DEREK F. WONG

☎ +853 8822 4478
✉ derekfw@um.edu.mo
⌂ www.fst.um.edu.mo/personal/derek-wong
🎓 scholar.google.com/citations?user=KjQBe8oAAAAJ
in www.linkedin.com/in/derek-wong-6209445

EDUCATION

Doctor of Philosophy | *Control Science and Engineering*   Sep. 2001 – Jun. 2005
Tsinghua University, Beijing, China

Master of Science | *Software Engineering*   Sep. 1997 – Apr. 1999
University of Macau, Macao, China

Bachelor of Science | *Software Engineering*   Sep. 1991 – Jul. 1995
University of Macau, Macao, China

ACADEMIC EXPERIENCE

Associate Professor   Aug. 2017 – present
University of Macau, Macao, China

Interim Associate Dean of Faculty of Science and Technology   Jul. 2022 – Jun. 2023
University of Macau, Macao, China

Assistant Professor   Feb. 2008 – Jul. 2017
University of Macau, Macao, China

Research Fellow   Sep. 2005 – Jan. 2008
University of Macau, Macao, China

Visiting Scholar   Sep. 2018 – Nov. 2018
Dublin City University, Dublin, Ireland

Project Manager (2nd Appointment)   Feb. 2008 Dec. 2011
Institute of Systems and Computer Engineering of Macau (INESC-Macau), Macao, China

Research Fellow (2nd Appointment)   Sep. 2005 – Jan. 2008
Institute of Systems and Computer Engineering of Macau (INESC-Macau), Macao, China

HONORS AND AWARDS

University-level Teaching Excellence Award   2024
University of Macau, Macao, China

FST Teaching Excellence Award   2024
Faculty of Science and Technology, University of Macau, Macao, China

Technological Invention Award | *Second Prize*   2022
The fifth Macau Science and Technology Award, Macao, China

Research Excellence Award   2022
Faculty of Science and Technology, University of Macau, Macao, China

Incentive Scheme for Outstanding Academic Staff   2022
University of Macau Development Foundation (UMDF), University of Macau, Macao, China

Teaching Excellence Award   2018
Faculty of Science and Technology, University of Macau, Macao, China

Macau Science and Technology Progress Award | *Second Prize*   2012
The First Macau Science and Technology Award, Macao, China

Shared Tasks

Ranked 1st for Quality Estimation on Multilingual/English-Russian Machine Translation — 2022
The Seventh Conference on Machine Translation (WMT 2022)

Ranked 2nd for Quality Estimation on English-German and Chinese-English Machine Translation — 2022
The Seventh Conference on Machine Translation (WMT 2022)

Ranked 1st for Machine Translation – Evaluation Metrics on Chinese-English /Czech-English/German-English/Japanese-English Translation Systems — 2021
The Sixth Conference on Machine Translation (WMT 2021)

Ranked 2nd for Machine Translation – Evaluation Metrics on Hausa-English /Icelandic-English Translation Systems — 2021
The Sixth Conference on Machine Translation (WMT 2021)

Ranked 1st and 2nd for Chinese-English Newswires Translation — 2017
The 13th China Workshop on Machine Translation (CWMT 2017), Dalian, China

Ranked 2nd for Chinese-English/English-Chinese Newswires Translation — 2015
The 11th China Workshop on Machine Translation (CWMT 2015), Anhui, China

Ranked 1st for English-German/Czech-English/French-English Medical Translation — 2014
The 9th Workshop on Machine Translation (WMT 2014), Baltimore, Maryland, USA

Ranked 2nd for German-English/English-Czech/English-French Medical Translation — 2014
The 9th Workshop on Machine Translation (WMT 2014), Baltimore, Maryland, USA

Ranked 3rd for Grammatical Error Correction — 2013
The 7th Conference on Computational Natural Language Learning (CoNLL-2013), Sofia, Bulgaria

Ranked 2nd for Machine Translation – Evaluation Metrics on English to French, German, Spanish, Czech and Russian Translation Systems — 2013
The 8th Workshop on Machine Translation (WMT 2013), Sofia, Bulgaria

Ranked 2nd for Traditional Chinese Parsing — 2012
The 2nd CIPS-SIGHAN Joint Conference on Chinese Language Processing (CLP2012), Tianjin, China

Ranked 2nd for Chinese Personal Name Disambiguation — 2017
The 2nd CIPS-SIGHAN Joint Conference on Chinese Language Processing (CLP2012), Tianjin, China

Supervised Project Awards

WeSpeak: Web-Based Simultaneous Interpretation System — 2024
FST Dean List, Faculty Science and Technology, University of Macau

***i*Speak: A Text-to-Speech System for Cantonese** — 2023
FST Dean List, Faculty of Science and Technology, University of Macau

Yu Sheng: AI Poem Writing — 2022
Champion, IEEE Project Competition, Macao, China
Third Prize, IEEE Industrial Electronics Society (IES) Undergraduate Contest, Macao, China
FST Dean List, Faculty Science and Technology, University of Macau

UMor-PG: The Intelligent Chatbot for Postgraduate Admission Information! — 2022
FST Dean List, Faculty Science and Technology, University of Macau

Candarin: Can You Read Cantonese? Candarin Can Help! — 2021
Third Prize, IEEE Industrial Electronics Society (IES) Undergraduate Contest, Macao, China
Third Prize, IEEE Project Competition, Macao, China
FST Dean List and Best of the Best, Faculty Science and Technology, University of Macau

UMor: A UM Chatbot 2020

First Prize, The UM Mobile APP Development Competition

Second Prize, IEEE Industrial Electronics Society (IES) Undergraduate Contest, Macao, China

Third Prize, IEEE Project Competition, Macao, China

Third Prize, Pan-Pearl River Delta Region Universities IT Project Competition

FST Dean List, Faculty Science and Technology, University of Macau

iLearner: An Intelligent e-Learning Platform for Teaching & Learning 2019

FST Dean List, Faculty Science and Technology, University of Macau

Automatic Generation of Test Questions for Language Learning 2018

FST Dean List, Faculty Science and Technology, University of Macau

UM-iMethod2: Chinese-Portuguese Translation-Oriented Interactive Input Method (IM) System 2017

FST Dean List, Faculty Science and Technology, University of Macau

iCommuter: Railway Scheduling and Control System with Enhanced Route Management 2016

FST Dean List and Best of the Best, Faculty Science and Technology, University of Macau

iFinger – Study of Gesture Recognition Technologies & Its Applications 2014

First Prize, IEEE Project Competition, Macao, China

FST Dean List and Best of the Best, Faculty Science and Technology, University of Macau

iInteract – Study of Eye Tracking Technologies and Its Applications 2012

First Prize, Amway Pan-Pearl River Delta Region Universities IT Project Competition, Chongqing, China

Creativity Prize, Amway Pan-Pearl River Delta Region Universities IT Project Competition, Chongqing, China

Merit of Tertiary Award, Asia Pacific Information and Communications Technology Awards (APICTA)

Merit Award, Macau Information and Communications Technology Awards (MICTA), Macao, China

First Prize, IEEE Project Competition, Macao, China

FST Dean List, Faculty Science and Technology, University of Macau

CanSpeak – Cantonese Text to Speech System 2012

Second Prize, IEEE Project Competition, Macao, China

FST Dean List and Best of the Best, Faculty Science and Technology, University of Macau

Cyclops II: Snapshot Mobile Translation System Based on Thin Client-Server Architecture 2012

FST Dean List, Faculty of Science and Technology, University of Macau

KERST – Cantonese-to-English Real-Time Speech Translation System 2011

FST Dean List, Faculty of Science and Technology, University of Macau

iTagIt! Automatic Image Annotation System 2010

First Prize, IEEE Project Competition, Macao, China

Cyclops - Compact OCR Based Pocket Based Snapshot (Chinese) Translation 2009

Second Prize, Amway Pan-Pearl Delta River Region Universities IT Project Competition, Chongqing, China

First Prize, The 11th Challenge Cup, China

Third Prize, Macau Information and Communications Technology Awards (MICTA), Macao, China

English to Chinese Machine Translation based on Constraint Synchronous Grammar (CSG) 2006

Second Prize, Amway Pan-Pearl Delta River Region Universities IT Project Competition, China

Merit, Asia Pacific Information and Communications Technology Awards (APICTA), Macau

Third Prize, Macau Information and Communications Technology Awards (MICTA), Macao, China

Practicability Prize, IEEE Project Competition, Macao, China

Pak Pak Serves You – Application on Interactive Dialogue and Answering (IDQA) System 2005

Third Prize, The 11th Challenge Cup, China

Second Prize, IEEE Project Competition, Macao, China

Eliciting Multilingual Alignment in Foundation Language Models Aug. 2024
The Hong Kong Polytechnic University (PolyU), Hong Kong

Eliciting Non-English Alignment in Foundation Language Models Jul. 2024
Tianjin University, China

Revisiting the Metrics and Criteria for Machine Translation Evaluation Nov. 2023
Soochow University, China

Human-in-the-loop Machine Translation with Large Language Models Nov. 2023
Artificial Intelligence & International Communication Forum, China

Tradução Automática Português-Chinês na Universidade de Macau Oct. 2023
1º Fórum Internacional das Línguas Chinesa e Portuguesa

Embracing Human Learning Principles for Effective MT Model Training Sep. 2023
The 10th Workshop on Patent and Scientific Literature Translation (PSLT 2023)

Is Self-Awareness the Key to Effective Machine Translation Training? Jul. 2023
Shenzhen Institute of Advanced Technology (SIAT), China

Exploring Criteria, Methodologies, and Strategies in MT Evaluation Jul. 2023
Tencent AI Lab, China

Difficulty-Aware NMT Model Training & Evaluation Methods Jun. 2023
INESC-ID, Lisbon

The State of Portuguese-Chinese Machine Translation: Latest Findings from Macau Jun. 2023
Instituto Superior de Engenharia de Lisboa, Lisboa

What is ChatGPT? Challenges & Opportunities in a New Wave of AI Mar. 2023
The Economic and Technological Development Bureau of Macau SAR, Macau

Chat to ChatGPT: Exploring GPT Language Models Mar. 2023
Center for Data Science of Institute of Collaborative Innovation, University of Macau, Macau

What is ChatGPT? A Holistic Review Feb. 2023
Faculty of Science and Technology, University of Macau, Macau

How Does a Machine Translate Human Language? Dec. 2022
The 4th Macau Young Scientists Conference Seminars and Award Ceremony, Macau

Advances in Neural Network Machine Translation and Its Applications Nov. 2022
The NewTranx Forum: The Fourth Lecture, China

Portuguese-Chinese Machine Translation Research Sep. 2022
Artificial Intelligence & International Communication Forum, China

Word or Attributes: Learning Better Bilingual Word Embeddings for NMT May. 2022
First Symposium on Frontiers of Science and Technology, University of Macau

Neural Machine Translation Model Training & Evaluation Methods Dec. 2021
Beihang University, China

Difficulty-Aware NMT Model Training & Evaluation Methods Nov. 2021
The 2021 International Conference on Big Data and Machine Intelligence:
Models, Algorithms and Applications (ICBM), China

A Cognitive Perspective for Understanding NMT Training and Evaluation Oct. 2021
The Alibaba Apsara Conference 2021, China

Probing the Learning of an NMT Model and Its Training Strategy Jul. 2020
NiuTrans Forum: The First Online Machine Translation Forum

Will AI Replace Human Translators?   Aug. 2020
TEDx Senado Square 2020

Enhancing Neural MT via Linguistic Information   Oct. 2019
The iFLYTEK 1024 Global Developer Fest, China

Deep Learning for Portuguese-Chinese Machine Translation   Jun. 2019
Coimbra University, Portugal

Intelligent Translation Technologies: Building Multilingual Translation Ecosystem   May. 2019
Fábrica de Startup Rio, Rio de Janeiro, Brazil

Linguistic Inspired Machine Translation Model   Apr. 2019
Huawei Noah Ark Lab, Hong Kong

The Research of Portuguese-Chinese Machine Translation Based on Deep Learning   Apr. 2019
Tsinghua University, China

Recent MT Research in UM: An Application to Portuguese-Chinese Translation   Feb. 2019
University of Macau

Enhancing NMT via Linguistic Information   Sep. 2018
ADAPT Centre, Dublin City University, Ireland

Bidirectional Hierarchical Representations for Attention-Based Neural Machine Translation   Oct. 2017
Soochow University, China

Chinese-Portuguese MT: Toward Better Chinese Word Segmentation for Statistical   Sep. 2016
Machine Translation via Graph Knowledge Constraints
The 16th China-Japan Natural Language Processing Joint Promotion Conference (CJNLP 2016), China

RESEARCH FUNDS

Research on Chinese Oriented Low-Resource Machine Translation | *PI*   Jan. 2023 – Jan. 2026
Technologies   (FDCT/060/2022/AFJ)
Joint Project of NSFC and FDCT

Modularized Semantic Neural Machine Translation: | *PI*   Dec. 2022 – Dec. 2025
Fundamentals & Application   (FDCT/070/2022/AMJ)
Joint Project of MOST and FDCT

Pretraining-based Automatic Evaluation of Machine Translation | *PI*   Jan. 2024 – Dec. 2026
Multi-Year Research Grant (MYRG) of the University of Macau   (MYRG-GRG2023-00006-FST-UMDF)

Large Language Models for Machine Translation with | *PI*   Jul. 2023 – Jun. 2024
Enhanced Discourse Modeling   (EF2023-00151-FST)
Tencent AI Lab Rhino-Bird

Research of Non-Autoregressive Neural Machine Translation | *PI*   Jan. 2021 – Dec. 2023
Multi-Year Research Grant (MYRG) of the University of Macau   (MYRG2020-00054-FST)

Guiding Self-Attention Based Neural Machine Translation | *PI*   Sep. 2019 – Aug. 2022
with Linguistic Prior Knowledge   (0101/2019/A2)
The Science and Technology Development Fund (FDCT) of Macao

Research of Chinese-Portuguese Machine Translation Based on | *Co-PI*   Jan. 2018 – Dec. 2020
Deep Learning   (FDCT/045/2017/AFJ)
Joint Project of NSFC and FDCT

Research on Domain Adaptation for Low-Resource Chinese-Portuguese | *PI* Jan. 2017 – Dec. 2020
MT in Big Data Era: Methodology and Its Implementation   (61702203)
National Natural Science Foundation of China (NSFC)

Morpho-Syntactic Modeling for Chinese-Portuguese Statistical | *PI*   Jan. 2018 – Dec. 2020

Machine Translation (SMT)   (MYRG2017-00087-FST)
Multi-Year Research Grant (MYRG) of the University of Macau

Research on Linguistic Prediction Model with Graph-based | *PI*   May 2015 – Apr. 2018
Semi-Supervised Learning   (MYRG2015-00188-FST)
Multi-Year Research Grant (MYRG) of the University of Macau

Heterogeneous Domain Adaptation Model for SMT | *PI*   Jan. 2015 – Jan. 2017
The Science and Technology Development Fund (FDCT) of Macao   (057/2014/A)

Domain Adaptation in Statistical Machine Translation Based on | *PI*   Apr. 2015 – Mar. 2018
Graph Propagation   (MYRG2015-00175-FST)
Multi-Year Research Grant (MYRG) of the University of Macau

Construction of Portuguese-Chinese Parallel Treebank (PCTreeBank) | *PI* May 2013 – Apr. 2016
Based on Unsupervised Learning Approach   (MYRG076(Y1-L2)-FST13-WF)
Multi-Year Research Grant (MYRG) of the University of Macau

Computational Psycholinguistic Models of Second Language | *Co-PI*   May 2013 – Apr. 2016
Processing and Production   (MYRG064(Y1-L2)-FSH13-CCM)
Multi-Year Research Grant (MYRG) of the University of Macau

Blind Biosignal Classification (B2SC) Framework | *Co-PI*   Jun. 2012 – May 2015
for a Multi-Function Health Alert Device   (MYRG070(Y1-L2)-FST12-CS)
Multi-Year Research Grant (MYRG) of the University of Macau

AuTema-Post-Editing (AuTema-PostEd) | *Co-PI*   Jun. 2012 – May 2015
for Chinese/Portuguese   (MYRG058(Y1-L2)-FSH12-ALL)
Multi-Year Research Grant (MYRG) of the University of Macau

Autema – SynTree – Annotation and Analysis of Bilingual | *Co-PI*   Jun. 2011 – May 2014
Syntactic Trees for Chinese/Portuguese   (MYRG102(Y1-L2)-FSH11-ALL)
Multi-Year Research Grant (MYRG) of the University of Macau

Syntax modeling & parsing for Portuguese-Chinese Machine Translation | *PI*   May 2010 – Apr. 2013
and Establishment of Macau Key Research Laboratory in NLP & MT (NLPMT)   (057/2009/A2)
The Science and Technology Development Fund (FDCT) of Macao

Grammatical Inference for Analyzing the Second Language | *Co-PI*   Mar. 2010 – Mar. 2012
Acquisition of Spoken Portuguese   (RG060/09-10S/11R/CS/FST)
Multi-Year Research Grant (MYRG) of the University of Macau

AuTema-Dis II | *Co-PI*   Mar. 2010 – Feb. 2011
Multi-Year Research Grant (MYRG) of the University of Macau   (RG035/09-10S/ALL/FSH)

Data Mining Model in Analyzing the Acquisition | *Co-PI*   Mar. 2009 – Feb. 2010
of Portuguese Knowledge for Macau Students   (RG054/08-09S/CS/FST)
Multi-Year Research Grant (MYRG) of the University of Macau

R&D of Knowledge-based Machine-Aided Bi-Directional Paragraph | *PI*   Sep. 2006 – Aug. 2009
Translation in Portuguese-Chinese and English-Chinese   (041/2005/A)
The Science and Technology Development Fund (FDCT) of Macao

CONSULTANCY PROJECTS

Unicode Encoding of Macao Supplementary Character Set | *PI*   Sep. 2021 – present
Public Administration and Civil Service Bureau (SAFP) of Macao SAR

Interactive Question-Answering System Based on Large Models | *PI*   Jul. 2022 – Dec. 2022
Pachira Information Technology (Hengqin) Co., Ltd.

All-in-One System (AiO) Consultancy & Development Service | *PI*   Jan. 2011 – Jun. 2018
Macau Government Tourist Office (MGTO) of Macao SAR

License Management System (LMS) Consultancy & Development Service | *PI*   Jun. 2007 – May. 2018
Macau Government Tourist Office (MGTO) of Macao SAR

PO Box Automation System | *PI*   Sep. 1997 – May. 2002
Macao Post Office of Macao SAR

SELECTED PROFESSIONAL SERVICES

COMMUNITY AND ORGANIZATIONS

NLPCC Technical Committee | *Member*   2023 – present
China Computer Federation (CCF)

Machine Translation Steering Committee | *Member*   2019 – present
Chinese Information Processing Society of China (CIPS)

Board of Director | *Member*   2012 – present
Chinese Information Processing Society of China (CIPS)

Executive Committee Members | *Member-at-Large*   2019 – present
Asian Federation of Natural Language (AFNLP)

Board of Directors | *Vice President*   2019 – present
Macau Greater Bay Area Artificial Intelligence Institute

IEEE Engineering in Medicine and Biology Society (EMBS) | *Chair*   2015 – 2016
Hong Kong – Macau Joint Chapter

Board of Directors | *President*   2012 – present
Macau Web Intelligence Consortium (WIC) Association

Board of Supervisors | *Vice President*   2010 – present
Macau Society of Biomedical Engineering (MSBME)

JOURNAL EDITORS & REVIEWERS

Action Editor   2023 – present
Transactions of the Association for Computational Linguistics (TACL), ACL

Associate Editor   2022 – present
Transactions on Audio, Speech and Language Processing (TASLP), IEEE/ACM

Associate Editor   2022 – present
Transactions on Asian and Low-Resource Language Information Processing (TALLIP), ACM

Action Editor   2022 – present
ACL Rolling Review (ARR), ACL

Editorial Board Member   2022 – present
Natural Language Processing, Elsevier

Editorial Board Member   2019 – 2022
Machine Translation Journal, Springer

Reviewers 2015 – present

ACL Rolling Review (ARR), Computational Linguistics (CL), Transactions of the Association for Computational Linguistics (TACL), ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP), IEEE/ACM Transactions on Audio, Speech, and Language Processing (TASLP), Neurocomputing, Journal of Artificial Intelligence Research (JAIR)

CONFERENCE ORGANIZATIONS

Organizer and Steering Committee Member 2012 – 2024

IEEE SLT (2024), MT Summit (2023), IJCAI (2019), CWMT (2014), O-COCOSDA (2012)

Program Co-Chair 2012 – 2017

NLPCC (2024), IEEE SLT (2024), CWMT (2017), O-COCOSDA (2012)

Senior/Area Co-Chair 2016 – 2024

NAACL (2024), EACL (2024), COLING (2024), EMNLP (2020), CCL (2016, 2019, 2021), NLPCC (2018 2019, 2021)

Demo Co-Chair 2019 – 2020

AACL-IJCNLP (2020), EMNLP (2019)

Publication Co-Chair 2017 – 2020

COLING (2020), IJCNLP (2017)

Local Organization Committee 2014 – 2019

EMNLP-IJCNLP (2019), IJCAI (2019), CWMT (2014)

Sponsorship Co-Chair 2014 – 2020

NLPCC (2020), WAIM (2014)

Student Research Workshop Co-Chair 2021 – 2023

IJCNLP-AACL (2023), ACL-IJCNLP (2021)

Senior PC Member 2020 – 2024

ECAI (2024), IJCAI (2020)

PC Member 2014 – 2023

ICLR, ICML, NeurIPS, AAAI, IJCAI, ACL, EMNLP, NAACL-HLT, EACL, MT Summit, COLING, CCL, NLPCC, CCMT

SERVICES TO MACAU SOCIETY

Talent Program 2016 | *Co-PI* 2016

The Science and Technology Development Fund (FDCT) of Macao

Centre for Science & Engineering Promotion – Open Laboratory | *Co-PI* 2016

The Science and Technology Development Fund (FDCT) of Macao

Computer Science Exploration Camp | *PI* 2009 – 2013

The Science and Technology Development Fund (FDCT) of Macao

SELECTED PUBLICATIONS

JOURNAL ARTICLES

[1] Jianhui Pang, Fanghua Ye, Longyue Wang, Dian Yu, **Derek Fai Wong**, Shuming Shi, and Zhaopeng Tu. "Salute the Classic: Revisiting Challenges of Machine Translation in the Age of Large Language Models". In: *Transactions of the Association for Computational Linguistics* (2024).

[2] Jianhui Pang, Baosong Yang*, **Derek Fai Wong**, Yu Wan, Dayiheng Liu, Lidia Sam Chao, and Jun Xie. "Rethinking the Exploitation of Monolingual Data for Low-Resource Neural Machine Translation". In: *Computational Linguistics* 50.1 (2024), pp. 25–47.

[3] Guanhua Chen, Runzhe Zhan, **Derek F. Wong**, and Lidia S. Chao. "Dynamic curriculum learning for conversation response selection". In: *Knowl. Based Syst.* 293 (2024), p. 111687.

[4] Guanhua Chen, Runzhe Zhan, **Derek F. Wong**, and Lidia S. Chao. "Multi-Level Curriculum Learning for Multi-Turn Dialogue Generation". In: *IEEE ACM Trans. Audio Speech Lang. Process.* 31 (2023), pp. 3958–3967.

[5] Mingzhou Xu, Longyue Wang, Siyou Liu, **Derek F. Wong**, Shuming Shi, and Zhaopeng Tu. "A benchmark dataset and evaluation methodology for Chinese zero pronoun translation". In: *Lang. Resour. Evaluation* 57.3 (2023), pp. 1263–1293.

[6] Cuilian Zhang, **Derek F. Wong**, Eddy S. K. Lei, Runzhe Zhan, and Lidia S. Chao. "Obscurity-Quantified Curriculum Learning for Machine Translation Evaluation". In: *IEEE ACM Trans. Audio Speech Lang. Process.* 31 (2023), pp. 2259–2271.

[7] Rong Xiao, Yu Wan, Baosong Yang, Haibo Zhang, Huajin Tang, **Derek F. Wong**, and Boxing Chen. "Towards Energy-Preserving Natural Language Understanding With Spiking Neural Networks". In: *IEEE ACM Trans. Audio Speech Lang. Process.* 31 (2022), pp. 439–447.

[8] Yu Wan, Baosong Yang, **Derek F. Wong**, Lidia Sam Chao, Liang Yao, Haibo Zhang, and Boxing Chen. "Challenges of Neural Machine Translation for Short Texts". In: *Computational Linguistics* (Mar. 2022), pp. 1–21.

[9] Mingzhou Xu, Baosong Yang, **Derek F. Wong**, and Lidia S. Chao. "Multi-view self-attention networks". In: *Knowl. Based Syst.* 241 (2022), p. 108268.

[10] Chongman Leong, Xuebo Liu, **Derek F. Wong**, and Lidia S. Chao. "Exploiting Translation Model for Parallel Corpus Mining". In: *IEEE ACM Trans. Audio Speech Lang. Process.* 27.12 (2021), pp. 2103–2112.

[11] Baosong Yang, Longyue Wang, **Derek F. Wong**, Shuming Shi, and Zhaopeng Tu. "Context-aware Self-Attention Networks for Natural Language Processing". In: *Neurocomputing* 458 (2021), pp. 157–169.

[12] Yujia Huo, **Derek F. Wong**, Lionel M Ni, Lidia S. Chao, Jing Zhang, and Xin Zuo. "Learning cognitive embedding using signed knowledge interaction graph". In: *Knowl. Based Syst.* (2021), p. 107327.

[13] Yujia Huo, **Derek F. Wong**, Lionel M. Ni, Lidia S. Chao, and Jing Zhang. "Knowledge modeling via contextualized representations for LSTM-based personalized exercise recommendation". In: *Inf. Sci.* 523 (2020), pp. 266–278.

[14] Baosong Yang, **Derek F. Wong**, Lidia S. Chao, and Min Zhang. "Improving tree-based neural machine translation with dynamic lexicalized dependency encoding". In: *Knowl. Based Syst.* 188 (2020).

[15] Yujia Huo, **Derek F. Wong**, Lionel M. Ni, Lidia S. Chao, and Jing Zhang. "HeTROPY: Explainable learning diagnostics via heterogeneous maximum-entropy and multi-spatial knowledge representation". In: *Knowl. Based Syst.* 207 (2020), p. 106389.

[16] Xuebo Liu, **Derek F. Wong**, Lidia S. Chao, and Yang Liu. "Latent Attribute Based Hierarchical Decoder for Neural Machine Translation". In: *IEEE ACM Trans. Audio Speech Lang. Process.* 27.12 (2019), pp. 2103–2112.

[17] Qiang Li, **Derek F. Wong**, Lidia S. Chao, Yaqian Han, Tong Xiao, and Jingbo Zhu. "Template-Driven Neural Machine Translation". In: *Chinese Journal of Computers* 3 (2019).

[18] Qiang Li, **Derek F. Wong**, Lidia S. Chao, Muhua Zhu, Tong Xiao, Jingbo Zhu, and Min Zhang. "Linguistic Knowledge-Aware Neural Machine Translation". In: *IEEE ACM Trans. Audio Speech Lang. Process.* 26.12 (2018), pp. 2341–2354.

[19] Bingquan Liu, Zhen Xu, Chengjie Sun, Baoxun Wang, Xiaolong Wang, **Derek F. Wong**, and Min Zhang. "Content-Oriented User Modeling for Personalized Response Ranking in Chatbots". In: *IEEE ACM Trans. Audio Speech Lang. Process.* 26.1 (2018), pp. 122–133.

[20] **Derek F. Wong** and Deyi Xiong, eds. *Machine Translation - 13th China Workshop, CWMT 2017, Dalian, China, September 27-29, 2017, Revised Selected Papers*. Vol. 787. Communications in Computer and Information Science. Springer, 2017.

[21] Igor A Lourenço da Silva, Fabio Alves, Marcia Schmaltz, Adriana Pagano, **Derek F. Wong**, Lidia Chao, Ana Luısa V Leal, Paulo Quaresma, Caio Garcia, and Gabriel Eduardo da Silva. "Translation, post-editing and directionality: A study of effort in the Chinese-Portuguese language pair". In: *Translation in Transition*. John Benjamins, 2017, pp. 108–134.

[22] **Derek F. Wong**, Yi Lu, and Lidia S. Chao. "Bilingual recursive neural network based data selection for statistical machine translation". In: *Knowl. Based Syst.* 108 (2016), pp. 15–24.

[23] Tong Xiao, **Derek F. Wong**, and Jingbo Zhu. "A Loss-Augmented Approach to Training Syntactic Machine Translation Systems". In: *IEEE ACM Trans. Audio Speech Lang. Process.* 24.11 (2016), pp. 2069–2083.

[24] Márcia Schmaltz, Igor AL da Silva, Adriana Pagano, Fabio Alves, Ana Luısa V Leal, **Derek F. Wong**, Lidia S Chao, and Paulo Quaresma. "Cohesive relations in text comprehension and production: An exploratory study comparing translation and post-editing". In: *New Directions in Empirical Translation Process Research*. Springer, 2016, pp. 239–263.

[25] Lidia S. Chao, **Derek F. Wong**, Philip C. L. Chen, Wing W. Y. Ng, and Daniel S. Yeung. "Benefiting feature selection by the discovery of false irrelevant attributes". In: *Int. J. Wavelets Multiresolution Inf. Process.* 13.4 (2015), 1550023:1–1550023:17.

[26] Xiaodong Zeng, **Derek F. Wong**, Lidia S. Chao, and Isabel Trancoso. "Graph-Based Lexicon Regularization for PCFG With Latent Annotations". In: *IEEE ACM Trans. Audio Speech Lang. Process.* 23.3 (2015), pp. 441–450.

[27] Igor Antônio Lourenço da Silva, Márcia Schmaltz, Fabio Alves, Adriana Pagano, **Derek F. Wong**, Lidia Chao, Ana Luısa V Leal, Paulo Quaresma, and Caio Garcia. "Translating and post-editing in the Chinese-Portuguese Language pair: insights from an exploratory study of key logging and eye tracking". In: *Translation Spaces* 4.1 (2015), pp. 145–169.

[28] Xiaodong Zeng, **Derek F. Wong**, Lidia S. Chao, Isabel Trancoso, Liangye He, and Qiuping Huang. "Lexicon expansion for latent variable grammars". In: *Pattern Recognit. Lett.* 42 (2014), pp. 47–55.

[29] Longyue Wang, **Derek F. Wong**, and Lidia S. Chao. "TQDL: Integrated Models for Cross-Language Document Retrieval". In: *Int. J. Comput. Linguistics Chin. Lang. Process.* 17.4 (2012).

[30] **Fai Wong** and Sam Chao. "PCT: Portuguese-Chinese machine translation systems". In: *Journal of translation studies* 13.1-2 (2010), pp. 181–196.

Conference Papers

[1] Liangxin Liu, Xuebo Liu, **Derek F. Wong**, Dongfang Li, Ziyi Wang, Baotian Hu, and Min Zhang. "SelectIT: Selective Instruction Tuning for LLMs via Uncertainty-Aware Self-Reflection". In: *Proceedings of the Thirty-eighth Conference on Neural Information Processing Systems 2024, **NeurIPS 2024**, Vancouver, Canada, December 09 - 15, 2024*. 2024.

[2] Yiming Wang, Pei Zhang, Baosong Yang, **Derek F. Wong**, Zhuosheng Zhang, and Rui Wang. "Trajectory Volatility for Out-of-Distribution Detection in Mathematical Reasoning". In: *Proceedings of the Thirty-eighth Conference on Neural Information Processing Systems 2024, **NeurIPS 2024**, Vancouver, Canada, December 09 - 15, 2024*. 2024.

[3] Junchao Wu, Runzhe Zhan, **Derek F. Wong**, Shu Yang, Xinyi Yang, Yulin Yuan, and Lidia S. Chao. "DetectEval: Benchmarking LLM-Generated Text Detection in Real-World Scenarios". In: *Proceedings of the Thirty-eighth Conference on Neural Information Processing Systems, Datasets and Benchmarks Track, **NeurIPS 2024**, Vancouver, Canada, December 09-15, 2024*. 2024.

[4]   Fanghua Ye, Mingming Yang, Jianhui Pang, Longyue Wang, **Derek F. Wong**, Emine Yilmaz, Shuming Shi, and Zhaopeng Tu. "Benchmarking LLMs via Uncertainty Quantification". In: *Proceedings of the Thirty-eighth Conference on Neural Information Processing Systems, Datasets and Benchmarks Track, **NeurIPS** 2024, Vancouver, Canada, December 09-15, 2024*. 2024.

[5]   Renhao Li, Minghuan Tan, **Derek F. Wong**, and Min Yang. "CoEvol: Constructing Better Responses for Instruction Finetuning through Multi-Agent Cooperation". In: *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing, **EMNLP 2024**, Miami, Florida, November 12-16, 2024*. Association for Computational Linguistics, 2024.

[6]   Shudong Liu, Zhaocong Li, Xuebo Liu, Runzhe Zhan, **Derek F. Wong**, Lidia S. Chao, and Min zhang. "Can LLMs Learn Uncertainty on Their Own? Expressing Uncertainty Effectively in A Self-Training Manner". In: *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing, **EMNLP 2024**, Miami, Florida, November 12-16, 2024*. Association for Computational Linguistics, 2024.

[7]   Zhipeng Qian, Pei Zhang, Baosong Yang, Kai Fan, Yiwei Ma, **Derek F. Wong**, Xiaoshuai Sun, and Rongrong Ji. "AnyTrans: Translate AnyText in the Image with Large Scale Models". In: *Findings of the Association for Computational Linguistics: **EMNLP 2024***. Association for Computational Linguistics, 2024.

[8]   Tianxiang Hu, Pei Zhang, Baosong Yang, Jun Xie, **Derek F. Wong**, and Rui Wang. "Large Language Model for Multi-Domain Translation: Benchmarking and Domain CoT Fine-tuning". In: *Findings of the Association for Computational Linguistics: **EMNLP 2024***. Association for Computational Linguistics, 2024.

[9]   Yanming Sun, Xuebo Liu, **Derek F. Wong**, Yuchu Lin, Bei Li, Runzhe Zhan, Lidia S. Chao, and Min Zhang. "Understanding and Improving Low-Resource Neural Machine Translation with Shallow Features". In: *Natural Language Processing and Chinese Computing - 13th CCF International Conference, **NLPCC 2024**, Hangzhou, China, October 31 - November 2, 2024, Proceedings*. Ed. by Derek F. Wong, Zhongyu Wei, and Muyun Yang. Lecture Notes in Computer Science. Springer, 2024.

[10] Jingkun Ma, Runzhe Zhan, **Derek F. Wong**, and Lidia S. Chao. "Activate Integrated Controllable Generation with Soft Prompt". In: *Natural Language Processing and Chinese Computing - 13th CCF International Conference, **NLPCC 2024**, Hangzhou, China, October 31 - November 2, 2024, Proceedings*. Ed. by Derek F. Wong, Zhongyu Wei, and Muyun Yang. Lecture Notes in Computer Science. Springer, 2024.

[11] Xingchen Huang, Yujia Huo, **Derek F. Wong**, Yao Wang, Liqiong Cai, and Yonghong Jiang. "AQLoRA: An Adaptive Quantization-based Efficient Fine-tuning Method for LLMs". In: *Natural Language Processing and Chinese Computing - 13th CCF International Conference, **NLPCC 2024**, Hangzhou, China, October 31 - November 2, 2024, Proceedings*. Ed. by Derek F. Wong, Zhongyu Wei, and Muyun Yang. Lecture Notes in Computer Science. Springer, 2024.

[12] Shanshan Wang, **Derek F. Wong**, Jingming Yao, and Lidia S. Chao. "What is the Best Way for ChatGPT to Translate Poetry?" In: *Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers), **ACL 2024**, Bangkok, Thailand, August 11-16, 2024*. 2024.

[13] Runzhe Zhan, Xinyi Yang, **Derek F. Wong**, Lidia S. Chao, and Yue Zhang. "Prefix Text as a Yarn: Eliciting Non-English Alignment in Foundation Language Model". In: *Findings of the 62nd Annual Meeting of the Association for Computational Linguistics: **ACL 2024**, Bangkok, Thailand, August 11-16, 2024*. 2024.

[14] Jianhui Pang, Fanghua Ye, **Derek F. Wong**, and Longyue Wang. "Anchor-based large language models". In: *Findings of the 62nd Annual Meeting of the Association for Computational Linguistics: **ACL 2024**, Bangkok, Thailand, August 11-16, 2024*. 2024.

[15] Kaixin Lan, Tao Fang, **Derek F. Wong**, Yabo Xu, Lidia S. Chao, and Cecilia G Zhao. "FOCUS: Forging Originality through Contrastive Use in Self-Plagiarism for Language Models". In: *Findings of the 62nd Annual Meeting of the Association for Computational Linguistics: **ACL 2024**, Bangkok, Thailand, August 11-16, 2024*. 2024.

[16] Chen Li, Meishan Zhang, Xuebo Liu, Zhaocong Li, **Derek F. Wong**, and Min Zhang. "Towards Demonstration-Aware Large Language Models for Machine Translation". In: *Findings of the 62nd Annual Meeting of the Association for Computational Linguistics: **ACL 2024**, Bangkok, Thailand, August 11-16, 2024*. 2024.

[17] Zhexuan Wang, Shudong Liu, Xuebo Liu, Miao Zhang, **Derek F. Wong**, and Min Zhang. "Domain-Aware k-Nearest-Neighbor Knowledge Distillation for Machine Translation". In: *Findings of the 62nd Annual Meeting of the Association for Computational Linguistics: ACL 2024, Bangkok, Thailand, August 11-16, 2024*. 2024.

[18] Longyue Wang, Zefeng Du, Wenxiang Jiao, Chenyang Lyu, Jianhui Pang, Leyang Cui, Kaiqiang Song, **Derek F. Wong**, Shuming Shi, and Zhaopeng Tu. "Benchmarking and Improving Long-Text Translation with Large Language Models". In: *Findings of the 62nd Annual Meeting of the Association for Computational Linguistics: ACL 2024, Bangkok, Thailand, August 11-16, 2024*. 2024.

[19] Jianhui Pang, Baosong Yang, **Derek F. Wong**, Dayiheng Liu, Xiangpeng Wei, Jun Xie, and Lidia S. Chao. "MoNMT: Modularly Leveraging Monolingual and Bilingual Knowledge for Neural Machine Translation". In: *Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024)*. Torino, Italia: ELRA and ICCL, May 2024, pp. 11560–11573.

[20] Xinyu Ma, Xuebo Liu, **Derek F. Wong**, Jun Rao, Bei Li, Liang Ding, Lidia S. Chao, Dacheng Tao, and Min Zhang. "3AM: An Ambiguity-Aware Multi-Modal Machine Translation Dataset". In: *Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024)*. 2024, pp. 1–13.

[21] Guanhua Chen, Yutong Yao, **Derek F. Wong**, and Lidia S. Chao. "A Two-Stage Prediction-Aware Contrastive Learning Framework for Multi-Intent NLU". In: *Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024)*. 2024, pp. 1778–1788.

[22] Chenyang Lyu, Zefeng Du, Jitao Xu, Yitao Duan, Minghao Wu, Teresa Lynn, Alham Fikri Aji, **Derek F. Wong**, and Longyue Wang. "A Paradigm Shift: The Future of Machine Translation Lies with Large Language Models". In: *Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024))*. 2024, pp. 1339–1352.

[23] Chi Seng Cheang, Hou Pong Chan, **Derek F. Wong**, Xuebo Liu, Zhaocong Li, Yanming Sun, Shudong Liu, and Lidia S. Chao. "Can LMs Generalize to Future Data? An Empirical Analysis on Text Summarization". In: *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing, EMNLP 2023, Singapore, December 6-10, 2023*. Ed. by Houda Bouamor, Juan Pino, and Kalika Bali. Association for Computational Linguistics, 2023, pp. 16205–16217.

[24] Runzhe Zhan, Xuebo Liu, **Derek F. Wong**, Cuilian Zhang, Lidia S. Chao, and Min Zhang. "Test-time Adaptation for Machine Translation Evaluation by Uncertainty Minimization". In: *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers), ACL 2023, Toronto, Canada, July 9-14, 2023*. Ed. by Anna Rogers, Jordan L. Boyd-Graber, and Naoaki Okazaki. Association for Computational Linguistics, 2023, pp. 807–820.

[25] Shudong Liu, Xuebo Liu, **Derek F. Wong**, Zhaocong Li, Wenxiang Jiao, Lidia S. Chao, and Min Zhang. "kNN-TL: k-Nearest-Neighbor Transfer Learning for Low-Resource Neural Machine Translation". In: *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers), ACL 2023, Toronto, Canada, July 9-14, 2023*. Ed. by Anna Rogers, Jordan L. Boyd-Graber, and Naoaki Okazaki. Association for Computational Linguistics, 2023, pp. 1878–1891.

[26] Xuebo Liu, Yutong Wang, **Derek F. Wong**, Runzhe Zhan, Liangxuan Yu, and Min Zhang. "Revisiting Commonsense Reasoning in Machine Translation: Training, Evaluation and Challenge". In: *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers), ACL 2023, Toronto, Canada, July 9-14, 2023*. Ed. by Anna Rogers, Jordan L. Boyd-Graber, and Naoaki Okazaki. Association for Computational Linguistics, 2023, pp. 15536–15550.

[27] Qingyu Lu, Liang Ding, Liping Xie, Kanjian Zhang, **Derek F. Wong**, and Dacheng Tao. "Toward Human-Like Evaluation for Natural Language Generation with Error Analysis". In: *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers), ACL 2023, Toronto, Canada, July 9-14, 2023*. Ed. by Anna Rogers, Jordan L. Boyd-Graber, and Naoaki Okazaki. Association for Computational Linguistics, 2023, pp. 5892–5907.

[28] Yinghao Li, Xuebo Liu, Shuo Wang, Peiyuan Gong, **Derek F. Wong**, Yang Gao, Heyan Huang, and Min Zhang. "TemplateGEC: Improving Grammatical Error Correction with Detection Template". In: *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers), ACL 2023, Toronto, Canada, July 9-14, 2023*. Ed. by Anna Rogers, Jordan L. Boyd-Graber, and Naoaki Okazaki. Association for Computational Linguistics, 2023, pp. 6878–6892.

[29] Tao Fang, Jinpeng Hu, **Derek F. Wong**, Xiang Wan, Lidia S. Chao, and Tsung-Hui Chang. "Improving Grammatical Error Correction with Multimodal Feature Integration". In: *Findings of the Association for Computational Linguistics: ACL 2023, Toronto, Canada, July 9-14, 2023*. Ed. by Anna Rogers, Jordan L. Boyd-Graber, and Naoaki Okazaki. Association for Computational Linguistics, 2023, pp. 9328–9344.

[30] Tao Fang, Xuebo Liu, **Derek F. Wong**, Runzhe Zhan, Liang Ding, Lidia S. Chao, Dacheng Tao, and Min Zhang. "TransGEC: Improving Grammatical Error Correction with Translationese". In: *Findings of the Association for Computational Linguistics: ACL 2023, Toronto, Canada, July 9-14, 2023*. Ed. by Anna Rogers, Jordan L. Boyd-Graber, and Naoaki Okazaki. Association for Computational Linguistics, 2023, pp. 3614–3633.

[31] Zhihong Huang, Longyue Wang, Siyou Liu, and **Derek F. Wong**. "How Does Pretraining Improve Discourse-Aware Translation?" In: *Proc. INTERSPEECH 2023*. 2023, pp. 3899–3903.

[32] Xinyi Yang, Runzhe Zhan, **Derek F. Wong**, Junchao Wu, and Lidia S Chao. "Human-in-the-loop Machine Translation with Large Language Model". In: *Proceedings of Machine Translation Summit XIX, Vol. 2: Users Track*. 2023, pp. 88–98.

[33] Wai Lei Song, Haoyun Xu, **Derek F. Wong**, Runzhe Zhan, Lidia S Chao, and Shanshan Wang. "Towards Zero-Shot Multilingual Poetry Translation". In: *Proceedings of Machine Translation Summit XIX, Vol. 2: Users Track*. 2023, p. 324.

[34] Jingkun Ma, Runzhe Zhan, and **Derek F. Wong**. "Yu Sheng: Human-in-Loop Classical Chinese Poetry Generation System". In: *Proceedings of the 17th Conference of the European Chapter of the Association for Computational Linguistics. EACL 2023 - System Demonstrations, Dubrovnik, Croatia, May 2-4, 2023*. Ed. by Danilo Croce and Luca Soldaini. Association for Computational Linguistics, 2023, pp. 57–66.

[35] Mingzhou Xu, Longyue Wang, **Derek F. Wong**, Hongye Liu, Linfeng Song, Lidia S. Chao, Shuming Shi, and Zhaopeng Tu. "GuoFeng: A Benchmark for Zero Pronoun Recovery and Translation". In: *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing, EMNLP 2022*. Abu Dhabi, United Arab Emirates: Association for Computational Linguistics, Dec. 2022, pp. 11266–11278.

[36] Zhaocong Li, Xuebo Liu, **Derek F. Wong**, Lidia S. Chao, and Min Zhang. "ConsistTL: Modeling Consistency in Transfer Learning for Low-Resource Neural Machine Translation". In: *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing, EMNLP 2022*. Abu Dhabi, United Arab Emirates: Association for Computational Linguistics, Dec. 2022, pp. 8383–8394.

[37] Yu Wan, Dayiheng Liu, Baosong Yang, Haibo Zhang, Boxing Chen, **Derek F. Wong**, and Lidia S. Chao. "UniTE: Unified Translation Evaluation". In: *Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics, ACL 2022, Online, May 22-27, 2022*. Association for Computational Linguistics, May 2022.

[38] Yu Wan, Baosong Yang, Dayiheng Liu, Rong Xiao, **Derek F. Wong**, Haibo Zhang, Boxing Chen, and Lidia S. Chao. "Attention Mechanism with Energy-Friendly Operations". In: *Findings of the Association for Computational Linguistics: ACL 2022, Online, May 22-27, 2022*. Association for Computational Linguistics, May 2022.

[39] Yu Wan, Keqin Bao, Dayiheng Liu, Baosong Yang, **Derek F. Wong**, Lidia S. Chao, Wenqiang Lei, and Jun Xie. "Alibaba-Translate China's Submission for WMT2022 Metrics Shared Task". In: *Proceedings of the Seventh Conference on Machine Translation*. Abu Dhabi: Association for Computational Linguistics, Dec. 2022, pp. 586–592.

[40] Keqin Bao, Yu Wan, Dayiheng Liu, Baosong Yang, Wenqiang Lei, Xiangnan He, **Derek F. Wong**, and Jun Xie. "Alibaba-Translate China's Submission for WMT 2022 Quality Estimation Shared Task". In: *Proceedings of the Seventh Conference on Machine Translation*. Abu Dhabi: Association for Computational Linguistics, Dec. 2022, pp. 597–605.

[41] Xuebo Liu, Longyue Wang, **Derek F. Wong**, Liang Ding, Lidia S. Chao, Shuming Shi, and Zhaopeng Tu. "On the Complementarity between Pre-Training and Back-Translation for Neural Machine Translation". In: *Findings of the Association for Computational Linguistics: EMNLP 2021*. Punta Cana, Dominican Republic: Association for Computational Linguistics, Nov. 2021, pp. 2900–2907.

[42] Mingzhou Xu, Liangyou Li, **Derek F. Wong**, Qun Liu, and Lidia S. Chao. "Document Graph for Neural Machine Translation". In: *Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing, EMNLP 2021*. Online and Punta Cana, Dominican Republic: Association for Computational Linguistics, Nov. 2021, pp. 8435–8448.

[43] Yu Wan, Dayiheng Liu, Baosong Yang, Tianchi Bi, Haibo Zhang, Boxing Chen, Weihua Luo, **Derek F. Wong**, and Lidia S. Chao. "RoBLEURT Submission for WMT2021 Metrics Task". In: *Proceedings of the Sixth Conference on Machine Translation*. Online: Association for Computational Linguistics, Nov. 2021, pp. 1053–1058.

[44] Runzhe Zhan, Xuebo Liu, **Derek F. Wong**, and Lidia S. Chao. "Variance-Aware Machine Translation Test Sets". In: *Thirty-fifth Conference on Neural Information Processing Systems, Datasets and Benchmarks Track, NeurIPS 2021, December 6-14, 2021, virtual*. 2021.

[45] Runzhe Zhan, Xuebo Liu, **Derek F. Wong**, and Lidia S. Chao. "Meta-Curriculum Learning for Domain Adaptation in Neural Machine Translation". In: *Thirty-Fifth AAAI Conference on Artificial Intelligence, AAAI 2021, Thirty-Third Conference on Innovative Applications of Artificial Intelligence, IAAI 2021, The Eleventh Symposium on Educational Advances in Artificial Intelligence, EAAI 2021, Virtual Event, February 2-9, 2021*. AAAI Press, 2021, pp. 14310–14318.

[46] Runzhe Zhan, Xuebo Liu, **Derek F. Wong**, and Lidia S. Chao. "Difficulty-Aware Machine Translation Evaluation". In: *Proceedings of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing, ACL/IJCNLP 2021, Virtual Event, August 1-6, 2021*. Ed. by Chengqing Zong, Fei Xia, Wenjie Li, and Roberto Navigli. Association for Computational Linguistics, 2021, pp. 26–32.

[47] Liang Ding, Longyue Wang, Xuebo Liu, **Derek F. Wong**, Dacheng Tao, and Zhaopeng Tu. "Progressive Multi-Granularity Training for Non-Autoregressive Translation". In: *Findings of the Association for Computational Linguistics: ACL/IJCNLP 2021, Online Event, August 1-6, 2021*. Ed. by Chengqing Zong, Fei Xia, Wenjie Li, and Roberto Navigli. Association for Computational Linguistics, 2021, pp. 2797–2803.

[48] Liang Ding, Longyue Wang, Xuebo Liu, **Derek F. Wong**, Dacheng Tao, and Zhaopeng Tu. "Rejuvenating Low-Frequency Words: Making the Most of Parallel Data in Non-Autoregressive Translation". In: *Proceedings of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing, ACL/IJCNLP 2021, Virtual Event, August 1-6, 2021*. Ed. by Chengqing Zong, Fei Xia, Wenjie Li, and Roberto Navigli. Association for Computational Linguistics, 2021, pp. 3431–3441.

[49] Xuebo Liu, Longyue Wang, **Derek F. Wong**, Liang Ding, Lidia S. Chao, Shuming Shi, and Zhaopeng Tu. "On the Copying Behaviors of Pre-Training for Neural Machine Translation". In: *Findings of the Association for Computational Linguistics: ACL/IJCNLP 2021, Online Event, August 1-6, 2021*. Ed. by Chengqing Zong, Fei Xia, Wenjie Li, and Roberto Navigli. Association for Computational Linguistics, 2021, pp. 4265–4275.

[50] Xuebo Liu, Longyue Wang, **Derek F. Wong**, Liang Ding, Lidia S. Chao, and Zhaopeng Tu. "Understanding and Improving Encoder Layer Fusion in Sequence-to-Sequence Learning". In: *9th International Conference on Learning Representations, **ICLR 2021**, Virtual Event, Austria, May 3-7, 2021*. OpenReview.net, 2021.

[51] Liang Ding, Longyue Wang, Xuebo Liu, **Derek F. Wong**, Dacheng Tao, and Zhaopeng Tu. "Understanding and Improving Lexical Choice in Non-Autoregressive Translation". In: *9th International Conference on Learning Representations, **ICLR 2021**, Virtual Event, Austria, May 3-7, 2021*. OpenReview.net, 2021.

[52] Yang Zhang, Dong Wang, Qiang Li, Yue Shen, Ziqi Liu, Xiaodong Zeng, Zhiqiang Zhang, Jinjie Gu, and **Derek F. Wong**. "User Retention: A Causal Approach with Triple Task Modeling". In: *Proceedings of the Thirtieth International Joint Conference on Artificial Intelligence, **IJCAI 2021**, Virtual Event / Montreal, Canada, 19-27 August 2021*. Ed. by Zhi-Hua Zhou. ijcai.org, 2021, pp. 3399–3405.

[53] Xuefeng Bai, Yafu Li, Zhirui Zhang, Mingzhou Xu, Boxing Chen, Weihua Luo, **Derek F. Wong**, and Yue Zhang. "Sentence-State LSTMs For Sequence-to-Sequence Learning". In: *Natural Language Processing and Chinese Computing - 10th CCF International Conference, NLPCC 2021, Qingdao, China, October 13-17, 2021, Proceedings, Part I*. Ed. by Lu Wang, Yansong Feng, Yu Hong, and Ruifang He. Vol. 13028. Lecture Notes in Computer Science. Springer, 2021, pp. 104–115.

[54] Yu Wan, Baosong Yang, **Derek F. Wong**, Lidia S. Chao, Haihua Du, and Ben C. H. Ao. "Unsupervised Neural Dialect Translation with Commonality and Diversity Modeling". In: *The Thirty-Fourth AAAI Conference on Artificial Intelligence, **AAAI 2020**, The Thirty-Second Innovative Applications of Artificial Intelligence Conference, IAAI 2020, The Tenth AAAI Symposium on Educational Advances in Artificial Intelligence, EAAI 2020, New York, NY, USA, February 7-12, 2020*. AAAI Press, 2020, pp. 9130–9137.

[55] Bowen Wu, Mengyuan Li, Zongsheng Wang, Yifu Chen, **Derek F. Wong**, Qihang Feng, Junhong Huang, and Baoxun Wang. "Guiding Variational Response Generator to Exploit Persona". In: *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics, **ACL 2020**, Online, July 5-10, 2020*. Ed. by Dan Jurafsky, Joyce Chai, Natalie Schluter, and Joel R. Tetreault. Association for Computational Linguistics, 2020, pp. 53–65.

[56] Xuebo Liu, Houtim Lai, **Derek F. Wong**, and Lidia S. Chao. "Norm-Based Curriculum Learning for Neural Machine Translation". In: *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics, **ACL 2020**, Online, July 5-10, 2020*. Ed. by Dan Jurafsky, Joyce Chai, Natalie Schluter, and Joel R. Tetreault. Association for Computational Linguistics, 2020, pp. 427–436.

[57] Yikai Zhou, Baosong Yang, **Derek F. Wong**, Yu Wan, and Lidia S. Chao. "Uncertainty-Aware Curriculum Learning for Neural Machine Translation". In: *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics, **ACL 2020**, Online, July 5-10, 2020*. Ed. by Dan Jurafsky, Joyce Chai, Natalie Schluter, and Joel R. Tetreault. Association for Computational Linguistics, 2020, pp. 6934–6944.

[58] Yu Wan, Baosong Yang, **Derek F. Wong**, Yikai Zhou, Lidia S. Chao, Haibo Zhang, and Boxing Chen. "Self-Paced Learning for Neural Machine Translation". In: *Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing, **EMNLP 2020**, Online, November 16-20, 2020*. Ed. by Bonnie Webber, Trevor Cohn, Yulan He, and Yang Liu. Association for Computational Linguistics, 2020, pp. 1074–1080.

[59] Xuancheng Huang, Jiacheng Zhang, Zhixing Tan, **Derek F. Wong**, Huanbo Luan, Jingfang Xu, Maosong Sun, and Yang Liu. "Modeling Voting for System Combination in Machine Translation". In: *Proceedings of the Twenty-Ninth International Joint Conference on Artificial Intelligence, **IJCAI 2020***. Ed. by Christian Bessiere. ijcai.org, 2020, pp. 3694–3701.

[60] Shuailong Liang, **Derek F. Wong**, and Yue Zhang. "Exploring COVID-19-related Twitter Topic Dynamics across Countries". In: *Proceedings of the 19th Chinese National Conference on Computational Linguistics*. 2020, pp. 707–718.

[61] Baosong Yang, Jian Li, **Derek F. Wong**, Lidia S. Chao, Xing Wang, and Zhaopeng Tu. "Context-Aware Self-Attention Networks". In: *The Thirty-Third AAAI Conference on Artificial Intelligence, **AAAI 2019**, The Thirty-First Innovative Applications of Artificial Intelligence Conference, IAAI 2019, The Ninth AAAI Symposium on Educational Advances in Artificial Intelligence, EAAI 2019, Honolulu, Hawaii, USA, January 27 - February 1, 2019*. AAAI Press, 2019, pp. 387–394.

[62] Qiang Wang, Bei Li, Tong Xiao, Jingbo Zhu, Changliang Li, **Derek F. Wong**, and Lidia S. Chao. "Learning Deep Transformer Models for Machine Translation". In: *Proceedings of the 57th Conference of the Association for Computational Linguistics, **ACL 2019**, Florence, Italy, July 28- August 2, 2019*. Ed. by Anna Korhonen, David R. Traum, and Lluıs Màrquez. Association for Computational Linguistics, 2019, pp. 1810–1822.

[63] Mingzhou Xu, **Derek F. Wong**, Baosong Yang, Yue Zhang, and Lidia S. Chao. "Leveraging Local and Global Patterns for Self-Attention Networks". In: *Proceedings of the 57th Conference of the Association for Computational Linguistics, **ACL 2019**, Florence, Italy, July 28- August 2, 2019*. Ed. by Anna Korhonen, David R. Traum, and Lluıs Màrquez. Association for Computational Linguistics, 2019, pp. 3069–3075.

[64] Xuebo Liu, **Derek F. Wong**, Yang Liu, Lidia S. Chao, Tong Xiao, and Jingbo Zhu. "Shared-Private Bilingual Word Embeddings for Neural Machine Translation". In: *Proceedings of the 57th Conference of the Association for Computational Linguistics, **ACL 2019**, Florence, Italy, July 28- August 2, 2019*. Ed. by Anna Korhonen, David R. Traum, and Lluıs Màrquez. Association for Computational Linguistics, 2019, pp. 3613–3622.

[65] Baosong Yang, Longyue Wang, **Derek F. Wong**, Lidia S. Chao, and Zhaopeng Tu. "Assessing the Ability of Self-Attention Networks to Learn Word Order". In: *Proceedings of the 57th Conference of the Association for Computational Linguistics, **ACL 2019**, Florence, Italy, July 28- August 2, 2019*. Ed. by Anna Korhonen, David R. Traum, and Lluıs Màrquez. Association for Computational Linguistics, 2019, pp. 3635–3644.

[66] Baosong Yang, Longyue Wang, **Derek F. Wong**, Lidia S. Chao, and Zhaopeng Tu. "Convolutional Self-Attention Networks". In: *Proceedings of the 2019 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, **NAACL-HLT 2019**, Minneapolis, MN, USA, June 2-7, 2019, Volume 1*. Ed. by Jill Burstein, Christy Doran, and Thamar Solorio. Association for Computational Linguistics, 2019, pp. 4040–4045.

[67] Baosong Yang, Zhaopeng Tu, **Derek F. Wong**, Fandong Meng, Lidia S. Chao, and Tong Zhang. "Modeling Localness for Self-Attention Networks". In: *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing, **EMNLP 2019**, Brussels, Belgium, October 31 - November 4, 2018*. Ed. by Ellen Riloff, David Chiang, Julia Hockenmaier, and Jun'ichi Tsujii. Association for Computational Linguistics, 2018, pp. 4449–4458.

[68] Lidia S. Chao, **Derek F. Wong**, Chi Hong Ao, and Ana Luısa Leal. "UM-PCorpus: A Large Portuguese-Chinese Parallel Corpus". In: *Proceedings of the LREC 2018 Workshop Belt and Road: Language Resources and Evaluation*. ELRA–European Language Resources Association, 2018.

[69] Chongman Leong, **Derek F. Wong**, and Lidia S. Chao. "UM-pAligner: Neural network-based parallel sentence identification model". In: *Proceedings of the 11th Workshop on Building and Using Comparable Corpora*. ELRA–European Language Resources Association, 2018, p. 53.

[70] Baosong Yang, **Derek F. Wong**, Tong Xiao, Lidia S. Chao, and Jingbo Zhu. "Towards Bidirectional Hierarchical Representations for Attention-based Neural Machine Translation". In: *Proceedings of the 2017 Conference on Empirical Methods in Natural Language Processing, **EMNLP 2017**, Copenhagen, Denmark, September 9-11, 2017*. Ed. by Martha Palmer, Rebecca Hwa, and Sebastian Riedel. Association for Computational Linguistics, 2017, pp. 1432–1441.

[71] Mingzhou Xu, Qiang Li, Chi Hong Ao, Ying Li, Lidia S. Chao, and **Derek F. Wong**. "The um-nlp2ct neural machine translation system for cwmt2017 translation task". In: *Proceedings of the 13th China Workshop on Machine Translation (CWMT 2017), Dalian, China*. 2017.

[72] Yu Tong, **Derek F. Wong**, and Lidia S. Chao. "Exploiting rich feature representation for smt n-best reranking". In: *2016 International Conference on Wavelet Analysis and Pattern Recognition (ICWAPR)*. IEEE. 2016, pp. 101–106.

[73] Junwen Xing, **Derek F. Wong**, Lidia S. Chao, Ana Luisa V Leal, Marcia Schmaltz, and Chunhui Lu. "Syntaxtree aligner: A web-based parallel tree alignment toolkit". In: *2016 International Conference on Wavelet Analysis and Pattern Recognition (ICWAPR)*. IEEE. 2016, pp. 37–42.

[74] Aaron Li-Feng Han, Xiaodong Zeng, **Derek F. Wong**, and Lidia S. Chao. "Chinese Named Entity Recognition with Graph-based Semi-supervised Learning Model". In: *Proceedings of the Eighth SIGHAN Workshop on Chinese Language Processing, SIGHAN@IJCNLP 2015, Beijing, China, July 30-31, 2015*. Ed. by Liang-Chih Yu, Zhifang Sui, Yue Zhang, and Vincent Ng. Association for Computational Linguistics, 2015, pp. 15–20.

[75] Xiaodong Zeng, Lidia S. Chao, **Derek F. Wong**, Isabel Trancoso, and Liang Tian. "Toward Better Chinese Word Segmentation for SMT via Bilingual Constraints". In: *Proceedings of the 52nd Annual Meeting of the Association for Computational Linguistics, **ACL 2014**, June 22-27, 2014, Baltimore, MD, USA*. The Association for Computer Linguistics, 2014, pp. 1360–1369.

[76] Aaron Li-Feng Han, **Derek F. Wong**, Lidia S. Chao, Yi Lu, Liangye He, and Liang Tian. "A Universal Phrase Tagset for Multilingual Treebanks". In: *Chinese Computational Linguistics and Natural Language Processing Based on Naturally Annotated Big Data - 13th China National Conference, CCL 2014, and Second International Symposium, NLP-NABD 2014, Wuhan, China, October 18-19, 2014. Proceedings*. Ed. by Maosong Sun, Yang Liu, and Jun Zhao. Vol. 8801. Lecture Notes in Computer Science. Springer, 2014, pp. 247–258.

[77] Yiming Wang, Longyue Wang, Xiaodong Zeng, **Derek F. Wong**, Lidia S. Chao, and Yi Lu. "Factored Statistical Machine Translation for Grammatical Error Correction". In: *Proceedings of the Eighteenth Conference on Computational Natural Language Learning: Shared Task, **CoNLL 2014**, Baltimore, Maryland, USA, June 26-27, 2014*. Ed. by Hwee Tou Ng, Siew Mei Wu, Ted Briscoe, Christian Hadiwinoto, Raymond Hendy Susanto, and Christopher Bryant. ACL, 2014, pp. 83–90.

[78] Liang Tian, **Derek F. Wong**, Lidia S. Chao, Paulo Quaresma, Francisco Oliveira, and Lu Yi. "UM-Corpus: A Large English-Chinese Parallel Corpus for Statistical Machine Translation". In: *Proceedings of the Ninth International Conference on Language Resources and Evaluation, **LREC 2014**, Reykjavik, Iceland, May 26-31, 2014*. Ed. by Nicoletta Calzolari, Khalid Choukri, Thierry Declerck, Hrafn Loftsson, Bente Maegaard, Joseph Mariani, Asunción Moreno, Jan Odijk, and Stelios Piperidis. European Language Resources Association (ELRA), 2014, pp. 1837–1842.

[79] Yi Lu, Longyue Wang, **Derek F. Wong**, Lidia S. Chao, and Yiming Wang. "Domain Adaptation for Medical Text Translation using Web Resources". In: *Proceedings of the Ninth Workshop on Statistical Machine Translation, WMT@ACL 2014, June 26-27, 2014, Baltimore, Maryland, USA*. The Association for Computer Linguistics, 2014, pp. 233–238.

[80] Longyue Wang, Yi Lu, **Derek F. Wong**, Lidia S. Chao, Yiming Wang, and Francisco Oliveira. "Combining Domain Adaptation Approaches for Medical Text Translation". In: *Proceedings of the Ninth Workshop on Statistical Machine Translation, WMT@ACL 2014, June 26-27, 2014, Baltimore, Maryland, USA*. The Association for Computer Linguistics, 2014, pp. 254–259.

[81] Xiaodong Zeng, **Derek F. Wong**, Lidia S. Chao, and Isabel Trancoso. "Co-regularizing character-based and word-based models for semi-supervised Chinese word segmentation". In: *Proceedings of the 51st Annual Meeting of the Association for Computational Linguistics, **ACL 2013**, 4-9 August 2013, Sofia, Bulgaria*. The Association for Computer Linguistics, 2013, pp. 171–176.

[82] Xiaodong Zeng, **Derek F. Wong**, Lidia S. Chao, and Isabel Trancoso. "Graph-based Semi-Supervised Model for Joint Chinese Word Segmentation and Part-of-Speech Tagging". In: *Proceedings of the 51st Annual Meeting of the Association for Computational Linguistics, **ACL 2013**, 4-9 August 2013, Sofia, Bulgaria*. The Association for Computer Linguistics, 2013, pp. 770–779.

[83] Longyue Wang, **Derek F. Wong**, Lidia S. Chao, Yi Lu, and Junwen Xing. "iCPE: A Hybrid Data Selection Model for SMT Domain Adaptation". In: *Chinese Computational Linguistics and Natural Language Processing Based on Naturally Annotated Big Data - 12th China National Conference, CCL 2013 and First International Symposium, NLP-NABD 2013, Suzhou, China, October 10-12, 2013. Proceedings*. Ed. by Maosong Sun, Min

Zhang, Dekang Lin, and Haifeng Wang. Vol. 8202. Lecture Notes in Computer Science. Springer, 2013, pp. 280–290.

[84] Junwen Xing, Longyue Wang, **Derek F. Wong**, Lidia S. Chao, and Xiaodong Zeng. "UM-Checker: A Hybrid System for English Grammatical Error Correction". In: *Proceedings of the Seventeenth Conference on Computational Natural Language Learning: Shared Task, **CoNLL 2013**, Sofia, Bulgaria, August 8-9, 2013*. Ed. by Hwee Tou Ng, Joel R. Tetreault, Siew Mei Wu, Yuanbin Wu, and Christian Hadiwinoto. ACL, 2013, pp. 34–42.

[85] Aaron Li-Feng Han, **Derek F. Wong**, Lidia S. Chao, Liangye He, Ling Zhu, and Shuo Li. "A Study of Chinese Word Segmentation Based on the Characteristics of Chinese". In: *Language Processing and Knowledge in the Web - 25th International Conference, GSCL 2013, Darmstadt, Germany, September 25-27, 2013. Proceedings*. Ed. by Iryna Gurevych, Chris Biemann, and Torsten Zesch. Vol. 8105. Lecture Notes in Computer Science. Springer, 2013, pp. 111–118.

[86] Aaron Li-Feng Han, **Derek F. Wong**, Lidia S. Chao, Liangye He, Shuo Li, and Ling Zhu. "Phrase Tagset Mapping for French and English Treebanks and Its Application in Machine Translation Evaluation". In: *Language Processing and Knowledge in the Web - 25th International Conference, GSCL 2013, Darmstadt, Germany, September 25-27, 2013. Proceedings*. Ed. by Iryna Gurevych, Chris Biemann, and Torsten Zesch. Vol. 8105. Lecture Notes in Computer Science. Springer, 2013, pp. 119–131.

[87] Shuo Li, **Derek F. Wong**, and Lidia S. Chao. "Experiments with POS-based restructuring and alignment-based reordering for statistical machine translation". In: *Proceedings of the Second Workshop on Hybrid Approaches to Translation, HyTra@ACL 2013, August 8, 2013, Sofia, Bulgaria*. Ed. by Marta R. Costa-jussà, Reinhard Rapp, Patrik Lambert, Kurt Eberle, Rafael E. Banchs, and Bogdan Babych. The Association for Computer Linguistics, 2013, pp. 82–87.

[88] Aaron L. F. Han, **Derek F. Wong**, and Lidia S. Chao. "Chinese Named Entity Recognition with Conditional Random Fields in the Light of Chinese Characteristics". In: *Language Processing and Intelligent Information Systems - 20th International Conference, IIS 2013, Warsaw, Poland, June 17-18, 2013. Proceedings*. Ed. by Mieczyslaw A. Klopotek, Jacek Koronacki, Malgorzata Marciniak, Agnieszka Mykowiecka, and Slawomir T. Wierzchon. Vol. 7912. Lecture Notes in Computer Science. Springer, 2013, pp. 57–68.

[89] Francisco Oliveira, **Derek F. Wong**, Lidia S. Chao, Liang Tian, and Liangye He. "Influence of Part-of-Speech and Phrasal Category Universal Tag-set in Tree-to-Tree Translation Models". In: *Sixth International Joint Conference on Natural Language Processing, **IJCNLP 2013**, Nagoya, Japan, October 14-18, 2013*. Asian Federation of Natural Language Processing / ACL, 2013, pp. 907–911.

[90] Qiuping Huang, **Derek F. Wong**, Lidia S. Chao, Xiaodong Zeng, and Liangye He. "Augmented Parsing of Unknown Word by Graph-Based Semi-Supervised Learning". In: *Proceedings of the 27th Pacific Asia Conference on Language, Information and Computation, PACLIC 27, Taipei, Taiwan, November 21-24, 2013*. National Chengchi University, Taiwan, 2013.

[91] Longyue Wang, **Derek F. Wong**, Lidia S. Chao, Junwen Xing, Yi Lu, and Isabel Trancoso. "Edit Distance: A New Data Selection Criterion for Domain Adaptation in SMT". In: *Recent Advances in Natural Language Processing, RANLP 2013, 9-11 September, 2013, Hissar, Bulgaria*. Ed. by Galia Angelova, Kalina Bontcheva, and Ruslan Mitkov. RANLP, 2013, pp. 727–732.

[92] Aaron L. F. Han, **Derek F. Wong**, Lidia S. Chao, and Liangye He. "Automatic Machine Translation Evaluation with Part-of-Speech Information". In: *Text, Speech, and Dialogue - 16th International Conference, TSD 2013, Pilsen, Czech Republic, September 1-5, 2013. Proceedings*. Ed. by Ivan Habernal and Václav Matousek. Vol. 8082. Lecture Notes in Computer Science. Springer, 2013, pp. 121–128.

[93] Aaron Li-Feng Han, Yi Lu, **Derek F. Wong**, Lidia S. Chao, Liangye He, and Junwen Xing. "Quality Estimation for Machine Translation Using the Joint Method of Evaluation Criteria and Statistical Modeling". In: *Proceedings of the Eighth Workshop on Statistical Machine Translation, WMT@ACL 2013, August 8-9, 2013, Sofia, Bulgaria*. The Association for Computer Linguistics, 2013, pp. 365–372.

[94] Aaron Li-Feng Han, **Derek F. Wong**, Lidia S. Chao, Yi Lu, Liangye He, Yiming Wang, and Jiaji Zhou. "A Description of Tunable Machine Translation Evaluation Systems in WMT13 Metrics Task". In: *Proceedings of the Eighth Workshop on Statistical Machine Translation, WMT@ACL 2013, August 8-9, 2013, Sofia, Bulgaria*. The Association for Computer Linguistics, 2013, pp. 414–421.

[95] Longyue Wang, **Derek F. Wong**, Lidia S. Chao, and Junwen Xing. "CRFs-Based Chinese Word Segmentation for Micro-Blog with Small-Scale Data". In: *Proceedings of the Second CIPS-SIGHAN Joint Conference on Chinese Language Processing, Tianjin, China, December 20-21, 2012*. Association for Computational Linguistics, 2012, pp. 51–57.

[96] Hao Zong, **Derek F. Wong**, and Lidia S. Chao. "Rules Design in Word Segmentation of Chinese Micro-Blog". In: *Proceedings of the Second CIPS-SIGHAN Joint Conference on Chinese Language Processing, Tianjin, China, December 20-21, 2012*. Association for Computational Linguistics, 2012, pp. 90–94.

[97] Hao Zong, **Derek F. Wong**, and Lidia S. Chao. "A Template Based Hybrid Model for Chinese Personal Name Disambiguation". In: *Proceedings of the Second CIPS-SIGHAN Joint Conference on Chinese Language Processing, Tianjin, China, December 20-21, 2012*. Association for Computational Linguistics, 2012, pp. 121–126.

[98] Longyue Wang, Shuo Li, **Derek F. Wong**, and Lidia S. Chao. "A Joint Chinese Named Entity Recognition and Disambiguation System". In: *Proceedings of the Second CIPS-SIGHAN Joint Conference on Chinese Language Processing, Tianjin, China, December 20-21, 2012*. Association for Computational Linguistics, 2012, pp. 146–151.

[99] Qiuping Huang, Liangye He, **Derek F. Wong**, and Lidia S. Chao. "A Simplified Chinese Parser with Factored Model". In: *Proceedings of the Second CIPS-SIGHAN Joint Conference on Chinese Language Processing, Tianjin, China, December 20-21, 2012*. Association for Computational Linguistics, 2012, pp. 188–193.

[100] Liangye He, **Derek F. Wong**, and Lidia S. Chao. "Adapting Multilingual Parsing Models to Sinica Treebank". In: *Proceedings of the Second CIPS-SIGHAN Joint Conference on Chinese Language Processing, Tianjin, China, December 20-21, 2012*. Association for Computational Linguistics, 2012, pp. 211–215.

[101] Aaron L. F. Han, **Derek F. Wong**, and Lidia S. Chao. "LEPOR: A Robust Evaluation Metric for Machine Translation with Augmented Factors". In: ***COLING 2012**, 24th International Conference on Computational Linguistics, Proceedings of the Conference: Posters, 8-15 December 2012, Mumbai, India*. Ed. by Martin Kay and Christian Boitet. Indian Institute of Technology Bombay, 2012, pp. 441–450.

[102] Longyue Wang, **Derek F. Wong**, and Lidia S. Chao. "An Improvement in Cross-Language Document Retrieval Based on Statistical Models". In: *Proceedings of the 24th Conference on Computational Linguistics and Speech Processing, ROCLING 2012, Yuan Ze University, Chung-Li, Taiwan, September 21-22, 2012*. Association for Computational Linguistics and Chinese Language Processing (ACLCLP), Taiwan, 2012.

[103] **Fai Wong**, Francisco Oliveira, Sam Chao, and Chi-Wai Tang. "Handheld Machine Translation System Based on Constraint Synchronous Grammar". In: *Proceedings of Machine Translation Summit XIII: Papers*. Xiamen, China, Sept. 2011.

[104] Liang Tian, **Fai Wong**, and Sam Chao. "Word Alignment Using GIZA++ on Windows". In: *Proceedings of Machine Translation Summit XIII: System Presentations*. Xiamen, China, Sept. 2011.

[105] **Fai Wong** and Sam Chao. "iSentenizer: An incremental sentence boundary classifier". In: *Proceedings of the 6th International Conference on Natural Language Processing and Knowledge Engineering, **NLPKE-2010***. IEEE. 2010, pp. 1–7.

[106] Francisco Oliveira, **Fai Wong**, Iok-Sai Hong, and Ming-Chui Dong. "Parsing extended constraint synchronous grammar in chinese-portuguese machine translation". In: *Proceedings of the International Conference on Computational Processing of the Portuguese Language, PROPOR 2010*. 2010, pp. 62–73.

[107] **Fai Wong**, Dong-Cheng Hu, Yu-Hang Mao, Ming-Chui Dong, and Yi-Ping Li. "Machine Translation Based on Constraint-Based Synchronous Grammar". In: *Second International Joint Conference on Natural Language Processing, **IJCNLP 2005***. 2005.

[108]   Francisco Oliveira, **Fai Wong**, Yiping Li, and Jie Zheng. "Unsupervised word sense disambiguation and rules extraction using non-aligned bilingual corpus". In: *Proceedings of the International Conference on Natural Language Processing and Knowledge Engineering, **NLPKE-2005***. IEEE. 2005, pp. 30–35.

[109]   **Fai Wong**, Dong Cheng Hu, Yu Hang Mao, and Ming Chui Dong. "A Flexible Example Annotation Schema: Translation Corresponding Tree Representation". In: ***COLING 2004***: *Proceedings of the 20th International Conference on Computational Linguistics*. Geneva, Switzerland: COLING, Aug. 2004, pp. 1079–1085.

TEACHING AND SUPERVISION

TEACHING

Graduate Courses

Applied Natural Language Processing	Fall, 2016 – present
Data Science and Data Visualization	Fall, 2019 – 2021
Machine Translation	Spring, 2012 – 2015
University Teaching II	Fall, 2016
University Teaching I	Spring, 2015

Undergraduate Courses

Natural Language Processing	Spring, 2018 – present
Introduction to Database Systems	Fall, 2018
Introduction to Natural Language Processing	Fall, 2012 – 2017
Computer Organization	Fall, 2018
Compiler Construction	Fall, 2009 – 2017

STUDENTS

Current Students

Wang Songsheng, PhD, *since 2020*	Pang Jianhui, PhD, *since 2020*
Zhan Runzhe, PhD, *since 2021*	Wang Shanshan, PhD, *since 2022*
Liu Shudong, PhD, *since 2022*	Ma Xinyu, PhD, *since 2022*
Li Renhao, PhD, *since 2023*	Zhang Pei, PhD, *since 2023*
Li Zhaocong, PhD, *since 2023*	Sun Yanming, PhD, *since 2023*
Chen Guanhua, PhD, *since 2023*	Lan Kaixin, PhD, *since 2024*
Huang Zhihong, PhD, *since 2024*	Yao Yutong, PhD, *since 2024*
Wu Junchao, PhD, *since 2024*	Ma Jing Kun, Andrew, Master, *since 2022*
Xinyi Yang, Master, *since 2022*	Wang Xinhao, Master, *since 2023*
Zhang Shijie, Master, *since 2023*	

Former Students

Fang Tao, PhD, *2020 – 2024*
Wan Yu, PhD, *2018 – 2023*
Huo Yujia, PhD, *2017 – 2020*
Lan Kaixin, Master, *2021 – 2024*
Li Yitong, Master, *2021 – 2024*
Cheung Wing Lam, Master, *2021 – 2024*
Liu Jie, Master, *2021 – 2023*
Yang Yu, Master, *2021 – 2023*
Cheang Chi Seng, Master, *2018 – 2023*
Sun Yanming, Master, *2020 – 2023*
Huang Zhihong, Master, *2020 – 2023*
Wong Song Man, Master, *2019 – 2022*
Cheng YiXun, Master, *2019 – 2022*
Wang Shanshan, Master, *2019 – 2022*
Chan Chou Weng, Raphael, Master, *2019 – 2021*
Leong Chongman, Master, *2015 – 2021*
Zhou Yikai, Master, *2016 – 2020*
Li Zhen, Master, *2017 – 2019*
Ao Chi Hong, Master, *2014 – 2017*
Lu Yi, Master, *2012 – 2016*
He Liangye, Master, *2010 – 2015*
Zong Hao, Master, *2011 – 2014*
Huang Qiuping, Master, *2011 – 2014*
Xing Junwen, Master, *2011 – 2014*
Fong Pui Chi, Master, *2006 – 2013*
Hong Iok Sai, Master, *2006 – 2013*
Anna Ho, Master, *2003 – 2008*
Tang Chi Wai, Master, *2001 – 2007*

Xu Mingzhou, PhD, *2017 – 2023*
Liu Xuebo, PhD, *2017 – 2021*
Yang Baosong, PhD, *2016 – 2019*
Wu Junchao, Master, *2022 – 2024*
Ku Su Wa, Master, *2021 – 2024*
Xu Tianjiao, Master, *2020 – 2023*
Si Pui Lam, Master, *2019 – 2023*
Du Zefeng, Master, *2020 – 2023*
Song Wai Lei, Master, *2019 – 2023*
Li Zhaocong, Master, *2020 – 2023*
Wan Zhoujiaqi, Master, *2021 – 2023*
Loi Wai Leong, Lewis, Master, *2020 – 2022*
Chen Guanhua, Master, *2020 – 2022*
Tsm U Hoi, Ocean, Master, *2019 – 2021*
Du Haihua, Master, *2017 – 2021*
Huang Shuyan, Master, *2018 – 2021*
Li Ying, Master, *2016 – 2020*
Chen Rui, Master, *2016 – 2018*
Wang Yiming, Master, *2012 – 2016*
Tong Yu, Master, *2013 – 2016*
Zhu Ling, Master, *2010 – 2014*
Han Lifeng, Master, *2011 – 2014*
Wang Longyue, Master, *2011 – 2014*
Li Shuo, Master, *2010 – 2013*
Tian Liang, Master, *2010 – 2013*
Zeng Xiaodong, Master, *2009 – 2012*
Leong Ka Seng, Master, *2005 – 2008*
Francisco de Oliveira, Master, *2003 – 2006*

Visiting Students

Qiang Li, PhD, Northeastern University, *2017 – 2018*
Huadong Chen, PhD, Nanjing University, *2018*