Curriculum Vitae

Jing Chen

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Personal Information Born on 16 March, 1994 in Hubei Province, P.R. China.

Education Experience

- Division of Mathematical Sciences, School of Physical &
 Mathematical Sciences, Nanyan Technological University
 Sept. 2021 present
 - Research fellow
 - Advisor: Associate Prof. Ping Tong
- Department of Mathematical Sciences, Tsinghua University Aug. 2016 Jun. 2021
 - Doctor of Science in Mathematics, Tsinghua University
 - Advisor: Associate Prof. Hao Wu
- Visiting Ph.D Student in GFZ German Research Centre for Sept. 2018 Sept. 2019 Geosciences
 - Joint advisor: Senior Scientist Dr. Xiaohui Yuan
- Bachelor of Science in Mathematics, Tsinghua University

Jul. 2016

Research Interests

- Seismic Tomography
- Optimal Transport Problems
- Eikonal Equation Solver

Awards

- [1] "Zhao Fangxiong" Scholarship for PhD Candidate, Tsinghua University, 2021.
- [2] National Scholarship for PhD Candidate, Tsinghua University, 2020.
- [3] The Most Concerned Academic Paper in Beijing, Beijing Association for Science and Technology, 2019.
- [4] Excellent Youth Paper Award, China Society for Industrial and Applied Mathematics, 2017.
- [5] Excellent Youth Paper Award, Annual Meeting of Chinese Geoscience Union, 2017.

Academic Activities

• Conference Speeches and Posters

- [1] The Applied Math PhD Seminar, Fudan University, Shanghai, China, 2021. (contributed talk)
- [2] The 4th Youth Forum in the 18th Annual Meeting of CSIAM, Online, November, 2020. (contributed talk)
- [3] The 6th Doctoral Forum of Beijing for Computational Mathematics, Beijing University, Beijing, China, October, 2020. (contributed talk)
- [4] The European Geosciences Union General Assembly 2019, Vienna, Austria, April, 2019. (poster presentation)
- [5] Doctoral Forum of GFZ German Research Centre, Potsdam, Germany, March, 2019. (poster presentation)
- [6] The 2017 Annual Meeting of Chinese Geoscience Union Mini-symposium on "Topic 50. Seismic Wave Propagation and Imaging", Beijing, China, October, 2017. (contributed talk)
- [7] Youth Forum in the 15th Annual Meeting of CSIAM, Qingdao, China, October, 2017. (contributed talk & poster presentation)
- [8] Doctoral Forum of Tsinghua University, Sanbao, Beijing, China, March, 2017. (contributed talk)

• Conference Attended

- [1] The Workshop of Computational Geophysics and Partial Differential Equation Inverse Problems, Northwestern Polytechnical University (Online), November, 2020.
- [2] The Forum of Tsinghua University for Computational Mathematics and Operations Research, Tsinghua University, Beijing, China, November, 2020.
- [3] The 17th Annual Meeting of CSIAM, Foshan, China, September, 2019
- [4] The 2017 Annual Meeting of NSFC Key Project Computational Methods for Multiscale, Multi-physics Transport Problems in Hyperbolic Vehicles, Shanghai Jiao Tong University, Shanghai, China, May, 2017.
- [5] 2016 Workshop of Beijing-Tianjin-Hebei Society for Computational Mathematics, Tianjing, China, Sep. 2016.
- [6] Computational Seismology, Tsinghua Sanya International Mathematics Forum, Sanya, Hainan, China, Jan, 2016.

Publications

- [1] Qichen Liao, Jing Chen, Zihao Wang, Bo Bai, Shi Jin, and Hao Wu (2022). Fast Sinkhorn I: An O (N) algorithm for the Wasserstein-1 metric. Communications in Mathematical Sciences, 20 (7), 2053–2057. https://dx.doi.org/10.4310/CMS.2022.v20.n7.a11
- [2] Datong Zhou, Jing Chen, Hao Wu, Dinghui Yang, and Lingyun Qiu (2018). The Wasserstein-Fisher-Rao metric for waveform based earthquake location. arXiv:1812.00304
- [3] Jing Chen, Guoxu Chen, Hao Wu, Jiayuan Yao, and Ping Tong (2022). Adjoint Tomography of Northeast Japan Revealed by Common-Source Double-Difference Travel-Time Data. Seismological Research Letters, 93 (3) 18351851. https://doi.org/10.1785/0220210317

- [4] Jing Chen, Sofia-Katerina Kufner, Xiaohui Yuan, Benjamin Heit, Hao Wu, Dinghui Yang, Bernd Schurr, and Suzanne Kay (2020). Lithospheric delamination beneath the southern Puna plateau resolved by local earthquake tomography. Journal of Geophysical Research: Solid Earth, 125, e2019JB019040. https://doi.org/10.1029/2019JB019040
- [5] Jing Chen, Hao Jing, Ping Tong, Hao Wu, and Dinghui Yang (2020). The auxiliary function method for waveform based earthquake location. Journal of Computational Physics, 413, 109453. https://doi.org/10.1016/j.jcp.2020.109453
- [6] Jing Chen, Yifan Chen, Hao Wu, and Dinghui Yang (2018). The quadratic Wasserstein metric for earthquake location. Journal of Computational Physics, 373, 188-209. https://doi.org/10.1016/j.jcp.2018.06.066
- [7] Hao Wu, Jing Chen, Xueyuan Huang, and Dinghui Yang (2018). A new earthquake location method based on the waveform inversion. Communications in Computational Physics. 23(1), 118-141. https://doi.org/10.4208/cicp.OA-2016-0203