab^S, Fei Liu and Kien Hua. “Toward Extractive Summarization of Online Forum Discussions via Hierarchical Attention Networks”. In *Proceedings of the 30th Florida Artificial Intelligence Research Society Conference (FLAIRS)*, Marco Island, Florida, May 2017.
- [C9] Shomir Wilson, Florian Schaub, Rohan Ramanath, Norman Sadeh, Fei Liu, Noah A. Smith, and Frederick Liu. “Crowdsourcing Annotations for Websites’ Privacy Policies: Can It Really Work?” In *Proceedings of the 25th International World Wide Web Conference (WWW)*, Montreal, Canada, April 2016. Acceptance rate 5/727=0.7%. [**Oral Presentation, Best Paper Finalist**]
- [C10] Wencan Luo^S, Fei Liu, Zitao Liu and Diane Litman. “Automatic Summarization of Student Course Feedback”. In *Proceedings of the 15th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL)*, San Diego, California, June 2016. Acceptance rate 182/680=27%. [**Oral Presentation**]
- [C11] Wencan Luo^S, Fei Liu, and Diane Litman. “An Improved Phrase-based Approach to Annotating and Summarizing Student Course Responses”. In *Proceedings of the 26th International Conference on Computational Linguistics (COLING)*, Osaka, Japan, December 2016. Acceptance rate 337/1039=32.4%. [**Oral Presentation**]
- [C12] Fei Liu, Nicole Fella^S, and Kexin Liao^S. “Modeling Language Vagueness in Privacy Policies using

- Deep Neural Networks”. In *Proceedings of the AAAI 2016 Fall Symposium on Privacy and Language Technologies*, Washington, D.C., November 2016. [**Oral Presentation**]
- [C13] Dani Yogatama, Fei Liu, and Noah A. Smith. “Extractive Summarization by Maximizing Semantic Volume”. In *Proceedings of the 2015 Conference on Empirical Methods on Natural Language Processing (EMNLP)*, Lisboa, Portugal, September 2015. Acceptance rate 312/1300=24%.
- [C14] Fei Liu, Jeffrey Flanigan, Sam Thomson, Norman Sadeh, Noah A. Smith. “Toward Abstractive Summarization Using Semantic Representations”. In *Proceedings of the North American Chapter of the Association for Computational Linguistics (NAACL)*, Denver, Colorado, May 2015. Acceptance rate 186/714=26%. [**Oral Presentation**]
- [C15] Chen Li^S, Yang Liu, Fei Liu, Lin Zhao, Fuliang Weng. “Improving Multi-document Summarization by Sentence Compression based on Expanded Constituent Parse Tree”. In *Proceedings of the 2014 Conference on Empirical Methods on Natural Language Processing (EMNLP)*, Doha, Qatar, October 2014. [Acceptance rate 225/790=28%]
- [C16] Fei Liu, Rohan Ramanath^S, Norman Sadeh, Noah A. Smith. “A Step Towards Usable Privacy Policy: Automatic Alignment of Privacy Statements”. In *Proceedings of the 25th International Conference on Computational Linguistics (COLING)*, Dublin, Ireland, August 2014. Acceptance rate 217/705=31%. [**Oral Presentation**]
- [C17] Rohan Ramanath^S, Fei Liu, Norman Sadeh, Noah A. Smith. “Unsupervised Alignment of Privacy Policies using Hidden Markov Models”. In *Proceedings of the 52nd Annual Meeting of the Association for Computational Linguistics (ACL)*, Baltimore, Maryland, June 2014. Acceptance rate 285/1123=25%.
- [C18] Joel R. Reidenberg, Travis Breaux, Lorrie Faith Cranor, Brian French, Amanda Grannis, James T. Graves, Fei Liu, Aleecia M. McDonald, Thomas B. Norton, Rohan Ramanath, N. Cameron Russell, Norman Sadeh, and Florian Schaub. “Disagreeable Privacy Policies: Mismatches between Meaning and Users’ Understanding”. In *Proceedings of 2014 TPRC: 42nd Research Conference on Communication, Information and Internet Policy (TPRC)*, Arlington, Virginia, September 2014.
- [C19] Rohan Ramanath^S, Florian Schaub, Shomir Wilson, **Fei Liu**, Norman Sadeh, and Noah A Smith. “Identifying Relevant Text Fragments to Help Crowdsource Privacy Policy Annotations”. In *Proceedings of the Second AAAI Conference on Human Computation and Crowdsourcing (HCOMP)*, Works-in-Progress, Pittsburgh, Pennsylvania, 2014
- [C20] Norman Sadeh, Alessandro Acquisti, Travis D. Breaux, Lorrie Faith Cranor, Aleecia M. McDonald, Joel Reidenberg, Noah A Smith, Fei Liu, N. Cameron Russell, Florian Schaub, Shomir Wilson, James T. Graves, Pedro Giovanni Leon, Rohan Ramanath, and Ashwini Rao. “Towards Usable Privacy Policies: Semi-automatically Extracting Data Practices From Websites’ Privacy Policies”. In *Symposium on Usable Privacy and Security (SOUPS)*, Menlo Park, California, July 2014.
- [C21] Chao Shen^S, Fei Liu, Fuliang Weng, and Tao Li. “A participant-based approach for event summarization using Twitter streams”. In *Proceedings of the North American Chapter of the Association for Computational Linguistics (NAACL)*, Atlanta, Georgia, June 2013. [Acceptance rate 146/455=32%, **Oral Presentation**]
- [C22] Chen Li^S, Fei Liu, Fuliang Weng, and Yang Liu, “Document Summarization via Guided Sentence Compression”. In *Proceedings of the 2013 Conference on Empirical Methods in Natural Language*

Processing (EMNLP), Seattle, Washington, October 2013. Acceptance rate 205/772=27%.

- [C23] Fei Liu, Fuliang Weng, and Xiao Jiang^S. “A broad-coverage normalization system for social media language”. In *Proceedings of the 50th Annual Meeting of the Association for Computational Linguistics (ACL)*, Jeju Island, South Korea, July 2012. Acceptance rate 187/940=20%.
- [C24] Fei Liu, Fuliang Weng, Bingqing Wang, and Yang Liu, “Insertion, deletion, or substitution? Normalizing text messages without pre-categorization nor supervision”. In *Proceedings of the 49th Annual Meeting of the Association for Computational Linguistics (ACL)*, Portland, Oregon, June 2011. Acceptance rate 292/1146=25%. [**Oral Presentation**]
- [C25] Fei Liu, Yang Liu, and Fuliang Weng. “Why is ‘SXSX’ trending? Exploring multiple text sources for Twitter topic summarization”. In *Proceedings of the ACL Workshop on Language and Social Media, Portland, Oregon, June 2011*.
- [C26] Feifan Liu, Fei Liu, and Yang Liu. “Learning from Chinese-English parallel data for Chinese tense prediction”. In *Proceedings of the International Joint Conference on Natural Language Processing (IJCNLP)*, Chiang Mai, Thailand, November 2011. Acceptance rate 176/478=36%.
- [C27] Fei Liu and Yang Liu. “Exploring speaker characteristics for meeting summarization”. In *Proceedings of the 11th Annual Conference of the International Speech Communication Association (INTERSPEECH)*, Makuhari, Japan, September 2010. Acceptance rate 771/1324=58%.
- [C28] Yang Liu, Shasha Xie, and Fei Liu. “Using n-best recognition output for extractive summarization and keyword extraction in meeting speech”. In *Proceedings of the 2010 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, Dallas, Texas, March 2010. Acceptance rate 1356/2855=48%.
- [C29] Fei Liu and Yang Liu. “Using spoken utterance compression for meeting summarization: A pilot study”. In *Proceedings of the 2010 IEEE Workshop on Spoken Language Technology (IEEE SLT)*, Berkeley, California, December 2010.
- [C30] Fei Liu and Yang Liu. “From extractive to abstractive meeting summaries: Can it be done by sentence compression?” In *Proceedings of the 47th Annual Mtg. of the Association for Computational Linguistics (ACL)*, Singapore, August 2009. Acceptance rate 214/925=23%. [**Oral Presentation**]
- [C31] Feifan Liu, Deana Pennell, Fei Liu, and Yang Liu. “Unsupervised approaches to automatic keyword extraction using meeting transcripts”. In *Proceedings of the North American Chapter of the Association for Computational Linguistics (NAACL)*, Boulder, Colorado, June 2009. Acceptance rate 146/438=33%. [**Oral Presentation**]
- [C32] Fei Liu, Feifan Liu, and Yang Liu. “Automatic keyword extraction for the meeting corpus using supervised approach and bigram expansion”. In *Proceedings of the IEEE Workshop on Spoken Language Technology (IEEE SLT)*, Goa, India, December 2008.
- [C33] Fei Liu and Yang Liu. “What are meeting summaries? An analysis of human extractive summaries in meeting corpus”. In *Proceedings of the 9th SIGdial Workshop on Discourse and Dialogue (SIGDIAL)*, Columbus, Ohio, June 2008.
- [C34] Junkuo Cao, Lide Wu, Xuanjing Huang, Yaqian Zhou, and Fei Liu. “Using multiple combined ranker for answering definitional questions”. In *Proceedings of the 4th Asia Information Retrieval Symposium (AIRS)*, Harbin, China, January 2008.

Patent Applications

- [P1] “System And Method For Dialog-Enabled Context-Dependent and User-Centric Content Presentation,” with Fuliang Weng, Xu Kui, Lin Zhao, Zhe Feng, and Zhongnan Shen. U.S. Patent Application 15/104,695. Filed by Robert Bosch LLC, Jun. 2015
- [P2] “System and Method for Event Summarization Using Observer Social Media Messages,” with Fuliang Weng, Chao Shen, and Lin Zhao. U.S. Patent Application 14/105,233. Filed by Robert Bosch LLC, Dec 2013.
- [P3] “Broad-Coverage Normalization System for Social Media Language”, with Fuliang Weng. U.S. Patent Application 13/779,083. Filed by Robert Bosch LLC, Feb 2013. **Granted**, Oct. 2015.
- [P4] “Method and System for Text Message Normalization Based on Character Transformation and Web Data,” with Fuliang Weng. U.S. Patent App. 13/117,330. Filed by Robert Bosch LLC, May 2011.

Technical Reports

- [TR1] Norman Sadeh, Alessandro Acquisti, Travis Breaux, Lorrie Cranor, Aleecia M. McDonald, Joel Reidenberg, Noah A. Smith, **Fei Liu**, N. Cameron Russel, Florian Schaub, Shomir Wilson. “The Usable Privacy Policy Project: Combining Crowdsourcing, Machine Learning and Natural Language Processing to Semi-automatically Answer Those Privacy Questions Users Care About”. *Technical Report CMU-ISR-13-119*, Carnegie Mellon University.

INVITED TALKS

- [1] Incorporating Linguistic Structure into Neural Abstractive Summarization Systems. Adobe Systems Inc., San Jose, California. September 2018.
- [2] Incorporating Linguistic Structure into Neural Abstractive Summarization Systems. Bosch Research and Technology Center, Sunnyvale, California. September 2018.
- [3] Deep Learning for Natural Language Processing: Summarization and Language Vagueness. Faculty Networking Seminar, Tulane University. February 2017.
- [4] Deep Learning for Natural Language Processing: Summarization and Language Vagueness. Bosch Research and Technology Center, Palo Alto, California. January 2017.
- [5] Summarizing Information in Big Data: Algorithms and Applications. Florida Institute for Human and Machine Cognition (IHMC), Ocala, Florida. September 2016.
- [6] Toward Abstractive Summarization Using Semantic Representations. MIT Rising Stars in EECS An Academic Career Workshop, Cambridge, Massachusetts. November 2015.
- [7] Summarizing Information in Big Data: Algorithms and Applications. Computer Science Department, University of Central Florida. April 2015.
- [8] Summarizing Information in Big Data: Algorithms and Applications. CSEE Department, University of Maryland, Baltimore County. March 2015.
- [9] Summarizing Information in Big Data: Algorithms and Applications. Computer Science Department, City University of New York. March 2015.

- [10] Summarizing Information in Big Data: Algorithms and Applications. NLP+CL Seminar, Carnegie Mellon University. February 2015.
- [11] Automatic Summarization for Multiple Text Genres: Algorithms and Applications. CS Colloquium, University of Pittsburgh. November 2014.
- [12] Comprehending Social Media Text: Normalization and Summarization. Natural Language Processing Group, Columbia University, June 2013.
- [13] Future Research Directions for NLP. Student Research Workshop at NAACL. Invited panelist, with Yejin Choi, Micha Elsner, and Luke Zettlemoyer. June 2013.

PROFESSIONAL ACTIVITIES

Organization Committees

Area chair, The Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (**NAACL-HLT**), 2019

Demos co-chair, The Annual Meeting of the Association for Computational Linguistics (**ACL**), 2018

Area chair, The Conference on Empirical Methods in Natural Language Processing (**EMNLP**), 2018

Area chair, International Joint Conference on Natural Language Processing (**IJCNLP**), 2017

Area chair, Conference on Natural Language Processing and Chinese Computing (**NLPCC**), 2017

Workshop co-organizer, Workshop on New Frontiers in Summarization at EMNLP 2017

Session chair, The Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (**NAACL-HLT**), 2016

Area chair, China National Conference on Computational Linguistics (**CCL**), 2016

Workshop co-organizer, AAI 2016 Fall Symposium on Privacy and Language Technologies

Session chair, The Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (**NAACL-HLT**), 2015

Session chair, The Annual Conference of the Association for Computational Linguistics (**ACL**), 2015

Area chair, The Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (**NAACL-HLT**), 2015

Journal Referee

Journal of Artificial Intelligence Research, 2015, 2018

Transactions of the Association for Computational Linguistics, 2016

Computer Speech & Language, 2016

ACM Trans. on Asian and Low-Resource Language Information Processing, 2013–14, 2016, 2018

Computational Linguistics, 2015

Natural Language Engineering, 2013, 2014, 2016

IEEE Transactions on Knowledge and Data Engineering, 2014, 2015

ACM Transactions on Knowledge Discovery from Data, 2013, 2014

Speech Communication, 2013

ACM Transactions on Speech and Language Processing, 2012

Data & Knowledge Engineering Journal, 2011, 2012

IEEE Transactions on Audio, Speech and Language Processing, 2011, 2012

Conference Program Committees

Annual Meeting of the Association for Computational Linguistics (**ACL**), 2012 – 2018

Conference on Empirical Methods on Natural Language Processing (**EMNLP**), 2013, 2015 – 2018

International Conference on Computational Linguistics (**COLING**), 2018

Annual Conference on Neural Information Processing Systems (**NIPS**), 2015, 2016, 2018

European Chapter of the Association for Computational Linguistics (**EACL**), 2012, 2017

International Conference on Machine Learning (**ICML**), 2015 – 2017

AAAI Conference on Artificial Intelligence (**AAAI**), 2013, 2016, 2017, 2019

International Joint Conference on Artificial Intelligence (**IJCAI**) 2013, 2016

ACM International Conference on Information and Knowledge Management (**CIKM**), 2013, 2016

IEEE International Conference on Data Mining (**ICDM**) PhD Forum, 2015

ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD**) 2012 – 2015

International Conference on Acoustics, Speech, and Signal Processing (**ICASSP**) 2012, 2013

NAACL Student Research Workshop (SRW) 2013, 2015, 2016

AAAI Spring Symposium: Analyzing Microtext, 2013

Pacific-Asia Conference on Knowledge Discovery and Data Mining (**PAKDD**), 2013 – 2015

Asia Information Retrieval Societies Conference (AIRS), 2012

International Joint Conference on Natural Language Processing (**IJCNLP**), 2011

ACL Workshop on Automatic Summarization for Different Genres, Media, and Languages, 2011

Services to Government Agencies

Grant reviewer, CORE Programme, Luxembourg National Research Fund, 2018

Panelist and Ad-hoc reviewer, National Science Foundation, Directorate for Computer & Information Science & Engineering, Division of Information & Intelligent Systems, 2016

Grant reviewer, Government grant, Autonomous Province of Bolzano, Italy, 2015

Dissertation/Thesis Committees

Wencan Luo (Ph.D., University of Pittsburgh, defended in Spring 2017)

Xuhong Zhang (Ph.D., University of Central Florida, defended in Fall 2017)

Yicong Tian (Ph.D., University of Central Florida; defended in Fall 2018)

Awrad Mohammed Ali (Ph.D., University of Central Florida; expected N/A)

Navid Kardan (Ph.D., University of Central Florida; expected N/A)

Hao Hu (Ph.D., University of Central Florida; expected N/A)

Josiah Wong (Ph.D., University of Central Florida; expected N/A)

Mahlagha Sedgi (M.S., University of Central Florida; graduated in 2017)

Students supervised by Dr. Liu (@University of Central Florida)

Kristjan Arumae (01/16 – present), Ph.D. student [C5][C7]

Kaiqiang Song (08/16 – present), Ph.D. student [C1][C4]

Logan Lebanoff (01/17 – present), Ph.D. student [C1][C2][C3]

Sansiri Tarnpradab (10/15 – 12/16), Ph.D. student [C8], co-supervised with Kien Hua

Kexin Liao (01/16 – 05/18), M.S. student [C3][C12]. First employment: JD.com

Jongho Cha (01/16 – 05/16), M.S. student, Directed research.

Current employment: Ministry of National Defense (South Korea).

Ray Ruitao Yan (05/17 – 08/17), B.S. student, Purdue University, IOTREU Program.

Kevin Negy (08/16 – 12/16), B.S. student, Undergraduate research. Interned at Florida IHMC

Clayton Barham (05/16 – 12/16), B.S. student, Undergraduate research.

Nicole Fella (05/16 – 08/16), B.S. student [C12], Manhattan College, IOTREU Program.

Kylie McCarty (01/16 – 05/16), B.S. student, Undergraduate research.

Students supervised by Dr. Liu (@Carnegie Mellon University)

Eric Lee (01/14 – 05/14), B.S. student, Carnegie Mellon University

Project titled “Privacy policy visualization using JavaScript and D3.js”

First employment: Google Inc.

Rohan Ramanath (12/13 – 07/14), M.S. student [C16][C17][C19], Carnegie Mellon University

Project titled “Unsupervised alignment of privacy policies”

First employment: LinkedIn Corp.

Wencan Luo (10/14 – 05/17), Ph.D. student [J1][C10][C11], University of Pittsburgh

Dissertation titled “Automatic summarization for student reflective responses”

First employment: Google Inc.

Students supervised by Dr. Liu (@Bosch Research)

Chen Li (05/13 – 08/13), Ph.D. student [C15][C22], University of Texas at Dallas

Project titled “Automatic text summarization and applications”

First employment: Microsoft

Chao Shen (05/12 – 08/12, 05/13 – 08/13), Ph.D. student [C21], Florida International University

Project titled “Twitter event summarization research and system development”

First employment: Amazon, now at Google Inc.

Xiao Jiang (10/11 – 08/12), M.S. student [C23], Cambridge University

Project titled “Twitter text normalization and system prototyping”

First employment: Mobvoi Inc.