

# Jiatao Gu

Machine Learning Researcher, Apple | Ph.D.

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## RESEARCH INTERESTS

Generative AI, Natural Language Processing, Multi-model Representation Learning, Embodied AI

## EDUCATION

<b>Ph.D in Electrical and Electronic Engineering</b> The University of Hong Kong Supervisor: <i>Prof. Victor O.K. Li</i> Dissertation: <i>Efficient Neural Machine Translation</i>	Aug 2014 – Sep 2018 Hong Kong, China
<b>Bachelor in Electronic Engineering</b> Tsinghua University GPA: 3.76, Rank: 18/243	Sep 2010 – Jun 2014 Beijing, China

## RESEARCH EXPERIENCE

<b>Staff Research Scientist</b> Machine Learning Research (MLR), Apple Inc.	Jun 2022 – Present New York City, NY, US
<b>Senior Research Scientist</b> Facebook AI Research (FAIR), Meta Platforms Inc.	Aug 2018 – Jun 2022 New York City, NY, US
<b>Research Intern</b> Salesforce Research, Salesforce Inc. Mentor: <i>Dr. Richard Socher</i>	Sep 2017 – Dec 2017 Palo Alto, CA, US
<b>Research Intern</b> Microsoft Research, Microsoft Corporation Mentor: <i>Dr. Hany Hassan</i>	Apr 2017 – Aug 2017 Redmond, WA, US
<b>Visiting Scholar</b> Courant Institute of Mathematical Science, New York University Adviser: <i>Prof. Kyunghyun Cho</i>	Jun 2016 – Jan 2017 New York City, NY, US
<b>Exchange Student</b> Graduate School of Information Science and Technology, The University of Tokyo Adviser: <i>Prof. Hitoshi Iba, Danushka Bollegala</i>	Oct 2012 – Mar 2013 Tokyo, Japan

## PROFESSIONAL ACTIVITIES

<b>Professional Service</b>  <i>Action Editor:</i> ACL Rolling Review (ARR), since 2022 - now <i>Area Chair:</i> ICLR 2025, 2024, ACL 2021, EMNLP 2020, 2021 <i>Reviewer:</i> NeurIPS, ICML, ICLR, ACL, EMNLP, NAACL, IJCNLP, CVPR, ECCV, SIGGRAPH, SIGGRAPH Asia, AAAI, IJCAI	
<b>Courses</b>  <i>Non-autoregressive Sequence Generation</i> Cutting-edge Tutorial, ACL 2022	May 22, 2022
<b>Organizer</b>  <i>Simultaneous Speech Translation Task</i> IWSLT 2020	

## Talks

<i>Towards Flexible, Scalable and Knowledgeable Generative Intelligence</i>	
New York University, guest lecture	Apr 16, 2024
University of Pennsylvania, guest lecture	Oct 16, 2024
<i>BOOT: data-free distillation of denoising diffusion models with bootstrapping</i>	
ICML 2023 Workshop on Structured Probabilistic Inference & Generative Modeling	Jul 28, 2023
<i>Towards Efficient Diffusion Models for 3D Generation</i>	
BIRS Workshop, 3D Generative Models, virtual talk	Jul 14, 2023
<i>Non-autoregressive Sequence Generation</i>	
ACL 2022 Tutorial ( <a href="https://nar-tutorial.github.io/acl2022/">https://nar-tutorial.github.io/acl2022/</a> )	May 22, 2022
<i>StyleNeRF: A style-based 3d-aware generator for high-resolution image synthesis</i>	
VALSE Webinar, virtual talk	Dec 29, 2021
<i>Multilingual Denoising Pre-training for Neural Machine Translation</i>	
Google Translate, virtual talk	Jul 17, 2020
ACL2020 WNGT Workshop, virtual talk	Jul 10, 2020
<i>Understanding Knowledge Distillation in Neural Sequence Generation</i>	
Tsinghua University, Beijing, China	Jan 03, 2020
Microsoft Translate, Redmond, WA, USA	Dec 04, 2019
<i>Non-autoregressive Neural Machine Translation</i>	
New York University, New York, NY, USA	Dec 19, 2017
Google Brain, Mountain View, CA, USA	Nov 20, 2017
<i>Learning to Share: towards Zero-Resource Neural Machine Translation without Pivots</i>	
Microsoft Research, Redmond, WA, USA	Jul 27, 2017
<i>Trainable Decoding for Neural Machine Translation</i>	
NYU Shanghai, Shanghai, China	Apr 14, 2017
<i>Learning to Translate in Real-time with Neural Machine Translation</i>	
Carnegie Mellon University, Pittsburgh, PA, USA	Oct 27, 2016
New York University, New York, NY, USA	Oct 19, 2016

## TEACHING EXPERIENCE

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### Teaching Assistant

Teaching Assistant, ELEC 2501/3541 S/W Engineering and O.S., HKU	Spring, 2015
Teaching Assistant, ELEC 3226/3442 Embedded System, HKU	Spring, 2016
Teaching Assistant, ELEC 3641 Human computer interaction, HKU	Spring, 2018

## MEDIA COVERAGE

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Reports mentioned **Matryoshka Diffusion**

<http://bit.ly/3SwDVuL> (Marktechpost)

Reports mentioned **Data2vec**

<https://bit.ly/3Gr3Vhq> (MIT Technology Review)

Reports mentioned **StyleNeRF: A 3D-Aware Generator for High-Resolution Image Synthesis**

<https://bit.ly/35OeT49> (SyncedReview)

Reports mentioned **Multilingual Fine-tuning of Extensible Multilingual Pretraining**

<https://bit.ly/3gpt01l> (Towards data science)

Reports mentioned **Multilingual Denoising Pre-training for Neural Machine Translation**

<https://bit.ly/3L8VpHp> (SyncedReview)

Reports mentioned **Levenshtein Transformer**

<https://zd.net/3sdVEIN> (ZDNET)

Reports on **Non-Autoregressive Neural Machine Translation**

<https://cnb.cx/3siXyHV> (CNBC)

<https://bit.ly/3GqC4hw> (VentureBeat)

Reports on **Learning to Translate in Real-time with Neural Machine Translation**

<https://bit.ly/3sgr5SL> (Slator)

## AWARDS & HONORS

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World's Top 2% Scientists (Single Year)	2023, 2022, 2021
IEEE CI HK FYP Competition and Graduate Student Paper Competition 2015/16, 2nd Runner-up	2016
HKPFS 2014/15 (Hong Kong PhD Fellowship Scheme) Award	2014
CSC Scholarship for Excellent Undergraduate Exchange Program	2012
National Endeavor Scholarship Award	2013, 2012, 2011

## PUBLICATIONS

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\*=equal contribution

## RECENT PREPRINTS

- [1] Georgia Gabriela Sampaio, Ruixiang Zhang, Shuangfei Zhai, **Jiatao Gu**, Josh Susskind, Navdeep Jaitly, and Yizhe Zhang. "TypeScore: A Text Fidelity Metric for Text-to-Image Generative Models". In: *arXiv preprint arXiv:2411.02437* (2024).
- [2] **Jiatao Gu**, Yuyang Wang, Yizhe Zhang, Qihang Zhang, Dinghuai Zhang, Navdeep Jaitly, Josh Susskind, and Shuangfei Zhai. "DART: Denoising Autoregressive Transformer for Scalable Text-to-Image Generation". In: *arXiv preprint arXiv:2410.08159* (2024).
- [3] Dinghuai Zhang, Yizhe Zhang, **Jiatao Gu**, Ruixiang Zhang, Josh Susskind, Navdeep Jaitly, and Shuangfei Zhai. "Improving GFlowNets for Text-to-Image Diffusion Alignment". In: *arXiv preprint arXiv:2406.00633* (2024).
- [4] Chen Wang, **Jiatao Gu**, Xiaoxiao Long, Yuan Liu, and Lingjie Liu. "GECO: Generative Image-to-3D within a SECOnd". In: *arXiv preprint arXiv:2405.20327* (2024).
- [5] Ying Shen, Yizhe Zhang, Shuangfei Zhai, Lifu Huang, Joshua M Susskind, and **Jiatao Gu**. "Many-to-many Image Generation with Auto-regressive Diffusion Models". In: *arXiv preprint arXiv:2404.03109* (2024).
- [6] Liangchen Song, Liangliang Cao, **Jiatao Gu**, Yifan Jiang, Junsong Yuan, and Hao Tang. "Efficient-NeRF2NeRF: Streamlining Text-Driven 3D Editing with Multiview Correspondence-Enhanced Diffusion Models". In: 2023.
- [7] Samira Abnar, Omid Saremi, Laurent Dinh, Shantel Wilson, Miguel Angel Bautista, Chen Huang, Vimal Thilak, Etai Littwin, **Jiatao Gu**, Josh Susskind, et al. "Adaptivity and Modularity for Efficient Generalization Over Task Complexity". In: *arXiv preprint arXiv:2310.08866*. 2023.

## CONFERENCES

- [1] **Jiatao Gu**, Ying Shen, Shuangfei Zhai, Yizhe Zhang, Navdeep Jaitly, and Joshua M Susskind. "Kaleido Diffusion: Improving Conditional Diffusion Models with Autoregressive Latent Modeling". In: *NeurIPS* (2024).
- [2] Zhuofeng Wu, He Bai, Aonan Zhang, **Jiatao Gu**, VG Vydiswaran, Navdeep Jaitly, and Yizhe Zhang. "Divide-or-Conquer? Which Part Should You Distill Your LLM?" In: *EMNLP* (2024).
- [3] Yizhe Zhang, He Bai, Ruixiang Zhang, **Jiatao Gu**, Shuangfei Zhai, Josh Susskind, and Navdeep Jaitly. "How Far Are We from Intelligent Visual Deductive Reasoning?" In: *COLM* (2024).
- [4] **Jiatao Gu**, Shuangfei Zhai, Yizhe Zhang, Lingjie Liu, and Joshua M Susskind. "BOOT: Data-free Distillation of Denoising Diffusion Models with Bootstrapping". In: *ICML*. 2024.

- [5] Tianrong Chen, **Jiatao Gu**, Laurent Dinh, Evangelos A Theodorou, Josh Susskind, and Shuangfei Zhai. “Generative Modeling with Phase Stochastic Bridges”. In: *ICLR*. 2024.
- [6] **Jiatao Gu**, Shuangfei Zhai, Yizhe Zhang, Josh Susskind, and Navdeep Jaitly. “Matryoshka Diffusion Models”. In: *ICLR*. 2024.
- [7] Jing Nathan Yan\*, **Jiatao Gu**\*, and Alexander Rush. “Diffusion Models Without Attention”. In: *CVPR*. 2024.
- [8] **Jiatao Gu**, Qingzhe Gao, Shuangfei Zhai, Baoquan Chen, Lingjie Liu, and Josh Susskind. “Learning Controllable 3D Diffusion Models from Single-view Images”. In: *3DV*. 2024.
- [9] Yizhe Zhang, **Jiatao Gu**, Zhuofeng Wu, Shuangfei Zhai, Josh Susskind, and Navdeep Jaitly. “PLANNER: Generating Diversified Paragraph via Latent Language Diffusion Model”. In: *NeurIPS*. 2023.
- [10] Hansheng Chen, **Jiatao Gu**, Anpei Chen, Wei Tian, Zhuowen Tu, Lingjie Liu, and Hao Su. “Single-Stage Diffusion NeRF: A Unified Approach to 3D Generation and Reconstruction”. In: *ICCV*. 2023.
- [11] Shuangfei Zhai, Tatiana Likhomanenko, Etai Littwin, Dan Busbridge, Jason Ramapuram, Yizhe Zhang, **Jiatao Gu**, and Joshua M Susskind. “Stabilizing Transformer Training by Preventing Attention Entropy Collapse”. In: *ICML*. 2023.
- [12] **Jiatao Gu**, Alex Trevithick, Kai-En Lin, Josh Susskind, Christian Theobalt, Lingjie Liu, and Ravi Ramamoorthi. “NerfDiff: Single-image View Synthesis with NeRF-guided Distillation from 3D-aware Diffusion”. In: *ICML*. 2023.
- [13] **Jiatao Gu**, Shuangfei Zhai, Yizhe Zhang, Miguel Angel Bautista, and Josh Susskind. “f-dm: A multi-stage diffusion model via progressive signal transformation”. In: *ICLR*. 2023.
- [14] Peiye Zhuang, Samira Abnar, **Jiatao Gu**, Alex Schwing, Joshua M Susskind, and Miguel Ángel Bautista. “Diffusion probabilistic fields”. In: *ICLR*. 2023.
- [15] Chen Huang, Hanlin Goh, **Jiatao Gu**, and Josh Susskind. “MAST: Masked Augmentation Subspace Training for Generalizable Self-Supervised Priors”. In: *ICLR*. 2023.
- [16] Ann Lee, Peng-Jen Chen, Changhan Wang, **Jiatao Gu**, Xutai Ma, Adam Polyak, Yossi Adi, Qing He, Yun Tang, Juan Pino, et al. “Direct speech-to-speech translation with discrete units”. In: *ACL*. 2022.
- [17] Sravya Popuri, Peng-Jen Chen, Changhan Wang, Juan Pino, Yossi Adi, **Jiatao Gu**, Wei-Ning Hsu, and Ann Lee. “Enhanced direct speech-to-speech translation using self-supervised pre-training and data augmentation”. In: *Interspeech*. 2022.
- [18] Ann Lee, Hongyu Gong, Paul-Ambroise Duquenne, Holger Schwenk, Peng-Jen Chen, Changhan Wang, Sravya Popuri, Juan Pino, **Jiatao Gu**, and Wei-Ning Hsu. “Textless Speech-to-Speech Translation on Real Data”. In: *NAACL*. 2022.
- [19] Alexei Baevski, Wei-Ning Hsu, Qiantong Xu, Arun Babu, **Jiatao Gu**, and Michael Auli. “Data2vec: A General Framework for Self-supervised Learning in Speech, Vision and Language”. In: *ICML*. 2022.
- [20] Yun Tang, Hongyu Gong, Ning Dong, Changhan Wang, Wei-Ning Hsu, **Jiatao Gu**, Alexei Baevski, Xian Li, Abdelrahman Mohamed, Michael Auli, et al. “Unified speech-text pre-training for speech translation and recognition”. In: *ACL*. 2022.
- [21] Zhuofeng Wu, Sinong Wang, **Jiatao Gu**, Rui Hou, Yuxiao Dong, VG Vydiswaran, and Hao Ma. “IDPG: An instance-dependent prompt generation method”. In: *ACL*. 2022.
- [22] Khalil Mrini, Shaoliang Nie, **Jiatao Gu**, Sinong Wang, Maziar Sanjabi, and Hamed Firooz. “Detection, disambiguation, re-ranking: autoregressive entity linking as a multi-task problem”. In: *ACL*. 2022.
- [23] **Jiatao Gu** and Xu Tan. “Non-autoregressive sequence generation”. In: *Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics: Tutorial Abstracts*. 2022, pp. 21–27.
- [24] **Jiatao Gu**, Lingjie Liu, Peng Wang, and Christian Theobalt. “StyleNeRF: A Style-based 3D-Aware Generator for High-resolution Image Synthesis”. In: *ICLR*. 2022.
- [25] Jiajun Shen, Peng-Jen Chen, Matt Le, Junxian He, **Jiatao Gu**, Myle Ott, Michael Auli, and Marc’Aurelio Ranzato. “The source-target domain mismatch problem in machine translation”. In: *EACL*. 2021.
- [26] Lingjie Liu, Marc Habermann, Viktor Rudnev, Kripasindhu Sarkar, **Jiatao Gu**, and Christian Theobalt. “Neural Actor: Neural Free-view Synthesis of Human Actors with Pose Control”. In: *SIGGRAPH ASIA*. 2021.
- [27] Lior Yariv, **Jiatao Gu**, Yoni Kasten, and Yaron Lipman. “Volume rendering of neural implicit surfaces”. In: *NeurIPS*. (oral). 2021.

- [28] Changhan Wang, Wei-Ning Hsu, Yossi Adi, Adam Polyak, Ann Lee, Peng-Jen Chen, **Jiatao Gu**, and Juan Pino. “fairseq S<sup>2</sup>: A Scalable and Integrable Speech Synthesis Toolkit”. In: EMNLP Demo track. 2021.
- [29] Yuqing Tang, Chau Tran, Xian Li, Peng-Jen Chen, Naman Goyal, Vishrav Chaudhary, **Jiatao Gu**, and Angela Fan. “Multilingual translation with extensible multilingual pretraining and finetuning”. In: ACL Findings. 2021.
- [30] Chunting Zhou, **Jiatao Gu**, Mona Diab, Paco Guzman, Luke Zettlemoyer, and Marjan Ghazvininejad. “Detecting Hallucinated Content in Conditional Neural Sequence Generation”. In: ACL Findings. 2021.
- [31] **Jiatao Gu**\* and Xiang Kong\*. “Fully Non-autoregressive Neural Machine Translation: Tricks of the Trade”. In: ACL Findings. 2021.
- [32] Xiang Kong, Adithya Renduchintala, James Cross, Yuqing Tang, **Jiatao Gu**, and Xian Li. “Multilingual Neural Machine Translation with Deep Encoder and Multiple Shallow Decoders”. In: *EACL*. 2021, pp. 1613–1624.
- [33] Changhan Wang, Kyunghyun Cho, and **Jiatao Gu**. “Neural machine translation with byte-level subwords”. In: *AAAI*. Vol. 34. 05. 2020, pp. 9154–9160.
- [34] Junxian He\*, **Jiatao Gu**\*, Jiajun Shen, and Marc’Aurelio Ranzato. “Revisiting self-training for neural sequence generation”. In: *ICLR*. 2020.
- [35] Maha Elbayad, **Jiatao Gu**, Edouard Grave, and Michael Auli. “Depth-adaptive transformer”. In: *ICLR*. 2020.
- [36] Chunting Zhou\*, **Jiatao Gu**\*, and Graham Neubig. “Understanding knowledge distillation in non-autoregressive machine translation”. In: *ICLR*. 2020.
- [37] Xutai Ma, Juan Pino, James Cross, Liezl Puzon, and **Jiatao Gu**. “Monotonic multihead attention”. In: *ICLR*. 2020.
- [38] Changhan Wang, Juan Pino, Anne Wu, and **Jiatao Gu**. “Covost: A diverse multilingual speech-to-text translation corpus”. In: *LREC*. 2020.
- [39] Changhan Wang, Juan Pino, and **Jiatao Gu**. “Improving Cross-Lingual Transfer Learning for End-to-End Speech Recognition with Speech Translation”. In: *Interspeech*. 2020.
- [40] Chau Tran, Yuqing Tang, Xian Li, and **Jiatao Gu**. “Cross-lingual retrieval for iterative self-supervised training”. In: *NeurIPS*. 2020.
- [41] Ebrahim Ansari, Nguyen Bach, Ondřej Bojar, Roldano Cattoni, Fahim Dalvi, Nadir Durrani, Marcello Federico, Christian Federmann, **Jiatao Gu**, Fei Huang, et al. “Findings of the IWSLT 2020 Evaluation Campaign”. In: Proceedings of the 17th International Conference on Spoken Language Translation. 2020, pp. 1–34.
- [42] Anne Wu, Changhan Wang, Juan Pino, and **Jiatao Gu**. “Self-supervised representations improve end-to-end speech translation”. In: *Interspeech*. 2020.
- [43] Arya D McCarthy, Xian Li, **Jiatao Gu**, and Ning Dong. “Addressing Posterior Collapse with Mutual Information for Improved Variational Neural Machine Translation”. In: *ACL*. 2020, pp. 8512–8525.
- [44] Lingjie Liu\*, **Jiatao Gu**\*, Kyaw Zaw Lin, Tat-Seng Chua, and Christian Theobalt. “Neural Sparse Voxel Fields”. In: *NeurIPS*. Vol. 33. (spotlight). 2020.
- [45] Saining Xie, **Jiatao Gu**, Demi Guo, Charles R Qi, Leonidas Guibas, and Or Litany. “PointContrast: Unsupervised pre-training for 3D point cloud understanding”. In: *ECCV*. Springer, Cham. 2020, pp. 574–591.
- [46] Xutai Ma, Mohammad Javad Dousti, Changhan Wang, **Jiatao Gu**, and Juan Pino. “Simuleval: An evaluation toolkit for simultaneous translation”. In: *EMNLP Demo Track*. 2020.
- [47] Hang Le, Juan Pino, Changhan Wang, **Jiatao Gu**, Didier Schwab, and Laurent Besacier. “Dual-decoder Transformer for Joint Automatic Speech Recognition and Multilingual Speech Translation”. In: *COLING*. 2020.
- [48] Jungo Kasai, James Cross, Marjan Ghazvininejad, and **Jiatao Gu**. “Non-autoregressive machine translation with disentangled context transformer”. In: *ICML*. PMLR. 2020, pp. 5144–5155.
- [49] Peng-Jen Chen, Ann Lee, Changhan Wang, Naman Goyal, Angela Fan, Mary Williamson, and **Jiatao Gu**. “Facebook AI’s WMT20 News Translation Task Submission”. In: *WMT*. 2020.
- [50] **Jiatao Gu**\*, Yong Wang\*, Kyunghyun Cho, and Victor OK Li. “Improved Zero-shot Neural Machine Translation via Ignoring Spurious Correlations”. In: *ACL*. 2019.
- [51] **Jiatao Gu**, Changhan Wang, and Jake Zhao. “Levenshtein Transformer”. In: *NeurIPS*. 2019.
- [52] Changhan Wang, Anirudh Jain, Danlu Chen, and **Jiatao Gu**. “VizSeq: A Visual Analysis Toolkit for Text Generation Tasks”. In: *EMNLP Demo Track*. 2019.

- [53] Juan Pino, Liezl Puzon, **Jiatao Gu**, Xutai Ma, Arya D McCarthy, and Deepak Gopinath. “Harnessing indirect training data for end-to-end automatic speech translation: Tricks of the trade”. In: IWSLT. 2019.
- [54] **Jiatao Gu**, Yong Wang, Kyunghyun Cho, and Victor OK Li. “Search Engine Guided Non-Parametric Neural Machine Translation”. In: AAAI. 2018.
- [55] **Jiatao Gu**, Daniel Jiwoong Im, and Victor OK Li. “Neural machine translation with gumbel-greedy decoding”. In: AAAI. 2018.
- [56] **Jiatao Gu**, James Bradbury, Caiming Xiong, Victor OK Li, and Richard Socher. “Non-Autoregressive Neural Machine Translation”. In: ICLR. 2018.
- [57] **Jiatao Gu**, Hany Hassan, Jacob Devlin, and Victor OK Li. “Universal Neural Machine Translation for Extremely Low Resource Languages”. In: NAACL. 2018.
- [58] **Jiatao Gu**, Yong Wang, Yun Chen, Kyunghyun Cho, and Victor OK Li. “Meta-learning for low-resource neural machine translation”. In: EMNLP. 2018.
- [59] **Jiatao Gu**, Graham Neubig, Kyunghyun Cho, and Victor OK Li. “Learning to translate in real-time with neural machine translation”. In: EACL. 2017.
- [60] **Jiatao Gu**, Kyunghyun Cho, and Victor OK Li. “Trainable greedy decoding for neural machine translation”. In: EMNLP. 2017.
- [61] Victor O. K. Li, Jacqueline C. K. Lam, Yun Chen, and **Jiatao Gu**. “Deep Learning Model to Estimate Air Pollution Using M-BP to Fill in Missing Proxy Urban Data”. In: GLOBECOM. 2017.
- [62] **Jiatao Gu**, Zhengdong Lu, Hang Li, and Victor OK Li. “Incorporating copying mechanism in sequence-to-sequence learning”. In: ACL. 2016.
- [63] **Jiatao Gu** and Victor OK Li. “Efficient Learning for Undirected Topic Models”. In: ACL Short. 2015.

#### JOURNALS

- [1] Peng Wang, Yuan Liu, Guying Lin, **Jiatao Gu**, Lingjie Liu, Taku Komura, and Wenping Wang. “ProLiF: Progressively-connected Light Field network for efficient view synthesis”. In: *Computers & Graphics* 120 (2024), p. 103913.
- [2] Yinhan Liu\*, **Jiatao Gu\***, Naman Goyal\*, Xian Li, Sergey Edunov, Marjan Ghazvininejad, Mike Lewis, and Luke Zettlemoyer. “Multilingual denoising pre-training for neural machine translation”. In: (2020).
- [3] **Jiatao Gu**, Qi Liu, and Kyunghyun Cho. “Insertion-based decoding with automatically inferred generation order”. In: (2019).
- [4] JQ James, Wen Yu, and **Jiatao Gu**. “Online vehicle routing with neural combinatorial optimization and deep reinforcement learning”. In: 20.10 (2019), pp. 3806–3817.
- [5] James Jian Qiao Yu and **Jiatao Gu**. “Real-time traffic speed estimation with graph convolutional generative autoencoder”. In: 20.10 (2019), pp. 3940–3951.
- [6] JQ James, David J Hill, Albert YS Lam, **Jiatao Gu**, and Victor OK Li. “Intelligent time-adaptive transient stability assessment system”. In: 33.1 (2017), pp. 1049–1058.

#### WORKSHOPS/UNPUBLISHED

- [1] Peng Wang, Yuan Liu, Guying Lin, **Jiatao Gu**, Lingjie Liu, Taku Komura, and Wenping Wang. “Progressively-connected Light Field Network for Efficient View Synthesis”. In: *arXiv preprint arXiv:2207.04465*. 2022.
- [2] Zhuofeng Wu, Sinong Wang, **Jiatao Gu**, Madian Khabisa, Fei Sun, and Hao Ma. “CLEAR: Contrastive Learning for Sentence Representation”. In: *arXiv preprint arXiv:2012.15466*. 2020.
- [3] Yong Wang, Xiao-Ming Wu, Qimai Li, **Jiatao Gu**, Wangmeng Xiang, Lei Zhang, and Victor OK Li. “Large Margin Meta-Learning for Few-Shot Classification”. In: *NeurIPS Meta-learning Workshop*. 2018.
- [4] **Jiatao Gu**, Baotian Hu, Zhengdong Lu, Hang Li, and Victor OK Li. “Guided Sequence-to-Sequence Learning with External Rule Memory”. In: *ICLR Workshop*. 2016.