Mekuanint   Abebe

Se.mekuanint.abebe@gmail.com   Phone: +251 948737567   Addis Ababa   Dr
Web   https://sites.google.com/site/stephentzeinnwu   gulele, addis ababa, Ethiopia

Recent Experience for education

Addis Ababa university,   gulele, Addis Ababa, Ethiopia
- *Aug.   September 2018   –   February 2019*
  Taking the pre Engineering courses

Addis Ababa University,   Addis   Ababa, Ethiopia
- *Student   march. 2019   –   present*
  Center   for   Information   Technology   and   Scientific   Computing

Tilili General Preparatory and Higher School   Tilili,   Baharat,   Ethiopia
- *Univiversity Intrance Examination courses   september. 2016   –   Jun.   2018*
  Taking of the grade 11 and 12 pre college courses in this schoool
- *Adjunct   my high school education   Sept. 2014   –   Dec.   2015*
  Department   of   Medical   Informatics   and   Clinical Epidemiology

Tilili TVET,   MN,   Ethiopia
- *Research   Collaborator   Jan.   2015   –   Dec.   2017*
  Division   of   Biomedical   Statistics   and   Informatics
  - *Assistant   Professor   of   June   2012   –   Medical   Informatics   Aug.   2014*

    Mayo   Clinic   College of   Medicine
- *Research   Associate   July   2010   –   Aug.   2014*
  Division   of   Biomedical   Statistics   and   Informatics
  - *Instructor   of   MedicalInformatics   Dec.   2010   –   May   2012*

                    Mayo   Clinic   College of   Medicine

Trapit, Inc,   Portland,   OR,   USA

- *Natural LanguageProcessing Scientist*   *Aug. 2014 – Jan. 2016*

Education

University of Minnesota, Minneapolis, MN
- *Ph.D. Computer Science*   *June 2010*
  - Thesis: Vectorial Representations of Meaning for a Computational Model of Language Comprehension
  - Advisor: William Schuler
  - Committee: Daniel Boley, Charles Fletcher, Maria Gini, Guergana Savova
- *M.S. Electrical Engineering*   *May 2006*
  - Specialty: Signal Processing and Digital Communications
  - Advisor: Jaekyun Moon

Duke University, Durham, NC
- *B.S. Electrical Engineering*   *May 2004*
- *B.S. Biomedical Engineering*   *May 2004*

Publications

Peer-Reviewed Articles –Language Resources & Corpora
1. **Wu, Stephen T**, Sijia Liu, Yanshan Wang, Tamara Timmons, Harsha Uppili, Steven Bedrick, William Hersh, and Hongfang Liu. Intra-institutional EHR Collections for Patient-Level Information Retrieval. *Journal of the American Society for Information Science and Technology*. doi:10.1002/asi.23884. September 2017.
2. **Wu, Stephen T**, Chung-Il Wi, Sunghwan Sohn, Hongfang Liu, and Young J. Juhn. Iterative NLPassisted refinement for Clinical Annotations of Chronic DiseaseEvents. *Proceedings of the 10th Edition of its Language Resources and Evaluation Conference*. Potorož, Slovenia. 2016.
3. **Wu, Stephen T**, Tamara Timmons, Amy Yates, MeikunWang, Steven Bedrick, William Hersh, and Hongfang Liu. On Developing Resources for Patient-level Information Retrieval. *Proceedings of the 10th Edition of its Language Resources and Evaluation Conference*. Potorož, Slovenia. 2016.
4. Sohn S, Clark C, Halgrim SR, Murphy SP, Jonnalagadda SR, Wagholikar KB, **Wu ST**, Chute CG, Liu H. Analysis of cross-institutional medication description patterns in clinical narratives. *Biomed Inform Insights*. 6(Suppl 1):7-16. Epub 2013 Jun 24. 2013.

5. **Wu, Stephen**, Hongfang Liu, Dingcheng Li, Cui Tao, Mark Musen, Christopher Chute, and Nigam Shah. UMLS Term Occurrences in Clinical Notes: A Large-scale Corpus Analysis. *J Am Med Inform Assoc*. Published online first: 4 April, 2012.

6. Liu, Hongfang, Kavishwar Wagholikar, and **Stephen Tze-Inn Wu**. Using SNOMED CT to encode summary level data - a corpus analysis. *AMIA CRI*. San Francisco, CA. 2012.

Peer-Reviewed Articles – Computational Semantics

7. **Wu, Stephen T**, Vinod C Kaggal, Dmitriy Dligach, James J Masanz, Pei Chen, Lee Becker, Wendy W Chapman, Guergana K Savova, Hongfang Liu, Christopher G Chute. A common type system for clinical natural language processing. *J Biomed Sem*. 4:1. 2013.

8. **Wu, Stephen**, Dongqing Zhu, Ben Carterette, Hongfang Liu. MayoClinicNLP-CORE: Semantic representations for textual similarity. *Joint Conference on Lexical and Computational Semantics (*SEM)*. Atlanta, GA. 2013.

9. **Wu, Stephen T**. Computational Semantics in Clinical Text (editorial). *Biomedical Informatics Insights*. 2013:Suppl. 1 3-5.

10. Jonnalagadda SR, Li D, Sohn S, **Wu ST**, Wagholikar K, Torii M, Liu H. Coreference analysis in clinical notes: a multi-pass sieve with alternate anaphora resolution modules. *J Am Med Inform Assoc*. 19(5):867-74. 2012.

11. **Wu, Stephen**, and Hongfang Liu. Semantic Characteristics of NLP-extracted Concepts in Clinical Notes vs. Biomedical Literature. *Proceedings of the Annual AMIA Fall Symposium*. Washington DC. 2011.

12. **Wu, Stephen**, and William Schuler. Structured Composition of Semantic Vectors. *Proceedings of the International Conference on Computational Semantics*. Oxford, UK. 2011.

13. Schuler, William, **Stephen Wu**, and Lane Schwartz. A Framework for Fast Incremental Interpretation during Speech Decoding. *Computational Linguistics*, 35(3):313–343, MIT Press, 2009.

14. **Wu, Stephen**, Lane Schwartz, William Schuler. Exploiting Referential Context in Spoken Language Interfaces for Data-Poor Domains. In *Proceedings of the 2008 International Conference on Intelligent User Interfaces*, Canary Islands, Spain. 2008.

15. **Wu, Stephen**, Lane Schwartz, and William Schuler. Referential Semantic Language Modeling for Data-Poor Domains. In *Proceedings of the International Conference on Acoustics, Speech, and Signal Processing*, Las Vegas, Nevada. 2008.

Peer-Reviewed Articles – Information Extraction and Retrieval

16. **Wu, Stephen**, Andrew Wen, Yanshan Wang, Sijia Liu, and Hongfang Liu. Aligned-layer text search in clinical notes.

Proceedings of the 16th World Congress on Medicaland Health Informatics (MedInfo 2017). Hangzhou, China. 2017.

17. Wang, Yanshan, **Stephen** **Wu**, Dingcheng Li, Saeed Mehrabi, Hongfang Liu. A Part-Of-Speech term weighting schemefor biomedical information retrieval. *J Biomed Inform.* 63:379-389, Oct 2016.

18. **Wu,** **Stephen** **T**, Dongqing Zhu, Ben Carterette, Hongfang Liu. Using large clinical corpora for query expansion in text-based cohort identification. *J Biomed Inform*, *49:275–81*, June 2014*.*

19. **Wu,** **Stephen** **T**, Timothy Miller, James Masanz, Matt Coarr, Scott Halgrim, David Carrell,Cheryl Clark. Negation's not solved: Generalizability versus Optimizability in clinical natural language processing. *PLoS ONE.* 9(11), 2014.

20. Pathak,Jyotishman, Ashutosh Jadhav, Donna Andrews, Cristian Cocos, Alexander Fiksdal,
Ashok Kumbamu, Jennifer B McCormick, Laurie Nelson,Amit Sheth, and **Stephen**
Wu. Comparative Analysis of Online Health Information Search Behavior. *J Med Internet Res*. 16(7):e160. Jul 04, 2014.

21. Jonnalagadda S, Cohen T, **Wu** **S**, Liu H, Gonzalez G. Using empirically constructed lexical resources for named entity recognition. *Biomed Inform Insights*. 6(Suppl 1):17-27. 2013.

22. Sohn S, Torii M, Li D, Wagholikar K, **Wu** **S**, Liu H. A Hybrid Approach to Sentiment Sentence Classification in Suicide Notes. *Biomed Inform Insights*. 5(Suppl. 1):43-50; 2012.

23. Jonnalagadda, Siddhartha, Trevor Cohen, **Stephen** **Wu**, Graciela Gonzalez. Enhancing clinical concept extraction with distributional semantics. *Journal of Biomedical Informatics*. Published online first: 7 November, 2011. 45(1):129-40, Elsevier, 2012.

24. Sohn, Sunghwan and **Stephen** **Wu**. Dependency Parser-based Negation Detection in Clinical Narratives. *AMIA CRI*. San Francisco, CA. 2012.

Peer-Reviewed Articles – Medical Informatics

25. **Wu,** **Stephen,** Sijia Liu, Sunghwan Sohn, Sungrim Moon, Chung-il Wi, Young Juhn, Hongfang Liu. Modeling Asynchronous Event Sequences with RNNs. *Journal of Biomedical Informatics*. *,* 83:167-77. 2018.

26. Sohn, Sunghwan, Chung-Il Wi, **Stephen** **T.** **Wu**, Hongfang Liu, Euijung Ryu, Elizabeth Krusemark, Alicia Seabright, Gretchen A. Voge, Young J. Juhn. Ascertainment of Asthma Prognosis Using NaturalLanguage Processing from Electronic Medical Records. *J Allergy Clin Immun.*141(6):2292-2294.e3. 2018.

27. **Wu,** **Stephen** **T**, Young J Juhn, Sunghwan Sohn, Hongfang Liu. Patient-level Temporal Aggregation for Text-based AsthmaAscertainment. *J Am Med Inform Assoc.* 21(5):876-884, 2014.

28. Pathak, Jyotishman, ... **Stephen** **Wu**, Ning Zhuo, Christopher G Chute. Normalization and standardization of electronic health recordsfor high-throughput phenotyping: the SHARPn consortium. *J Am Med Inform Assoc.* 20:341-348. 2013.

29. **Wu, Stephen T**, Sunghwan Sohn, Ravikumar K.E., Kavishwar Wagholikar, Siddhartha R. Jonnalagadda, Hongfang Liu, Young J Juhn. Automated Chart Review for AsthmaCohort Identification using NaturalLanguage Processing: An Exploratory Study. *Ann Allergy Asthma Immunol.* Published online first: 12 Aug 2013.

30. Wagholikar KB, Boardman LA, Chaudhry R, Greenes RA, Wu Tsung-teh, Buehler SA, Larson DW, Sohn S, **Wu ST**, Kaggal VC, Liu H. Workflow-based Data Reconciliation for Clinical Decision Support: Case of Colorectal Cancer Screening and Surveillance. *AMIA CRI*. 2013.

31. Wagholikar, Kavishwar, Sunghwan Sohn, **Stephen Wu**, Vinod Kaggal, Sheila Buehler, Robert Greenes, Tsung-Teh Wu, David Larson, Hongfang Liu, Rajeev Chaudhry, Lisa Boardman. Clinical Decision Support for Colonoscopy Surveillance Using NaturalLanguage Processing. *IEEE HISB*. La Jolla, CA. 2012.

Peer-Reviewed Articles – Other

32. Schwartz, Lane, Chris Callison-Burch, William Schuler, and **Stephen Wu**. Incremental Syntactic Language Models for Phrase-based Translation. *Proceedings of the Association for Computational Linguistics*. Portland, Oregon. 2011.

33. **Wu, Stephen**, Asaf Bachrach, Carlos Cardenas, and William Schuler. Complexity Metricsin an Incremental Right-corner Parser. *Proceedings of the Association for Computational Linguistics*. Uppsala, Sweden. 2010.

34. Schuler, William, Tim Miller, Andrew Exley, and **Stephen Wu**. Dynamic Evidence Models in a DBN Phone Recognizer. In *Proceedings of the 9th International Conference on Spoken Language Processing*, Pittsburgh, Pennsylvania. 2006.

Workshop Articles

1. **Wu, Stephen**, Dongqing Zhu, Ben Carterette, Hongfang Liu. Using Discharge Summaries to Improve Information Retrieval in the Clinical Domain. *Proceedings of the CLEF eHealthEvaluation Lab*. Valencia, Spain. 2013.

2. **Wu, Stephen**, Dongqing Zhu, William Hersh, and Hongfang Liu. Clinical Information Retrieval with Split-layer Language Models. In *Proc ACM SIGIR Workshop on Health Search and Discovery (HSD)*. 2013.

3. **Wu, Stephen**, Kavishwar Wagholikar, Sunghwan Sohn, Vinod Kaggal, Hongfang Liu. Empirical Ontologies for Cohort Identification. *Text REtrieval Conference - MedicalRecords Track*. 2011.

4. **Wu, Stephen T**, Vinod C Kaggal, Guergana K Savova, Hongfang Liu, Dmitriy Dligach, Jiaping Zheng, Wendy W Chapman,

and Christopher G Chute. Generality and Reuse in a Common Type System for Clinical Natural Language Processing. *Proceedings of the First International Workshop on Managing Interoperability and compleXity in Health Systems*. Glasgow, Scotland. 2011.

5. **Wu, Stephen**, James Masanz, Ravikumar K.E., Hongfang Liu. Three Questions about Clinical Information Retrieval. *Text Retrieval Conference - Medical Records Track*. 2012.

Invited Presentations

- Distributional Semantics: Topical and Lexical. *Addis Ababa University, Department of Computer Science.* Addis Ababa, Ethiopia. 2017.
- Layered Language Representations in Text-related Tasks. *OHSU Center for Spoken Language Understanding Seminar.* Portland, OR. 2015.
- Patient-level Search in EHR Text with Natural Language Processing. *OHSU Department of Medical Informatics and Clinical Epidemiology Informatics Conference.* Portland, OR. 2015.
- Phenotyping with NLP. *Mayo Clinic Biomedical Informatics Webinar.* Rochester, MN. 2013.
- Meaning representations for Semantic Textual Similarity. *Mayo Clinic Biomedical Informatics Webinar.* Rochester, MN. 2013.
- Terms and Concepts in Clinical Notes: Large-scale Analysis and Application. *UTHealth School of Biomedical Informatics Research Seminar.* Houston, TX. 2012.
- UMLS Concepts and Terms in Clinical Notes: Large-scale Corpus Analysis. *National Center for Biomedical Ontology (NCBO) Webinar.* Palo Alto, California. 2011.

Poster and Podium Presentations

1. **Wu, Stephen T.**, Yanshan Wang, Sunghwan Sohn, Chung-il Wi, Elizabeth Krusemark, Hongfang Liu, Young J. Juhn. Probabilistic Population-level Modeling of Disease Event Timelines. *AMIA Annu Symp Proc.* Chicago. 2016.
2. **Wu, Stephen**, Allison Sliter, Meikun Wang, Tamara Timmons, and Steven Bedrick. Restoring line breaks in Epic-derived clinical notes. *AMIA Annu Symp Proc.* Chicago. 2016.
3. Timmons, Tamara, William Hersh, and **Stephen Wu**. Development of Test Topics for Cohort Identification. *AMIA Annu Symp Proc.* Chicago. 2016.
4. **Wu, Stephen**, Steven Bedrick, William Hersh. Searching the EHR with patient-level evidence. *OHSU Research Week.* 2016.
5. **Wu, Stephen**, Steven Bedrick, William Hersh. Searching for on-demand patient cohorts from EHR text. *OHSU Research Week.* 2015.

6. **Wu ST**, Miller T, Masanz J, Coarr M, Halgrim S, Carrell D, Harris D, Clark C. Negation's not solved: Reconsidering negation annotation and evaluation. *AMIA Annu Symp Proc.* Washington DC. 2013.

7. Sohn S, Murphy SP, Halgrim S, Jonnalagadda SR, Wagholikar K, **Wu ST**, Chute CG, Liu H. Systematic Analysis of Cross-Institutional Medication Description Patterns in Clinical Notes. *AMIA CRI.* San Francisco, CA. 2013 Mar.

8. Hongfang L, Bielinski SJ, Sohn S, Murphy S, Wagholikar KB, Jonnalagadda SR, Ravikumar KE, **Wu ST**, Kullo IJ, Chute CG. An information extraction framework for cohort identification using electronic health records. *AMIA CRI.* Nov. 2013.

9. **Wu S**, Wieland M, Kaggal V, Liu H, Chute C. Tracking Immigrant Health with Natural Language Processing. *AMIA Annu Symp Proc.* Chicago, IL. 2012.

10. **Wu, Stephen T**, Young J Juhn, Sunghwan Sohn, Ravikumar Komandur-Elayavilli, Kavishwar Wagholikar, Siddhartha Jonnalagadda, Hongfang Liu. Automated Chart Review for Asthma Cohort Identification using Natural Language Processing. *AMIA Annu Symp Proc.* Chicago, IL. 2012.

11. **Wu S**, Ravikumar KE, Liu H. Enabling Medical Experts to Navigate Clinical Text for Cohort Identification. *Strategic Health IT Advanced Research Projects - Area 2 (SHARPn) Summit.* 2012.

12. **Wu, Stephen**, Hongfang Liu, Dingcheng Li, Cui Tao, Mark Musen, Christopher Chute, and Nigam Shah. UMLS Term Occurrences in Clinical Notes: A Large-scale Corpus Analysis. *AMIA CRI*, journal-eligible. San Francisco, CA. 2012.

13. **Wu, Stephen**, Sunghwan Sohn, Kavishwar Wagholikar, Sheila Buehler, Lisa Boardman. Systematizing Colonoscopy Follow-up Recommendations. *AMIA CRI*, San Francisco, CA. 2012.

14. Liu, Hongfang, Manabu Torii, **Stephen Wu**, Vinod Kaggal, Christopher Chute. Modeling UIMA Type System Using Web Ontology Language - Towards Interoperability among UIMA NLP Tools. *AMIA CRI*, San Francisco, CA. 2012.

Research Grants

Active

- *U01 TR02062 (Liu)*
  $1,384,918 *Sept. 2017 – Aug. 2022*
  Open Health Natural Language Processing Collaboratory Role: Co-I

Previous

- *1 R01 LM011934 (Liu, Wu)* $376,327 *Sept. 2014 – July 2019*
  Semi-structured Information Retrieval in Clinical Text for Cohort Identification
  Role: PI (Co-PI Liu)

- *1 R21 AI116839 (Juhn, Wu)* $198,750 *Jan. 2015 – Dec. 2016*
  Enhanced Ascertainment of Asthma Status Via Natural Language Processing
  Role: PI (Co-PI Juhn)

- *1 R01 LM011369-01A1 (Shah), NIH* $317,288 *Sept. 2013 – Aug. 2017*
  Methods for generalized ontology terms enrichment analysis
  Role: Co-I

- *1 R01 GM102282-1 (Liu), NIH/NIGMS* $508,543 *Apr. 2013 – Mar. 2017*
  NLP for Clinical and Translational Research Role: Co-I

- *HG 04028 (Chute – Site PI), NHGRI* $508,543 *Sept. 2010 – July 2015*
  National Center for Biomedical Ontology (CaBIO with Stanford)
  Role: Co-I

- *Mayo Clinic NIH Relief Grant (Wu)* $62,500 *Sept. 2013 – Aug. 2014*
  Enhanced Ascertainment of Asthma Status Via NLP
  Role: PI (Co-PI Juhn)

- *90TR000201-4 (Chute), DHHS/ONC* $3,074,952 *Apr. 2010 – Mar. 2014*
  SHARP Area 4: Secondary Use of EHR Data
  Role: Co-I

- *NSF 0845523-4 (Liu), NSF/ABI* $139,091 *Aug. 2009 – July 2014*
  NLP for biological knowledge management
  Role: Research Associate

Teaching Experience

- *Addis Ababa University, Addis Ababa, Ethiopia*
  ITSC-562/5C22 Social Network Analysis *Feb. 2018 – Jun. 2018*
  • Lectured on graph theory, random graphs, information diffusion, and more

- Incorporated cultural anthropological insights into the classroom environment
  - *Oregon Health & Science University, Portland, OR*
  - CS 562/662 Natural Language Processing *Jan. 2016 – Jun. 2017*
    - Developed curriculum, presentation materials, and course policies
    - Pioneered an educational framework for collaborative technology (bit.ly/techied)
    - Lectured interactively on foundational NLP topics from parsing to semantics
    - Designed or modified programming assignments with peer grading
    - Mentored students on research projects
  - CS 555/655 Analyzing Sequences *Sept. 2016 – Dec. 2016*
    - Lectured on finite state machines, language models, Markov models, string algorithms
    - Oversaw teaching team and all evaluation (assignments, exams, peer reviews)
- *University of Minnesota, Minneapolis, MN*
  - CSCI 2011 Discrete Structures of Computer Science (TA) *Sep. 2009 – Dec. 2009*
    - Lectured reviews and led group-work oriented recitations
    - Tutored and advised individual students
    - Developed grading rubrics and tracked progress
  - GRAD 8101 Preparing Future Faculty class (Student) *Jan. 2009 – May 2009*
    - Discussed learner-centered approaches to course planning
    - Delivered lecture on basic programming
    - Team-taught on managing classroom dynamics
- *Duke University, Durham, NC* *Jan. 2002 – May 2003*
  - EE 62 Introduction to Electronic Devices (Laboratory TA)
    - Summarized lecture material and drew connections to laboratory work
    - Facilitated individual and group activities
    - Enforced standards of professionalism in writing reports

Service

Conference   Responsibilities
- Program   Committee.   Empirical   Methods   in   Natural Language   Processing   (EMNLP).   2016-2017.   ▪ Program   Committee.   European   Chapter   of   the   Association   for   Computational Linguistics   (EACL).2017.
- Area   Chair: *Semantic   Processing,   Distributional Semantics,   and   Compositionality.*   International   Conference   on   Computational   Linguistics   (COLING).   2016.
- Program   Committee.   Building   and   Evaluating   Resources   for   Biomedical   Text   Mining (BioTxtM).   2014,   2016.
- Program   Committee.   Clinical Natural Language   Processing   Workshop   (Clinical   NLP).   2016.
- Program   Committee.   Pacific Northwest   NLP   Workshop   (NW-NLP).   2016.
- Program   Committee.   IEEE   International   Conference   on   Healthcare   Informatics   (ICHI).   2013.   ▪ Program   Committee.   ACM   International   Health   Informatics   Symposium   (IHI).   2012.

Workshop   Organizing
- Computational Semantics   in   Clinical Text   (CSCT)*.*   Workshop   of   ACL   SIGSEM.   2013.

Conference   and   Workshop   Reviewing
- Empirical   Methods   in   Natural Language   Processing   (EMNLP).   2015,   2017.
- AMIA   Annual Symposium.   2011-2016.
- Annual meeting   of   the   ACL.   2014.
- ACM   International   Health Informatics   Symposium   (IHI).   2012.
- ACM   Workshop   on   Data   and   Text   Mining in   Biomedical   Informatics   (DTMBIO).   2011.
- IMIA   World   Congress   on   Medical   and   Health Informatics   (MEDINFO).   2013.
- International   Symposium   on   Languages   in   Biology and   Medicine   (LBM).   2011.
- International   Workshop   on   Managing   Interoperability   and   CompleXity   in   Health Systems   (MIXHS).   2011-2012.

Journal   Responsibilities
- Reviewer.   Journal of   Biomedical   Informatics.   2016-2018.
- Reviewer.   Journal of   the   Association   for   Information   Science   and   Technology.   2016-2017.
- Reviewer.   IEEE/ACM   Transactions   on   Computational Biology and   Bioinformatics.2017.
- Reviewer.   BMC   Bioinformatics.2013-2016.
- Reviewer.   Journal of   General   Internal   Medicine.   2016.
- Reviewer.   Artificial   Intelligence   in   Medicine.   2013-2014.
- Reviewer.   Journal of   the   American   Medical   Informatics   Association   (JAMIA).   2012-2014.

- Guest Editor. Biomedical Informatics Insights, Special Issue on Computational Semantics in Clinical Text. 2013.

Institutional Responsibilities
- Member. OHSU School of Medicine Graduate Faculty. 2016-2017.

Community & Professional Memberships

- *Apache SoftwareFoundation (ASF)* 2013 – *Present*
  Project Management Committee Member, Apache cTAKES
- *American MedicalInformatics Association (AMIA)* 2011 – *Present*
  NaturalLanguage Processing Working Group (NLP-WG)
- *Association for Computational Linguistics (ACL)* 2010 – *Present*
  Special Interest Group on Computational Semantics (SIGSEM)
  Special Interest Group on the Lexicon (SIGLEX)
  Special Interest Group on Biomedical NLP (SIGBIOMED)
- *Association for Computing Machinery(ACM)* 2013 – *Present*

  Special Interest Group on Information Retrieval (SIGIR)
- *American Public HealthAssociation (APHA)* 2012 – *2014*

  Health Informatics Information Technology group (HIIT)
- *Institute of Electrical and Electronics Engineers (IEEE)* 2004, 2008-2010

Mentorship

- Tamara Timmons, Oregon Health & Science University (Research Associate). Supervisor. 2015-2017.

- Andrew Wen, Portland State University (Undergraduate). OHSU Biomedical Informatics Master's Thesis Committee, OHSU Biomedical Informatics Summer Undergraduate Research Program Advisor. 2015-2017.
- Allison Sliter, Oregon Health & Science University (MS Candidate). Trapit Summer Internship Advisor. 2015.
- Meikun Wang, Oregon Health & Science University (MS Candidate). OHSU Summer Internship Advisor. 2015.
- Dongqing Zhu, University of Delaware (PhD Candidate). PhD Dissertation Committee Member; Mayo Clinic Internship Advisor. 2013-2014.
- Ashutosh Jadhav, Wright State University (PhD Candidate). Mayo Clinic Internship Consultant. 2013-2014.
- Karlo Malaga, University of Minnesota (Undergraduate). President's Distinguished Faculty Mentor Program. 2008.

Learning Interests

- **Natural Language Processing**; Computational Semantics; Clinical Natural Language Processing; Information Extraction & Retrieval; Ethics in Natural Language Processing
- **Machine Learning**: Artificial Intelligence; Deep Learning
- **Computer Science**: Social Network Analysis; Computer Programming and Data Structures; Discrete Math; Formal Languages; Linear Algebra; Algorithms
- **Linguistics**: Computational Linguistics; Field Methods; Phonetics