

Jian Liu | CV

School of Mathematical Sciences, University of Science and Technology of China
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Research Interests

My research interests are commutative algebras, derived categories and representation theory of finite dimensional algebras.

Education

- **University of Science and Technology of China** **Hefei, China**
Ph.D. in Mathematics. Advisor: Xiao-Wu Chen *September 2016 –*
- **Northeast Normal University** **Changchun, China**
B.S. in Mathematics. Advisor: Xianhui Fu *September 2012 – June 2016*

Research Experiences

- **University of Utah** **Salt Lake City, USA**
Joint Ph.D. student. Advisor: Srikanth Iyengar *August 2019 – October 2020*

Publications

- [2] Xiao-Wu Chen, Jian Liu, and Ren Wang, *Singular equivalences induced by bimodules and quadratic monomial algebras*, arXiv:200909365, submitted.
- [1] Jian Liu and Josh Pollitz, *Duality and symmetry of complexity over complete intersections via exterior homology*, to appear in Proceedings of the American Mathematical Society.

Awards

- **Chinese Government Scholarship** **University of Science and Technology of China**
This award is to support graduate students to study abroad for one or two years. *June 2019*
- **National Scholarship** **Northeast Normal University**
This is awarded annually in the University with few awards in each school. *October 2014*

Teaching

Teaching Assistant, *University of Science and Technology of China, Hefei, China.*

- *Linear Algebra A2*, lecture: Xiao-Wu Chen, September 2018–January 2019.
- *Linear Algebra A1*, lecture: Xiao-Wu Chen, February 2018–June 2018.
- *Elements of Algebra*, lecture: Xiao-Wu Chen, September 2017–January 2018.
- *Complex Analysis*, lecture: Luo Luo, February 2017–June 2017.

Talks

Invited Talks.....

- **Duality of thick subcategories over complete intersections**

Algebra Seminar, Northeast Normal University, November 6 2020.

Student Seminar.....

- **Virtually small complexes and complete intersections**

Algebra Seminar, University of Science and Technology of China, December 2020.

- **Kahler differentials and the Hochschild cohomology ring**

Algebra Seminar, University of Utah, October 13 2020.

- **Classifying thick subcategories of the singularity category over a hypersurface**

Algebra Seminar, University of Utah, February 20 2020.

- **Support varieties and cohomology over complete intersections**

Algebra Seminar, University of Utah, June 20 2020.

- **Local cohomology modules-various definitions**

Algebra Seminar, University of Utah, June 20 2020.

- **Koszul duality patterns in representation theory**

Algebra Seminar, University of Science and Technology of China, March 2019.

- **The singularity category over Gorenstein rings**

Algebra Seminar, University of Science and Technology of China, January 2018.

Conferences Attended

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| ○ DG Methods in Commutative Algebra and Representation Theory | University of Utah |
| <i>Participant via Zoom, Salt Lake City, Utah, USA</i> | <i>May 2 and 3, 2020</i> |
| ○ The 20th National Conference on Representation theory of Algebras | Nanjing University |
| <i>Participant, Nanjing, Jiangsu Province, China.</i> | <i>June 21 2018 – June 26 2018</i> |
| ○ The 19th National Conference on Representation theory of Algebras | Huaqiao University |
| <i>Participant, Quanzhou, Fujian Province, China.</i> | <i>November 08 2017 – November 12 2017</i> |
| ○ Workshop on Groups and Algebras | Southern University of Science and Technology |
| <i>Participant, Shenzhen, Guangdong Province, China.</i> | <i>July 16 2017 – August 11 2017</i> |