

List of presentations by Renjun Duan

Invited talks in conferences and workshops

1. Workshop on the Recent Progress of Kinetic Theory and Related Topics, Jan. 15-19, 2024, Tsinghua Sanya International Mathematics Forum (TSIMF), Sanya, China.
2. ICCM 2023 (45 minutes' talk), Jan. 2-5, 2024, Shanghai, China.
3. Workshop on Recent Advances in Kinetic Theory and Related Models, December 4-8, 2023, Beijing International Center for Mathematical Research, Peking University, China.
4. Workshop on Mathematical Theory of Fluid Dynamics and Applications, November 10-12, 2023, Beijing University of Technology, China.
5. 2023 HK-SZ Conference on Theory of PDEs, October 27-29, 2023, School of Mathematical Sciences, Shenzhen University, China.
6. Workshop on Mathematical Theories of Boundary Layers and Related Topics, October 19-22, 2023, Shanghai Jiao Tong University, China.
7. Minisymposia (00215): Mathematical Advances in the nonlinear PDEs from physics, 10th International Congress on Industrial and Applied Mathematics, Tokyo, August 20-25, 2023, Japan.
8. Partial Differential Equations in Fluid Dynamics (23w5066), August 6-11, 2023, Institute for Advanced Study in Mathematics, Hangzhou, China.
9. Workshop on Theory and Application of PDEs, July 7-9, 2023, Guangdong-Hong Kong-Macau Center for Applied Mathematics and Jishou University, China.
10. Modeling and Theory in PDEs, May 27 - 28, 2023, Xiamen University, China.
11. The 7th International Conference on Scientific Computing and Partial Differential Equations (SCPDE23), May 22-26, 2023, Hong Kong Polytechnic University, Hong Kong.
12. Advances in Kinetic and Related Models, Dec. 17-18, 2022, Huazhong University of Science and Technology, China.
13. Workshop on PDE Theory and its Applications, Dec. 10-12, 2022, Central China Normal University, China.
14. Online BIRS-CMO Workshop "Kinetic Equations: Recent Developments and Novel Applications", Oct. 30 – Nov. 4, 2022, Mexico.

15. 2022 Workshop on PDEs (online), Oct. 29-30, 2022, Guangxi University, China.
16. Conferences on PDEs, May 8, 2022, Southwest Jiaotong University, China.
17. Asia-Pacific Analysis and PDE Seminar, Mar. 28, 2022.
18. New advances in PDEs, Jan. 14-17, 2022, organized by Nantong University and Nanjing University, China.
19. FKTW02 - Frontiers in analysis of kinetic equations, Jan. 10-14, 2022, Isaac Newton Institute for Mathematical Sciences, University of Cambridge, UK.
20. 2021 PDE Workshop, Nov. 12-15, 2021, Xiamen University, China.
21. International conference on nonlinear PDE theory and applications, Oct. 27-31, 2021, Shanghai Jiao Tong University, China.
22. Workshop on Nonlinear PDEs in Fluid Mechanics and Advances in Relative Fields, Oct. 15-18, 2021, Zhejiang Normal University, China.
23. Webinar Kinetic and fluid equations for collective behavior, Oct. 15, 2021, French-Korean IRL in Mathematics, International Research Laboratory.
24. International Workshop on Recent Advances in Nonlinear PDE, Jun. 18-22, 2021, Nanjing University of Aeronautics and Astronautics, China.
25. The 1st Online Workshop for Nonlinear Partial Differential Equations, Feb. 22, 2021, organized by Tokyo Institute of Technology and Kobe University, Japan.
26. Online Workshop on Kinetic Models: Theory and Analysis (3), Feb. 3, 2021, organized by Shanghai Jiao Tong University and Tsinghua University, China.
27. Online Workshop on Mathematical Theory in Fluid Dynamics: Compressible Flow, Jan. 16-23, 2021, Dalian University of Technology, China.
28. (Online talk) International Conference on Mixed-type Partial Differential Equations and Optimal Transport Theory, Dec. 27-29, 2020, Capital Normal University, China.
29. (Online talk) Nonlinear Evolutionary Partial Differential Equations: Theories and Applications (NEPDE 2020), Dec. 1-4, 2020, Shanghai Jiao Tong University, China.
30. The 37th Kyushu Symposium on Partial Differential Equations, Jan. 27-29, 2020, Fukuoka, Japan. (*Trip cancelled*)
31. International Conference on PDEs in Fluids, Nov. 7-11, 2019, CAMIS, South China Normal University, Guangzhou, China.

32. Advances in Kinetic Theory, Oct. 14-18, 2019, Chongqing University, Chongqing, China.
33. PDE Workshop, Oct. 11-13, 2019, Nanjing University of Aeronautics and Astronautics, Nanjing, China.
34. Analysis and PDE, Oct. 7-9, 2019, Leibniz Universität Hannover, Hannover, Germany.
35. Recent Advances in Nonlocal Kinetic, Fluid and Diffusive PDEs, Aug. 19-23, 2019, Jeju, Korea.
36. 2019 TIANFU International Conference on PDEs, Jul. 8-10, 2019, Southwestern University of Finance and Economics, Chengdu, China.
37. International Conference on Modeling, Computations, Theoretical Analysis on Fluid Dynamics and Related Problems, Jun. 28-30, 2019, Northwest University, Xi'an, China.
38. The 8th International Congress of Chinese Mathematicians of 2019, 45-Minute Lecture, Jun. 9-14, 2019, Beijing, China.
39. Workshop on PDEs and Applications, Jan. 18-20, 2019, South China Normal University, Guangzhou, China.
40. Workshop on Nonlinear PDES, Dec. 13, 2018, Jinan University, Guangzhou, China.
41. PDE Workshop, Dec. 7-9, 2018, Beijing University of Technology, Beijing, China.
42. Workshop on Nonlinear PDEs, Nov. 30 – Dec. 2, 2018, Sun Yat-sen University, Guangzhou, China.
43. Workshop on nonlinear PDEs in fluid dynamics and applications, Nov. 16-19, 2018, Huaqiao University, Quanzhou, China.
44. 2018 PDE workshop in Hangzhou, Apr. 6-8, 2018, Zhejiang University, Hangzhou, China.
45. Workshop on Boltzmann and Dispersive Equations, Dec. 29-30, 2017, Central China Normal University, Wuhan, China.
46. Workshop on PDE programme, Nov. 25-26, 2017, Hua Loo-Keng Center for Mathematical Sciences, Beijing, China.
47. International Conference on Nonlinear Analysis: Kinetic Theory, Gas Dynamics, and Related Fields, Oct. 28-30, 2017, Institute of Mathematics, Academia Sinica, Taipei, Taiwan.
48. Workshop on Kinetic and Related Models, Oct. 25-26, 2017, City University of Hong Kong, Hong Kong.

49. Workshop on Hypocoercivity and Sensitivity Analysis in Kinetic Equations and Uncertainty Quantification, Oct. 2-6, 2017, University of Wisconsin-Madison, Wisconsin, USA.
50. TIANFU International Conference on Partial Differential Equations, Jun. 16-18, 2017, Southwestern University of Finance and Economics, Chengdu, China.
51. Mini-Workshop on PDEs and Its Applications, Sichuan University, June 18-19, 2017, Chengdu, China.
52. Workshop on Kinetic Models: Theory, Numerics and Analysis, Capital Normal University, May 27-29, 2017, Beijing, China.
53. The Annual General Meeting 2017, Hong Kong Mathematical Society, May 20, 2017, HKUST, Hong Kong.
54. The 4th Youth Academic Forum on PDEs, Mar. 10-12, 2017, South China University of Technology, Guangzhou, China.
55. Conference on Applied Analysis, Feb. 24-25, 2017, Jinan University, Guangzhou, China.
56. 2016 Young Researchers Workshop on Nonlinear PDEs Arising in Fluid Dynamics and Related Fields, Dec. 2-4, 2016, South China University of Technology, Guangzhou, China.
57. IMS PDE workshop, July 15-16, 2016, The Chinese University of Hong Kong, Hong Kong.
58. NSFC-RGC Young Scholar Forum, Southern University of Science and Technology, July 7-8, 2016, Shenzhen, China.
59. The 7th Pacific RIM Conference on Mathematics 2016, Session on Kinetic and related models, June 27 - July 1, 2016, Seoul National University, Seoul, Korea.
60. Workshop on the Boltzmann Equation, Microlocal Analysis and Related Topics, May 27-29, 2016, Kyoto University, Kyoto, Japan.
61. Workshop on PDEs, April 26-27, 2016, Nanjing University of Aeronautics and Astronautics, Nanjing, China.
62. Workshop on Nonlinear PDEs, January 11, 2016, City University of Hong Kong, Hong Kong.
63. The Workshop on Partial Differential Equations and Applications, October 8-10, 2015, Jinan University, Guangzhou, China.
64. Workshop on PDE Problems Arising From Biology and Related Area, August 18-19, 2015, The Hong Kong Polytechnic University, Hong Kong.

65. Workshop on Kinetic and Related Equations, July 5-10, 2015, The Casa Matemática Oaxaca (CMO), Oaxaca, Mexico.
66. The 4th International Conference on Nonlinear Evolutionary Partial Differential Equations — Theories and Applications, June 2-7, 2015, Shanghai Jiao Tong University, Shanghai, China.
67. The 8th International Conference on Nonlinear PDEs & Their Numerical Analysis, May 25-28, 2015, Hangzhou, China.
68. Workshop on Applied Analysis, Feb. 24-25, 2015, City University of Hong Kong, Hong Kong.
69. The International Conference on Applied Analysis, Jan. 9-10, 2015, Jinan University, Guangzhou, China.
70. Workshop on PDE, IP and IS, Jan. 1-3, 2015, Sun Yat-sen University, Guangzhou, China.
71. International Conference on Recent Advances in Hyperbolic Partial Differential Equations, Dec. 4-6, 2014, Hiroshima, Japan.
72. The Fourth Joint China-Australia Conference on Nonlinear Partial Differential Equations and Related Topics, Nov. 27-30, 2014, IMS, CUHK, Hong Kong.
73. XV International Conference on Hyperbolic Problems: Theory, Numerics and Applications (HYP2014), Jul. 28 – Aug. 1, 2014, IMPA, Rio de Janeiro, Brazil.
74. Yunnan MS-HKMS Joint Annual Meeting, July 19-20, 2014, Lijiang, China.
75. The International Conference on Nonlinear Evolutionary Partial Differential Equations -Theories and Applications, Jun. 3-8, 2014, Shanghai Jiao Tong University, Shanghai, China.
76. IMS Workshop on Nonlinear PDEs from Fluids and Related Topics, Mar. 24-26, 2014, CUHK, Hong Kong.
77. Workshop on the recent progress of the Boltzmann equation, Mar. 15-16, 2014, Tsinghua University, Beijing, China.
78. The SJTU International Forum on Mathematics, Jan. 10-12, 2014, Shanghai Jiao Tong University, Shanghai, China.
79. Joint Workshop on Partial Differential Equations, Nov. 15-18, 2012, Shanghai Jiao Tong University, Shanghai, China.

80. Workshop on “PDE Problems in Mathematical Biology and Physics”, Jun. 22-23, 2012, The Hong Kong Polytechnic University, Hong Kong.
81. Workshop on Kinetic and Related Models, Mar. 8-10, 2012, Jinan University, Guangzhou, China.
82. The ninth nonlinear PDE workshop, Jul. 29-30, 2011, Sun Yat-Sen University, Guangzhou, China.
83. Conference on Kinetic Theory and Related Fields, Jun. 22-24, 2011, Pohang University of Science and Technology, Pohang, Korea.
84. Workshop on Applied Mathematics, Jun. 5, 2011, Wuhan University, China.
85. Austrian-Chinese Workshop on Dissipative Systems: Kinetic Theory and Semiconductor Applications, Nov. 3-5, 2010, Vienna University of Technology, Vienna, Austria.
86. Workshop on Kinetic and Related Models, Oct. 15-19, 2010, Northwest University, Xi’an, China.
87. The 6th Conference “Topics in Nonlinear Problem”, Sep. 16-18, 2010, Yamaguchi University, Yamaguchi, Japan.
88. Concentration en vitesse et en espace dans les modèles cinétiques et diffusifs (chemotaxis, gravitation, swarming), Oct. 6-7, 2009, Institut Henri Poincaré and Ecole Normale Supérieure, Paris, France.
89. Modern Topics in Nonlinear Kinetic Equations, Apr. 20-22, 2009, University of Cambridge, Cambridge, UK.
90. Kinetic modelling for socio-economic and related problems, Nov. 27-29, 2008, Vigevano, Italy.
91. Second Workshop on Nonlinear Partial Differential Equations: Analysis, Computation and Application, May 31 – Jun. 2, 2007, Seoul National University, Seoul, Korea.
92. International Conference on Conservation Laws & Kinetic equations, Dec. 7-12, 2006, Shanghai Jiao Tong University, Shanghai, China.

Talks in organized sessions

93. Session FM03 on “Mathematical Theory in Fluid Mechanics”, The 17th Annual Conference of China Society for Industrial and Applied Mathematics, Sep. 19-22, 2019, Foshan, China.

94. Session on “Partial Differential Equations in Fluid Dynamics”, The 9th International Congress on Industrial and Applied Mathematics - ICIAM 2019, Jul. 15-19, 2019, Valencia, Spain.
95. Session on “System of Conservation Laws and Related Models”, The 8th international Congress on Industrial and Applied Mathematics, Aug. 10-14, 2015, Beijing, China.
96. Session on “Qualitative behavior of PDEs in fluid mechanics and related topics”, The 10th International Society for Analysis, its Applications and Computation, Aug. 3-8, 2015, University of Macau, Macao.
97. The Hong Kong Mathematical Society Annual General Meeting 2014, Jun. 6, 2014, Hong Kong.
98. The 12th Annual Conference of China Society for Industrial and Applied Mathematics, Aug. 19-24, 2012, Hefei, China.
99. The 4th MSJ-SI (Mathematical Society of Japan, Seasonal Institute) Nonlinear Dynamics in Partial Differential Equations Sep. 12-21, 2011, Kyushu University, Fukuoka, Japan.
100. International Conference on Nonlinear Evolutionary Partial Differential Equations – Theories and Applications (NEPDE), Jan. 10-15, 2011, Shanghai Jiao Tong University, Shanghai, China.
101. Thirteenth International Conference on “Hyperbolic Problems: Theory, Numerics and Applications”, HYP2010, Jun. 15-19, 2010, Beijing, China.

Contributed talks in conferences and workshops

102. The seventh International Congress of Chinese Mathematicians (ICCM), August 6-11, 2016, Beijing, China.
103. The Sixth International Congress of Chinese Mathematicians (ICCM), July 14-19, 2013, Taipei.
104. The Fourteenth International Conference on Hyperbolic Problems: Theory Numerics and Applications, Jun. 25-29, 2012, University of Padova, Padova, Italy.
105. The 8th East-Asia PDE Conference, Dec. 19-22, 2011, POSTECH, Korea.
106. Joint SIAM/RSME-SCM-SEMA Meeting “Emerging Topics in Dynamical Systems and Partial Differential Equations”, DSPDEs’10, May 31 – Jun. 4, 2010, Barcelona, Spain.
107. Workshop “Theory and Numerics for Kinetic Equations”, Nov. 16-18, 2009, Saarland University, Saarbrücken, Germany.

- 108. Workshop on “Kinetics and statistical methods for complex particle systems”, July 20-24, 2009, Complexo Interdisciplinar da Universidade de Lisboa, Lisbon, Portugal.
- 109. Twelfth International Conference on “Hyperbolic Problems: Theory, Numerics, Applications”, Jun. 9-13, 2008, University of Maryland, College Park, USA.
- 110. Fourth Pacific Rim Conference on Mathematics, Dec. 7-11, 2007, City University of Hong Kong, Hong Kong.

Lecture series

- 111. *Introduction to the Boltzmann equation*, Online lectures in 19th PDE Summer School, Aug. 2-20, 2021, Harbin Engineering University, China.
- 112. *Global well-posedness for the non-cutoff Boltzmann equation*, Online lectures in POSTech, Dec. 7, 2020, Pohang, South Korea.
- 113. *Global well-posedness for the non-cutoff Boltzmann equation*, Tianyuan Mathematical Center in Central China, Dec. 10-11, 2019, Wuhan, China.
- 114. *Mini-course on Kinetic Equations*, South China University of Technology, Dec. 4-7, 2018, Guangzhou, China.
- 115. *A Short Introduction to the Boltzmann Equation*, Capital Normal University, Jan. 17-20, 2018, Beijing, China.
- 116. *Dissipative structure of the Boltzmann equation*, Beijing University of Technology, July 21, 2013, Beijing, China.
- 117. *Decay structure of the Boltzmann equation*, Pohang University of Science and Technology, May 27 – June 9, 2013, Korea.