

# Yudong Liu

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## CONTACT INFORMATION

CF 483  
Computer Science Department  
Western Washington University  
Bellingham, WA 98225 USA

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## RESEARCH INTERESTS

Statistical Natural Language Processing, AI Fairness Education, Applications of Eye-tracking

## EDUCATION

**Simon Fraser University**, BC, Canada

Ph.D., Computer Science, 2009

**Jilin University**, Jilin, China

M.S., Computer Science, 2002

**Jilin University**, Jilin, China

B.S., Computer Science, 1999

## EMPLOYMENT

**Western Washington University**, Computer Science Department, Bellingham, WA, USA

*Professor*

September, 2023 -

*Associate Professor*

September, 2018 - August, 2023

*Assistant Professor*

September, 2013 - August, 2018

*Instructor*

September, 2010 - August, 2013

**Contextual Search**, BC, Canada *Consultant*

April - August 2010

**SAP Canada** *Localization Engineer*

November, 2007 - December, 2008

**Simon Fraser University**, School of Computing Science, BC, Canada

*Sessional Instructor*

May - August, 2007

**Axonwave Software Inc.**, Canada *Internship*

September - December, 2004

## TEACHING

- Classes taught during my appointment of Associate Prof. (Fall 2018 - Spring 2022)
  - CSCI 301 (Formal Languages & Functional Programming)
  - CSCI 305 (Analysis of Algorithms I)
  - CSCI 404 (Natural Language Processing)
  - CSCI 400 (Directed Independent Study for Undergrads)
  - CSCI 496 (Undergrad Research)
  - CSCI 573 (Computational Linguistics)
  - CSCI 590/591 (Grad Seminar I/II)
  - CSCI 692 (Research Experience)
- Classes taught during my appointment of Assistant Prof. (Fall 2013 - Spring 2018):
  - CSCI 145 (Computer Programming & Linear Data Structures)
  - CSCI 305 (Analysis of Algorithms I)
  - CSCI 345 (Object Oriented Design)
  - CSCI 400 (Directed Independent Study for Undergrads)
  - CSCI 404 (Natural Language Processing)
  - CSCI 496 (Undergrad Research)
  - CSCI 500 (Directed Independent Study for Grad Students)
  - CSCI 573 (Computational Linguistics)

- Classes taught during my appointment of Instructor:  
 CSCI 145 (Computer Programming & Linear Data Structures)  
 CSCI 211 (Discrete Structures & Functional Programming)  
 CSCI 227 (Computer Organization I)  
 CSCI 241 (Data Structures)  
 CSCI 347 (Computer Organization II)  
 CSCI 401 (Automata & Formal Language Theory)  
 CSCI 402 (Artificial Intelligence)  
 CSCI 410 (Programming Languages)  
 CSCI 510 (Automata & Formal Language Theory)  
 CSCI 512 (Computer Programming Languages)  
 CSCI 570 (Artificial Intelligence)

## RESEARCH

### REFEREED CONFERENCE PUBLICATIONS

1. S. Dobesh<sup>1</sup>, T. Miller<sup>2</sup>, P. Newman<sup>2</sup>, **Y. Liu**, Y. Elglaly<sup>3</sup>, *Towards Machine Learning Fairness Education in a Natural Language Processing Course*. Proceedings of the 54th ACM Technical Symposium on Computer Science Education (SIGCSE TS 2023).
2. G. Wang<sup>1</sup>, **Y. Liu**, J. Hearne<sup>3</sup>, *Few-shot Learning for Sumerian Named Entity Recognition*. Proceedings of the Third Workshop on Deep Learning for Low-Resource Natural Language Processing (DeepLo) @ NAACL 2022 (2022 Annual Conference of the North American Chapter of the Association for Computational Linguistics), page 136-145. July 2022, Seattle, WA, USA.
3. P. Newman<sup>2</sup>, **Y. Liu**, *Generating Descriptive and Rules-Adhering Spells for Dungeons & Dragons Fifth Edition*. Proceedings of the 9th Games and Natural Language Processing Workshop @ LREC 2022 (13th Edition of Language Resources and Evaluation Conference), page 54-60. The European Language Resources Association. June 2022, Marseille, France.
4. A. Tseng<sup>2</sup>, S. Jung<sup>2</sup>, Y. Elglaly<sup>3</sup>, **Y. Liu**, S. Ludi<sup>4</sup>, *Exploration on Integrating Accessibility into an AI course*. Proceedings of the 53rd ACM Technical Symposium on Computer Science Education (SIGCSE TS 2022), page 864-870. March 2 – 5, 2022, Providence, RI, USA.
5. **Y. Liu**, Y. Jiang<sup>1</sup>, J. Devenere<sup>2</sup>, *Using Deep Learning for Fusion of Eye and Mouse Movement based User Authentication*. The 2020 IEEE International Joint Conference on Biometrics (IJCB 2020), page 1-10, doi: 10.1109/IJCB48548.2020.9304926. Sept 28 – Oct 1, 2020, Houston, TX, USA.
6. J. Hearne<sup>3</sup>, A. Connor<sup>1</sup>, **Y. Liu**, D. Dixon<sup>2</sup>, D. F. Ritchie<sup>2</sup>. *Dating Tablets in the Garshana Corpus*. Proceedings of the Thirtieth International Florida Artificial Intelligence Research Society Conference (Short Paper). May 22-24, 2017. Marco Island, Florida, USA. AAAI Press, 2017.
7. J. Rose<sup>1</sup>, **Y. Liu**, A. Ahmed<sup>4</sup>. *Biometric Authentication using Mouse and Eye Movement Data*. 2nd International Workshop on Bio-inspired Security, Trust, Assurance and Resilience (BioSTAR 2017) co-located with 38th IEEE Symposium on Security and Privacy (IEEE S&P 2017). May 25, 2017. San Jose, CA, USA.
8. H. Lu<sup>1</sup>, J. Rose<sup>1</sup>, **Y. Liu**, A. Ahmed<sup>4</sup>, L. Hou<sup>2</sup>. *Combining Mouse and Eye Movement Biometrics for User Authentication*. International Workshop on Information Security, Assurance, and Trust (I-SAT 2016). June 9-11, 2016, Vancouver, Canada.

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<sup>1</sup>WWU Grad Student

<sup>2</sup>WWU Undergrad Student

<sup>3</sup>WWU Internal Collaborator

<sup>4</sup>External Collaborator

9. **Y. Liu**, J. Hearne<sup>3</sup>, B. Conrad<sup>1</sup>. *Recognizing Proper Names in UR III Texts through Supervised Learning*. Proceedings of the Twenty-ninth International Florida Artificial Intelligence Research Society Conference. May 16-18, 2016, Key Largo, Florida, USA. AAAI Press, 2016.
10. **Y. Liu**, C. Burkhart<sup>2</sup>, J. Hearne<sup>3</sup> and L. Luo<sup>1</sup>. *Enhancing Sumerian Lemmatization by Unsupervised Named-Entity Recognition*. The 2015 Conference of the North American Chapter of the Association for Computational Linguistics – Human Language Technologies (NAACL-HLT 2015), May 31-June 5, 2015, Denver, Colorado, USA.
11. L. Luo<sup>1</sup>, **Y. Liu**, J. Hearne<sup>3</sup>, and C. Burkhart<sup>2</sup>. *Unsupervised Sumerian Personal Name Recognition*. Proceedings of the Twenty-eighth International Florida Artificial Intelligence Research Society Conference, May 18-20, 2015, Hollywood, Florida, USA. AAAI Press, 2015.
12. Y. Li<sup>4</sup>, **Y. Liu**, H. Zhang<sup>4</sup>. *Cross-Boundary Enterprise Security Monitoring*. International Conference on Computational Problem-solving (ICCP), October 20-22, 2012, Chengdu and Leshan, China.
13. Y. Li<sup>4</sup>, Y. Shen<sup>4</sup>, **Y. Liu**. *Utilizing Content Delivery Network in Cloud Computing*. International Conference on Computational Problem-solving (ICCP), October 20-22, 2012, Chengdu and Leshan, China.
14. **Y. Liu**, A. Sarkar. *Exploration of LTAG-spinal Formalism and its Treebank for Semantic Role Labeling*. Workshop on Grammar Engineering Across Framework, Singapore, August 2-6, 2009
15. **Y. Liu**, A. Sarkar. *Experimental Evaluation of LTAG-Based Features for Semantic Role Labeling*. Joint Meeting of the Conference on Empirical Methods on Natural Language Processing (EMNLP) and the Conference on Natural Language Learning (CoNLL), Prague, Czech, June 23-30, 2007.
16. **Y. Liu**, Z. Shi, and A. Sarkar. *Exploiting Rich Syntactic Information for Relation Extraction from Biomedical Articles*. Human Language Technologies: The 8th Annual Conference of the North American Chapter of the Association for Computational Linguistics, Rochester, U.S.A, April 22-27, 2007.
17. Z. Shi, G. Melli, Y. Wang, **Y. Liu**, B. Gu, M. Kashani, A. Sarkar and F. Popowich. *Answering Summarization of Multiple Biomedical Documents*. Canadian AI 2007, Montreal, Quebec. May 28-30, 2007.
18. **Y. Liu**, A. Sarkar. *Using LTAG-based Features for Semantic Role Labeling*. The 8th International Workshop on Tree Adjoining Grammar and Related Formalisms, Sydney, Australia, July 15-18, 2006
19. G. Melli, Z. Shi, Y. Wang, **Y. Liu**, A. Sarkar and F. Popowich. *Description of SQUASH, the SFU Question Answering Summary Handler for the DUC-2006 Summarization Task*, Document Understanding Conference, New York City, NY, June 8-9, 2006
20. G. Melli, Y. Wang, **Y. Liu**, M. Kashani, Z. Shi, A. Sarkar and F. Popowich. *Description of SQUASH, the SFU Question Answering Summary Handler for the DUC-2005 Summarization Task*, DUC-2005, Vancouver, B.C., October 2005

## REFEREED JOURNAL PUBLICATIONS

1. J. Rose<sup>1</sup>, **Y. Liu**, A. Ahmed<sup>4</sup>. *Biometric Authentication using Mouse and Eye Movement Data*. Journal of Cyber Security and Mobility, pp. 1-16. River Publishers. Vol 6 Issue 1, January 2017.

## BOOK CHAPTERS

1. **Y. Liu**, J. Hearne<sup>3</sup>, *Towards Archival Reconstruction of Ur III Cuneiform Tablets*. in *Ur in the Twenty-First Century CE*. Proceedings of the 62nd Rencontre Assyriologique Internationale at Philadelphia, July 11–15, 2016. Chapter 20. pp. 309-314. Grant Frame, Joshua Jeffers, Holly Pittman (Editors). Publisher: Eisenbrauns. 2021 Feb 3. ISBN-13: 978-1646021062. ISBN-10: 1646021061.
2. **Y. Liu** *Natural Language Processing in Data Analytics*. in *Data Analytics and AI* (1st ed.). Chapter 7. pp. 117-132. Liebowitz, J. (Editor), Auerbach Publications, Aug. 2020. <https://doi.org/10.1201/9781003019855>. ISBN-13: 978-0367522001. ISBN-10: 0367522004.
3. A. Ahmed<sup>4</sup>, **Y. Liu**. *Cognitive Biometrics for User Authentication*. in *Biometric-Based Physical and Cybersecurity Systems*. pp 387–399. Obaidat S. Mohammad, Issa Traore, Isaac Woungang (Editors). Springer International Publishing. Oct. 2018. Print ISBN: 978-3-319-98733-0. Electronic ISBN: 978-3-319-98734-7.
4. H. Lu<sup>1</sup>, J. Rose<sup>1</sup>, **Y. Liu**, A. Ahmed<sup>4</sup>, L. Hou<sup>2</sup>. *Combining Mouse and Eye Movement Biometrics for User Authentication*. in *Information Security Practices - Emerging Threats and Perspectives*. pp.55-71. Issa Traore, Ahmed Awad, Isaac Woungang (Editors), Springer, Jan. 2017. Print ISBN: 978-3-319-48946-9. Online ISBN: 978-3-319-48947-6.
5. **Y. Liu**. *Semiring Parsing*, invited chapter in *Fuzzy Semirings with Applications to Automata Theory*. The book is part of the *Studies in Fuzziness and Soft Computing* book series (STUDFUZZ, volume 278). Javed Ahsan, John N. Mordeson, Muhammad Shabir (Editors), Springer-Verlag, 2012. Print ISBN:978-3-642-27640-8. Online ISBN: 978-3-642-27641-5.

## REFEREED POSTERS

1. **Y. Liu** *Preliminary Experiments on Generating Sumerian Word Embeddings*. The 33rd International Conference of the Florida Artificial Intelligence Research (FLAIRS 2020), Poster abstract.
2. **Y. Liu**, Y. Jiang<sup>1</sup>, J. Devenere<sup>2</sup> *Using Stacked BDLSTMs for Fusion of Eye and Mouse Dynamics based User Authentication*. The 14th Women in Machine Learning Workshop (WiML 2019). December 9th, 2019. Co-located with NeurIPS in Vancouver, BC, Canada.
3. S. Anderson<sup>2</sup>, **Y. Liu**. *Functionality of the Bei Construction in Chinese: Comparing Long v.s. Short Passives in Emotional Polarity*. The 18th Chinese Lexical Semantics Workshop (CLSW2017). May 18-20, 2017. Leshan, Sichuan, China.
4. **Y. Liu**, C. Burkhart<sup>2</sup>, J. Rose<sup>1</sup>. *Personal Name Recognition in Sumerian Texts Using a Sign-based HMM*. Proceedings of the Twenty-ninth International Florida Artificial Intelligence Research Society Conference. May 16-18, 2016, Key Largo, Florida, USA, 2016.

## MY RECENT TALKS AND PRESENTATIONS AT REFEREED CONFERENCES/VENUES

1. *Few-shot Learning for Sumerian Named Entity Recognition*, Deep-Lo NLP Workshop @ NAACL, July, 24, 2022.
2. *Using Deep Learning for Fusion of Eye and Mouse Movement based User Authentication*, IEEE International Joint Conference on Biometrics (IJCB), Oct 1, 2020.
3. *Using Stacked BDLSTMs for Fusion of Eye and Mouse Dynamics based User Authentication*. Women in Machine Learning (WiML) Workshop @ NeurIPS, Dec 9, 2019.
4. *Dating Tablets in the Garshana Corpus*. The Thirtieth International Florida Artificial Intelligence Research Society Conference (FLAIRS). May 22-24, 2017.

5. *Recognizing Proper Names in UR III Texts through Supervised Learning*. The Twenty-ninth International Florida Artificial Intelligence Research Society Conference. May 16-18, 2016.
6. *Proper Names Recognition and Dating Tablets of the Ur III Period*. 62nd Rencontre Assyriologique Internationale (RAI): Ur in the Twenty-First Century, University of Pennsylvania, July 14, 2016. Co-presenter: James Hearne.
7. *Unsupervised and Supervised Learning of Sumerian Proper Names Recognition – a Two-stage Approach*. The 4th Pacific Northwest Regional Natural Language Processing Workshop, Seattle, May 20, 2016.
8. *Enhancing Sumerian Lemmatization by Unsupervised Named-Entity Recognition*. The 2015 Conference of the North American Chapter of the Association for Computational Linguistics – Human Language Technologies (NAACL-HLT 2015), Denver, Colorado, USA. May 31-June 5, 2015.
9. *Latent SVMs for Semantic Role Labeling using LTAG Derivation Trees* (Best Student Presentation Award). The Pacific Northwest Regional NLP Workshop (NW-NLP 2010), Microsoft Research, Redmond, WA, USA, April 23, 2010.

#### TALKS AND POSTER AT NON-REFEREED CONFERENCES/VENUES (EITHER ME OR MY STUDENTS AS PRESENTERS)

1. *Generating Descriptive and Rules-Adhering Spells for Dungeons & Dragons Fifth Edition*. The 9th Games and Natural Language Processing Workshop @ LREC 2022, June 25, 2022. Presenter: Pax Newman.
2. *Visualizing Mouse Movement and Eye Movement in User Authentication Interface*.
  - Grace Hopper Conference, 2016. Accepted into “**ACM Student Research Competition**”. Oct 19-21, 2016, Houston, TX. Presenter: Leon Hou.
  - The Scholars Week All-University Poster Competition, May 19-20, 2016, WWU. Presenters: Leon Hou, Chloe Yugawa.
3. *Combining Mouse and Eye Movement Biometrics for User Authentication*. The 5th Annual Graduate Student Conference, May 21, 2016, WWU. “**Outstanding Poster Presentation Award**”. Presenter: Jamison Rose.
4. *A Survey of Computational Linguistic Research at Western*. Linguistics Program, WWU, 2016 Let’s Talk Series, Feb 18, 2016. Presenter: James Hearne, Yudong Liu, and Brian Hutchinson.
5. *A Second-Language Learning Environment Aided by Eye-tracking*. The Scholars Week All-University Poster Competition, May 14-15, 2015, WWU. Presenters: Ariel Cooper, Kyle McCormick.
6. *Preliminary Study into Named Entities Recognition from Cuneiform Tablets*.
  - The 3rd Pacific Northwest Regional Natural Language Processing Workshop, Microsoft Research, Redmond, WA. April 24, 2014. Presenters: C. Burkhart and B. Toner. Advisors: Yudong Liu and James Hearne.
  - the Scholars Week All-University Poster Competition. May 15-16, 2014, WWU. “**Outstanding Poster Award**” (Ratio 16/150). Presenters: C. Burkhart and Felicity Brewer.

#### STUDENTS SUPERVISION

##### Graduate Students (me as research advisor)

- Jordan Birnel: *Cross-lingual Transfer Learning on the Complex Word Identification Task*. Graduated in Fall 2022.
- Guanghai Wang: *Few-shot Learning on Sumerian Named Entity Recognition*. Graduated in Spring 2022.
- Yusheng Jiang: *Eye-tracking for User Authentication using Deep Learning*. Graduated in Summer 2019.

- Jamison Rose: *Eye-tracking for User Authentication*. Graduated in Spring 2016.
- Hongwei Lu: *Eye-tracking for User Authentication*. Graduated in Winter 2016.
- Bryan Connad: *Information Extraction from Ur III Texts*. Graduated in Summer 2015. \*Co-advisor: James Hearne.
- Liang Luo: *Information Extraction from Ur III Texts*. Graduated in Fall 2014. \*Co-advisor: James Hearne.

#### Graduate students and Undergraduate Students (working with me)

- Hansel Guzman-Soto (Spring 2022 - current): *An Information Extraction (IE) Framework for Sumerian Text*.
- Pax Newman (Winter - Spring 2022): *Generating Descriptive and Rules-Adhering Spells for Dungeons & Dragons Fifth Edition*.
- Sam Dobesh (\*grad student, Winter - Summer 2022), Tyler Miller (Spring 2022 - current), Pax Newman (Summer 2022): *Towards Machine Learning Fairness Education in a Natural Language Processing Course*. \*Co-advisor: Yasmine Elglaly.
- Christopher Drazic, Ivan Chuprinov (\*grad students, Spring 2021): *Annotations of Facebook Comments for the CWI task*.
- Henry II, Greg Lindman, Nicholas Uhlhorn, Simon Ellis, Elliot Fisk (CSCI 49X Senior Project Group, Winter - Spring 2022): *Social Network Analysis of Sumerian Text*. \*Me participating in the project.
- Sam Jung (Spring 2021 - Winter 2022), Ann Tseng (Spring 2021 - Summer 2021): *Exploration on Integrating Accessibility into an AI course*. \*Co-advisor: Yasmine Elglaly
- Isaiah Pellerin (Fall 2021): *SemEval 2022 shared task on Patronizing and Condescending Language Detection*.
- Carson Vandegriffe, Will Rasmussen (Spring 2021, Fall 2021): *Feature Analysis on Complex Word Identification*.
- Sam Jung, Aaron Miller (Winter 2021): *Making up a Text Classification Programming Assignment*.
- Hansel Guzman-Soto, Hannah Buzard (Fall 2020, Winter 2021): *Complex Word Identification from Facebook Comments*.
- Martin Smith, Ryan Taylor, Christopher Drazic (CSCI 49X Senior Project Group, Winter - Fall 2020): *CS Graduate Program Management System*. \*Co-advisor: Filip Jagodzinski.
- Trevor Marcus (Fall 2019): *Keyword Extraction from Facebook Comments*.
- Rachel Edwards, Alexia Scriven Spring - Summer 2017: *Collocation Error Identification and Analysis of Chinese English learners*.
- Sophie Anderson, Lai Yan Yung (Spring 2017): *Chinese Sentiment Lexicon Construction and Classification*.
- Michael Siderius, Rimika Majumdar (Spring 2017): *Harassment Detection on Social Media*.
- Connor Freitas (Winter-Spring 2017): *Improving Chinese to English Machine Translated Messages through Automatic Post-Editing*.
- Andy Brown et. al. (CSCI 49X Senior Project Group, Spring, 2016 - Winter, 2017), Ian Fisk, Alexia Scriven (Spring 2016): *Information Extraction from Garshana Corpus*. \*Co-advisor: James Hearne
- Leon Hou, Chloe Yugawa (Fall 2015-Spring 2016): *Biometric Authentication Using Mouse and Eye Dynamics*.
- Ariel Cooper, Zachary Dunnewind, Kyle McCormick (CSCI 49X Senior Project Group, Winter - Spring 2015): *A Second-Language Learning Environment Aided by Eye-tracking*.
- Felicity Brewer et. al. (CSCI 49X Senior Project Group, Winter-Spring 2014): *Unsupervised Named Entity Recognition from Ur III texts*. \*Co-advisor: James Hearne

#### GRANT AND TEACHING PROPOSAL EFFORTS

- ACM SIGCSE Special Project Grants (the round of Nov 2021) on *Teaching Accessibility for Fairness in AI Courses*, \$4,740. First author (at submission and acceptance). Co-PI. Acceptance rate: 22% (4 out of 18).

- ACM SIGCSE Special Project Grants (the round of May 2021), \$5,000. CO-PI. Rejected.
- National Endowment Humanities (NEH) Digital Humanities Advancement Grants Level I, June 2017 (*The Social Network and Physical Topography of an Early Complex State: the Ur III Kingdom through the Drehem Archives*). Amount: \$40,001-\$75,000. PI. Rejected.
- Honors Program Proposal, Winter 2016 (*Natural Language Processing for Social Media*): Rejected.
- Grants-in-Aid, WWU, Spring, 2014 (*Using Eye-tracking Data for Automatic Document Summarization*): Rejected.
- Research and Creative Opportunities for Undergraduates, WWU (Connor Freitas. Advisor: Yudong Liu), Feb 2017 (*Improving Chinese to English Machine Translated Messages through Automatic Post-Editing*). Granted. Amount: \$400.

## SERVICE

### PROFESSIONAL SERVICES

- Co-organizers, 1st Workshop of Ancient Language Processing at 13th RANLP Conference.
- Reviewer, SIGCSE TS 2021 (0+3), 2022 (3+4), 2023 (6+3).<sup>1</sup>
- Reviewer, DSH (Digital Scholarship in the Humanities), 2022 (1).
- Program Committee, Reviewer, 17th Workshop on Innovative Use of NLP for Building Educational Applications (BEA Workshop @ NAACL) 2022 (2).
- Chair of Keynote Session, IEEE-COIN Conference. Aug. 23, 2021.
- Program Committee, Reviewer, IEEE-COIN 2019 (1), 2020 (1), 2021 (2), 2022 (2).
- Reviewer, CMD-IT/ACM Richard Tapia Conference (Richard Tapia Celebration of Diversity in Computing Conference), 2021 (4).
- Reviewer, Frontiers of Information Technology & Electronic Engineering, 2021 (1).
- Reviewer, MDPI (Applied Sciences; Computers; Electronics; Future Internet; Information; Inventions; Mathematics; Sensors). 2018-2022 (30+)
- Reviewer, JASIST (Journal of the Association for Information Science and Technology), 2020 (1).
- Reviewer, NCWIT Seed Fund, Fall 2020 (3).
- Reviewer, Women in Machine Learning (WiML) Workshop. 2019 (3).
- Participant of NCWIT SUMMIT, Nashville, Tennessee, May 14-16, 2019.
- Program Committee Member of FLAIRS-31, 2018 (3), FLAIRS-32, 2019.
- Chair of FLAIRS-31 Special Track of Artificial Intelligence in Digital Humanities, 2018.
- Editor of Special Issue “AI for Digital Humanities” of Information (ISSN 2078-2489), 2018.
- Program Committee Member of 9th International Conference of Digital Archives and Digital Humanities (DADH), 2018.
- Program Committee Member of The second edition of the workshop on “Corpus-based Research in the Humanities” (CRH), 2018.
- Program Committee Member of International Conference on Intelligent, Secure, and Dependable Systems in Distributed and Cloud Environments (ISDDC 2017).
- Chair of FLAIRS-30 Special Track of Natural Language Processing of Ancient and other Low-resource Languages, 2017.
- Reviewer of FLAIRS-30, 2016-2017.
- Track Chair of FLAIRS-29 Special Track of Natural Language Processing of Ancient Languages, 2016
- Program Committee Member of International Workshop on Information Security, Assurance, and Trust (I-SAT 2016)
- Reviewer of I-SAT 2016
- Reviewer of Journal of Computational Intelligence, 2016
- Reviewer of Journal of the Association for Information Science and Technology, 2016, 2020

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<sup>1</sup>The first number is the number of long papers, and the second number is the number of posters.

- Reviewer, Journal of Intelligent and Fuzzy Systems, 2012
- Reviewer, AAAI, 2010

## UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES

- CS Faculty Search Committee, Fall 2021 - Winter 2022.
- CS MS Program Expansion - Strategic Plan Working Group, Fall 2021 - Winter 2022.
- CSE Personnel Committee (Participating in the PTR Review as CS representative), Spring 2021.
- CS Chair Search Committee, Fall 2019 - Winter 2020.
- WWU Academic Working Group of Western Global Pathway Program, Summer 2019.
- CS Graduate Program Director, Chair of Graduate Committee (Fall 2018 - summer 2022).
- CS/SMATE Faculty Search Committee, Fall 2018 - Winter 2019.
- CSE Equity, Inclusion, and Diversity Committee (Fall 2017- Spring 2019).
- WWU Graduate Council (Fall 2016-2018)
- CS Ed Search Committee (Fall 2016 - Winter 2017)
- CS Student Centered Learning Committee (Fall 2016 - Winter 2019)
- Affiliated Faculty of Linguistics Program@WWU, 2015 - current.
- WWU Team Member (as one of the change leaders) of NCWIT's PaceSetters Program, 2016
- CS Graduate Committee (Fall 2014 - Spring 2018)
- CS Undergraduate Curriculum Committee (2013-2014)

## OTHER RELEVANT AND NOTABLE SERVICE ACTIVITIES

- Member of BETTER in STEM (SMATE, WWU) Computer Science Cohort 1, Summer 2022 - Spring 2024.
- Member of CS Team of AEES (Advancing Equity and Excellence in Science, Sponsored by SMATE) Summer Curriculum Development Program, Summer 2022.
- Co-organizer of two CS Equity-focused Teaching Workshops, Fall 2021 and Winter 2022.
- Course coordinator of CSCI 301, Fall 2021 - Spring 2022.
- Member of the departmental CS/DS/BAE/CyberSecurity - Admission working group and Pre-major working group, Spring 2021.
- CS Probationary Faculty Mentor, Fall 2020 - Spring 2021.
- Change Leader for WWU CS in the National Center for Women in Information Technology Pacesetters program, 2018 - 2020.
- Invited Panelist of WWU AWC (Association for Women in Computing) "CS Stories", 3 - 5pm @ Willson Library Reading Room, May 23, 2019.
- Invited Panelist of AEES (Advancing Excellence and Equity in Science) Faculty for an HHMI funded professional development workshop, 12:45 - 2:00pm, April 27, 2019.
- Invited Speaker of Technology Alliance Group for Northwest Washington (TAGNW) Tech Expo, Breakout Session "Inclusion: Why More Room at the Table Makes Sense.", Nov 8, 2018.
- Participant of "Faculty Mentors" at CS/M Scholars Welcoming Event, Oct 9, 2018.
- External Reviewer of Promotion to Senior Instructor at Institute of Technology, UW Tacoma (UWT), Summer 2016.
- Presenting in CS Graduate Open House, WWU, Nov 12, 2016
- Judge of WWU Student Robot Competition and Mobile App Showcase, June 3, 2016
- Co-organizing "Connections: Strengthening the Community of Western Women in CS", April 21, 2016
- Co-presenting on "A Survey of Computational Linguistic Research at Western", 2016 Let's Talk Series, Linguistics Program, WWU, Feb 18, 2016.
- Panelist of "Round Table Discussion: Women in Science" at Western, April 15, 2015.
- Panelist of New Faculty Workshop Panel by C-Core, September 9-11, 2015, SMATE@WWU
- Mentor and Judge of Students' Posters for Scholars Week at Western (May 15-16, 2014, May



14-15, 2015).

- Compass to Campus, Oct 26, 2014, Sumerian Project Presentation.
- Back-2-Bellingham, May 17, 2014, Research Project Showcase.
- Co-hosted Graduate Seminar (Fall 2014) with Brian Hutchinson
- Guest Speaker of an Event Organized by Women's Center at Western themed with "Attracting more women to STEM". April 8, 2014.
- CS Department undergraduate advisor (2013-current)
- Participated in teaching of CSCI 495 and Grad Seminar (2013-2018)
- Community service through Bellingham Chinese Christian Church (2015-)

#### PROFESSIONAL DEVELOPMENT

- BETTER in STEM Workshop, WWU, Aug. 8 - 10, 2022; Feb 4, 2023.
- Values-based Academic Leadership Trajectories for Women in STEM (VAuLTS): The Northwest Regional Partnership. Funded by NSF ADVANCE. Hosted by WSU. Winter 2020 - 2023.
- Workshop of Sustaining Inclusive, Student-Centered Instruction, WWU, Sept 15, 2021.
- Fundamentals of POGIL (Process Oriented Guided Inquiry Learning) virtual Workshop. Nov 14, 2020.
- Blended/Online Course Development Boot Camp (6/29-7/17, 2020) by Instructional Design at WWU.
- Took online classes of "Deep Learning Tensor Flow", Dec 2016.
- Participated in Faculty Cohort 2 of the NSF funded "Change at the Core" (C-Core) project, WWU.
- Participated in C-Core Summer Academy, WWU, August, 2015, 2016.
- Participated in the NSF Day at University of Washington Bothell, April 1, 2015.

#### PROFESSIONAL AFFILIATIONS

- Association of Computer Linguistics (2014 - current)
- Association of Computer Machinery (2014 - current)

#### HONOR AND AWARD

- The only nomination from SFU for Canadian AI Association AI Doctoral Dissertation Award 2010
- Ebco/Eppich Scholarship Spring 2007
- SFU President's Ph.D. Research Stipend Fall 2006
- Computing Science Graduate Fellowship Summer 2006, Fall 2005
- Graduate Fellowship Summer 2005
- Graduate Scholarship 1999-2002
- First Class Scholarship 1995-1999

Updated on February 21, 2023.