

CONTACT INFORMATION	<p>Department of Statistics University of British Columbia 3182 Earth Sciences Building 2207 Main Mall Vancouver, BC, Canada V6T 1Z4</p>	<p><i>E-mail:</i> <a href="mailto:qiong.zhang@stat.ubc.ca">qiong.zhang@stat.ubc.ca</a> <i>Tel:</i> +1 (778) 681-2643 <i>Github:</i> <a href="https://github.com/SarahQiong/">www.github.com/SarahQiong/</a> <i>Homepage:</i> <a href="https://sarahqiong.github.io/">https://sarahqiong.github.io/</a></p>
RESEARCH INTERESTS	Distributed Learning, Mixture Model, Optimal Transportation, Applications of Deep Learning	
EDUCATION	<p>UNIVERSITY OF BRITISH COLUMBIA 09/2017 – 05/2022 <i>Vancouver, British Columbia, Canada</i> <b>Ph.D. in Statistics.</b> GPA: 4.0/4.0 Supervisor: Professor <a href="#">Jiahua Chen</a></p> <p>UNIVERSITY OF BRITISH COLUMBIA 09/2015 – 09/2017 <i>Vancouver, British Columbia, Canada</i> <b>M.Sc. in Statistics.</b> GPA: 4.0/4.0 Supervisor: Professor <a href="#">Jiahua Chen</a> Thesis: <a href="#">Small Area Quantile Estimation under Unit-Level Models</a></p> <p>UNIVERSITY OF SCIENCE AND TECHNOLOGY OF CHINA 09/2011 – 06/2015 <i>Hefei, Anhui, China</i> <b>B.Sc. in Statistics, School of the Gifted Young.</b> GPA: 3.66/4.3</p>	
PUBLICATIONS	<p>PREPRINTS</p> <ul style="list-style-type: none"> <li>• <b>Qiong Zhang</b>, Archer Gong Zhang, and Jiahua Chen. “Gaussian Mixture Reduction with Composite Transportation Divergence.” Available at <a href="https://arxiv.org/abs/2002.08410">arXiv:2002.08410</a>.</li> </ul> <p>REFEREED PAPERS</p> <p>* denotes equal author contribution (shared first-authorship).</p> <ul style="list-style-type: none"> <li>• <b>Qiong Zhang</b> and Jiahua Chen. “Distributed Learning of Finite Gaussian Mixtures.” <i>Journal of Machine Learning Research</i> 23(99), 1-40, 2022.</li> <li>• <b>Qiong Zhang</b> and Jiahua Chen. “Minimum Wasserstein Distance Estimator under Finite Location-scale Mixtures.” Springer. In Press. <i>Advances and Innovations in Statistics and Data Science</i>. Editors: W. He, L. Wang, J. Chen and D. C. Lin.</li> <li>• <b>Qiong Zhang</b> and Jihua Chen. “Robustness of Gaussian Mixture Reduction for Split-and-Conquer Learning of Finite Gaussian Mixtures.” 3rd International Conference on Statistics: Theory and Applications (ICSTA), 2021.</li> <li>• <b>Qiong Zhang*</b>, Hanwen Liang*, Peng Dai, and Juwei Lu. “Boosting the Generalization Capability in Cross-Domain Few-shot Learning via Noise-enhanced Supervised Autoencoder.” <i>International Conference on Computer Vision (ICCV)</i>, 2021 (25.9% acceptance).</li> <li>• <b>Qiong Zhang*</b>, Xin Ding*, and William J Welch. “Classification Beats Regression: Counting of Cells from Greyscale Microscopic Images based on Annotation-free Training Samples.” <i>CAAI International Conference on Artificial Intelligence</i>, 2021 (34.5% acceptance).</li> <li>• Zhanshou Chen, Jiahua Chen, and <b>Qiong Zhang</b>. “Small Area Quantile Estimation via Spline Regression and Empirical Likelihood.” <i>Survey Methodology</i> 45(1), 81-99, 2019.</li> <li>• Philippe Phan, Brandon Budhram, <b>Qiong Zhang</b>, Carly S. Rivers, Vanessa K. Noonan, Tova Plashkes, Eugene K. Wai et al. “Highlighting Discrepancies in Walking Prediction Accuracy for Patients with Traumatic Spinal Cord Injury: An Evaluation of Validated Prediction</li> </ul>	

Models using A Canadian Multicenter Spinal Cord Injury Registry.” The Spine Journal, 19(4), 703-710, 2019.

- **Qiong Zhang\***, Bo Chang\*, Shenyi Pan, and Lili Meng. “Generating Handwritten Chinese Characters using CycleGAN.” In 2018 IEEE Winter Conference on Applications of Computer Vision (**WACV**), pp. 199-207. IEEE, 2018 (45.9% acceptance).

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TEACHING  
EXPERIENCE

TEACHING ASSISTANT, UNIVERSITY OF BRITISH COLUMBIA

*Held weekly labs and office hours, created and marked assignments and exams*

- STAT 201: Statistical Inference for Data Science 01/2022 – 04/2022
- STAT 404: Design and Analysis of Experiments 09/2021 – 12/2021
- STAT 305: Introduction to Statistical Inference 07/2021 – 08/2021
- STAT 251: Elementary Statistics 05/2021 – 06/2021
- STAT 300: Intermediate Statistics for Applications 01/2021 – 04/2021
- STAT 344: Sample Surveys 09/2020 – 12/2020
- STAT 302: Introduction to Probability 09/2019 – 04/2020
- STAT 461/561: Statistical Theory II 01/2019 – 04/2019
- STAT 306: Finding Relationships in Data 09/2018 – 12/2018
- STAT 200: Elementary Statistics for Applications 09/2015 – 04/2018

TEACHING ASSISTANT, UNIVERSITY OF SCIENCE AND TECHNOLOGY OF CHINA

*Held weekly TA office hours, marked assignments and exams*

- Linear Algebra (B1) 02/2015 – 06/2015
- Linear Algebra (B2) 09/2014 – 01/2015

OTHER

- Trainer for Teaching Assistant Program (UBC Statistics Department) 09/2019 – 09/2021
  - Instructional Skills Workshops 11/2019
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HONORS AND  
AWARDS

- Honorable mentions for the presentation award of 2nd Waterloo Student Conference in Statistics, Actuarial Science and Finance 2021
  - Winner of Statistical Society of Canada Annual Meeting Case Study 1 2019
  - Margaret Wylie Memorial Scholarship in Statistics 2017
  - International Doctoral Fellowship 2017 – 2021
  - Faculty of Science Graduate Award 2017 – 2021
  - CANSSI scholarship 2016
  - UBC International Tuition Award 2015 – 2021
  - USTC Outstanding Undergraduate Scholarship 2013/2014
  - USTC Outstanding Freshman Scholarship 2011
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TALKS &  
PRESENTATIONS

POSTER PRESENTATION

- 2021 Canadian Statistical Sciences Institute Showcase: Distributed Learning of Finite Gaussian Mixtures. 11/2021
- Statistical Society of Canada: Classification Beats Regression in Cell Counting from Microscopic Images. 06/2019
- Joint Statistical Meeting Data Expo: Do I Really Need A Jacket? 08/2018
- Winter Conference on Applications of Computer Vision: Generating Handwritten Chinese Characters using CycleGAN. 03/2018

TALKS

- 2nd Waterloo Student Conference of Statistics, Actuarial Science and Finance: Distributed Learning of Finite Gaussian Mixtures. 11/2021
- Joint Statistical Meeting: Distributed Learning of Finite Gaussian Mixtures. 08/2021
- 3rd International Conference on Statistics: Theory and Applications: Robustness of Gaussian Mixture Reduction for Split-and-Conquer Learning of Finite Gaussian Mixtures. 07/2021
- UBC/SFU Joint Student Seminar: Distributed Learning of Finite Gaussian Mixtures. 03/2021
- UBC/SFU Joint Student Seminar: Generating Handwritten Chinese Characters using CycleGAN. 03/2018
- Statistics Canada: Estimation of Small Area Means and Quantiles using EBLUP, Pseudo-EBLUP and M-quantile Approaches. 08/2016

PROFESSIONAL  
EXPERIENCE &  
ACTIVITIES

REVIEWER

- Journal of Machine Learning Research 2021 – present
- International Conference on Learning Representations (ICLR) 2021
- Neural Information Processing Systems (NeurIPS) 2019

ORGANIZER & CONFERENCE VOLUNTEER

- Constance van Eeden Lecture Organizer 2019 – 2020
- UBC/SFU Joint Student Seminar Organizer 2017 – 2019
- 2018 JSM-ICSA Volunteer 08/2018
- ICSA-Canada Chapter 2017 Symposium Volunteer 08/2017

INTERNSHIP

- Huawei Noah's Ark Lab, Markham, ON 05/2020 – 09/2020  
*Computer Vision Team*
- Rick Hansen Institute, Vancouver, BC 05/2017 – 08/2017
- Statistics Canada, Ottawa, ON 06/2016 – 08/2016  
*International Cooperation and Corporate Statistical Methods Division*

HARDWARE AND  
SOFTWARE SKILLS

Programming: Proficient with R, Python; some experience with C, Matlab, SAS  
Deep Learning API: Pytorch  
Office & Publishing: Microsoft Office, L<sup>A</sup>T<sub>E</sub>X