

# Rui Xiong

熊锐; Pinyin: Xióng Ruì.



## Personal Information

- **First Name** Rui
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## Degrees

- **B.Sc.** 2019, SHANDONG UNIVERSITY, CHINA  
Thesis Title: 关于群行列式 (*On the theory of group determinants*)  
Supervisor: Shoumin Liu
- **M.Sc.** 2021, SAINT PETERSBURG STATE UNIVERSITY, RUSSIA  
Thesis Title: *Comodule Structure of Chow Rings of Flag Varieties*  
Supervisor: Victor Petrov

## Publications

- [1] 集合论、拓扑与代数初步 (*An introduction to set theory, topology and algebra*).  
Shoumin Liu and Rui Xiong, Tsinghua University Press. ISBN: 9787302541646.

## Preprints

- [2] *Equivariant log-concavity and equivariant Kähler packages*.  
Tao Gui and Rui Xiong [arXiv:2205.05420] [math.CO](#) [math.AG](#)
- [3] *Pieri and Murnaghan–Nakayama type Rules for Chern classes of Schubert Cells*. (submitted)  
Neil J.Y. Fan, Peter L. Guo and Rui Xiong [arXiv:2211.06802] [math.CO](#) [math.AG](#)
- [4] *Structure algebras, Hopf algebroids and oriented cohomology of a group*. (submitted)  
Martina Lanini, Rui Xiong and Kirill Zainoulline [arXiv:2303.02409] [math.AG](#) [math.RT](#) [math.CO](#)
- [5] *Automorphisms of the Quantum Cohomology of the Springer Resolution and Applications*. (submitted)  
Changzheng Li, Changjian Su and Rui Xiong [arXiv:2304.07173] [math.AG](#) [math.RT](#) [math.CO](#)
- [6] *Bumpless pipe dreams meet puzzles*. (submitted)  
Neil J.Y. Fan, Peter L. Guo and Rui Xiong [arXiv:2309.00467] [math.CO](#) [math.AG](#)
- [7] *On the Peterson subalgebra and its dual*  
Rui Xiong, Changlong Zhong and Kirill Zainoulline [arXiv:2312.03965] [math.RA](#) [math.AG](#)
- [8] coming soon ...

## L<sup>A</sup>T<sub>E</sub>X

- [9] The L<sup>A</sup>T<sub>E</sub>X package TooYoung. (Github: CubicBear/TooYoung)

## Research Areas

Algebraic Combinatorics. Enumerative Geometry.

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